FRULLANIA
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Frullania species
Distribution + Bibliography

Gerhard Winter

Extract from my database

This is a working document in progress

acicularis Hentschel & von Konrat 2015 1958

Subgenus: Frullania

Basionym: Frullania tamarisci var. azorica Frahm 2006

Distribution: Azores (Terceira, Pico) [Portugal]

		0		
nom nov	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 134 (nom. nov. pro Frullania tamarisci var. azorica J.-P.Frahm 2006).
	Polaino-Martin et al	2020	5701	Arquipelago - Life and Marine Sciences 37: 16, fig 4 [Azores]

aculeata Taylor 1846 82

Subgenus: Meteoriopsis Intumescentes

Typus: Ecuador. Galapagos Isl. Charles Isl. [lectotype] - Ecuador, Cuenca [paralectotype] 1835, Darwin sn [lectotype] - sd, Jameson sn [paralectotype]

in hb FH sn [lectotypus]
n hb BM 664354, MANCH cc16072 [isolectotypus]
in hb FH sn [paralectotypus]
in hb E E00002513 (Ecuador:Galapagos Islands:Charles Island) [isosyntypus ?]

Basionym:

Distribution: Panama, Ecuador, Galapagos Isls (Floreana, Santa Cruz, Pinzón) [Ecuador], Chile

spec nov	Taylor	1846	292	London J Bot 5: 407 (No 16)
	Taylor in G., L. & N.	1847	2848	Syn Hepat: 785 (No 118b)
	Hampe	1854	284	Linnaea 27: 555 [Chile / Peru]
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 38 & 41 (No 30)
	Jack & Stephani	1892	1089	Hedwigia 31: 13 [Peru, Neu-Granada]
	Evans	1902	665	Proc Amer Acad Sci 38(4): 100 [Galapagos Isl., Floreana, as Jungermannia pungens]
	Stephani	1911	686	Spec Hepat 4: 604-605
	Clark	1953	1106	Proc California Acad Sci 4 ser, 27 (18): 661 [Galapagos Isls: Pinzón, Floreana, San Cristobal, Santa Cruz]
	Bartram & Arnell	1961	932	Bryologist 64: 248 [Galapagos Isls: Santa Cruz, Pinzón]
	Arnell	1962	449	Svensk Bot Tidskr 56 (2): 341 [Ecuador]
	Bonner	1965	655	Index Hepat 5: 224
	Long	1978	0	note in hb E. "probobly isosyntype - leg. C. Darwin ?"
	Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 3 Galapagos Isls]
	Menzel	1984	142	Willdenowia 14: 488 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-10, microfiche 55 fig 3778 ["Peru - Tatanara, leg Lechler"] - 3779
	Kron	1988	510	J Hatt Bot Lab 64: 355-356, fig 5(d-e) [key]
	Gradstein in Zizka & Klemmer	1994	1118	Kl Senckenbergreihe 20: 60, fig 50 [not fig 49] [Galapagos]
	Uribe & Gradstein	2003	1071	Crypt Bryol 24 (3): 200, fig 3(a-h)
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 148 [Galapagos Isl, Note: abundant in moist habitats above 400 m.]
	Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 20 [Ecuador]
	Schäfer-Verwimp	2018	5040	Journal of Bryologie [DOI] [Panama]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 358 fig. 36a,b [key -Ecuador, may be Colombia, not in Peru]

acutata Caspary 1887 2238

Subgenus:

Typus: Fossil. Inclusion in Amber, Eocene

Basionym:

Distribution: Fossil (Eocene) in Baltic amber, Germany

spec nov	Caspary	1887	977	Schriften phys-ökonom Gesell Königsberg 27: 5, pl 1 fig 23-24
	Caspary & Klebs	1907	622	Abh königl Preuß Geol Landesanstalt, NF 4: 39-40, Atlas fig 32(a-e)
	Grolle	1985	621	Prace Muz Ziemi z 37: 90, fig 2(a-b)
	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 17, pl. 4(g-h)

affinis Nees & Mont. 1843 93

Subgenus: Incertae sedis

Typus: Bourbon insula [in insula Mascarena], ad muscos

hb RICHARD & MONTAGNE

Basionym:

Distribution: East Africa, ? Madagascar, ? Mauritius, ? Reunion, Mascarenes, South Africa

	Montagne	1843	470	Ann Sci Nat Bot, ser 2, 19: 257 (No 38)
spec nov	Nees & Montagne in Montagne	1843	470	Ann Sci Nat Bot, ser 2, 19: 257
	Nees in G., L. & N.	1845	2850	Syn Hepat: 430 (No 42)
	Montagne	1856	1912	Sylloge generum specierumque cryptogamaram: 86
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Mascareignes]
	Stephani	1910	686	Spec Hepat 4: 374
	Sim	1926	252	Trans Roy Soc S Africa 15: 43-44, fig [South Africa].
syn nov	Arnell	1963	822	Hepat S Africa: 138 [may be Fr. ecklonii]
	Bonner	1965	655	Index Hepat 5: 227
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 13 [nom dubium; may be Fr trinervis]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 2, microfiche 49 fig 3349 ["... original, Mauritius, Robillard"]
	Grolle	1995	250	Bryophyt Bibl 48: 146 [afr3, dubium, ? syn with Fr. ecklonii, vide Arnell 1963: 138]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 28 [Dubia for Africa] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Hentschel et alii	2015	4097	Phytokeys 59: 293 [Frullania affinis is possibly conspecific with Frullania ecklonii (Arnell 1963b)]

akiyamae S.Hatt. 1986 167

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia, Seram, Manusela N.P. Mt Roihelu Sawai 26.1.1885, H. Akiyama 10675, further H. Akiyama 9864 & H. Akiyama 9865

in hb NICH 401638 (26.1.1885, H. Akiyama 10675) [holotypus]
in hb KYO [isotypus]

Basionym:

Distribution: Indonesia (Ceram), Borneo

spec nov	Hattori	1986	507	J Hatt Bot Lab 60: 240-241, fig. 1 [holotype]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 20: Holotype. Seram 1., Hatumete.1430 m. 21 Feb. 1985. H. Akiyama 10675 (NICH 401638).

allanii E.A.Hodgs. 1949 386

Subgenus: Trachycolea Acutilobae

Typus: New Zealand: Wairoa,Rotonui -.4.1934, E.A. Hodgson 3944 [lectotype]

in hb MPN (ex hb HODGSON)

Basionym:

Distribution: Australia (QLD), New Zealand

spec nov	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 371-372, fig. 8
	Bonner	1965	655	Index Hepat 5: 227
	Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]
	Hattori	1979	486	J Hatt Bot Lab 46: 119-122, fig 28(a-k) from lectotype, 29(a-k) from specimen of Australia
	Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Australia: QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1988	429	Nova Hedwigia Beih 90:147 [Australia: QLD]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 41 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 4th of 6 pages [Key to Frullania of New Zealand]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]

alstonii Verd. 1930 389

Subgenus: Frullania

Typus: Sri Lanka: Hakgala, 6000-7000 ft 1925, Alston

Basionym:

Distribution: China (Hainan), Sri Lanka, Thailand, Vietnam, Malaysia (Johor, Sabah), Borneo, Philippines (Luzon)

spec nov	Verdoorn	1930	293	Ann Bryol Suppl 1: 76, fig. 110
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 58 [China, Malay Peninsula]
	Verdoorn	1934	240	Ann Bryol Suppl 4: 196-197
	Herzog & Noguchi	1955	859	J Hatt Bot Lab 14: 43 [Taiwan = Fr. densiloba]
	Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
	Bonner	1965	655	Index Hepat 5: 228
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Hattori	1972	538	J Hatt Bot Lab 36: 119-120, fig. 7
	Hattori	1974	544	J Hatt Bot Lab 38: 169-171, fig. 1 [Luzon]
	Hattori	1976	80	J Hatt Bot Lab 40: 470
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 441 [Thailand]
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Hsu	1979		Index of bryol list China (134 p.)
	Onraedt	1981	5794	J Hatt Bot Lab 50: 201 [Sri Lanka]
	Wu et alii	1984		A glossary of terms and names of bryophytes. Peking [124 p.]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 159 [distinct to Fr. punctata]
	Menzel	1988	512	J Hatt Bot Lab 56: 163 [Cat Borneo]
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 67 [China, Hainan]
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 272-273, map 11 - Unpublished thesis.
	Pocs & Ninh	2005	1398	Acta Bot Hungarica 47 (1-2):154 [Vietnam (Vu Quang Nature Reserve)]
	Chantanaorrapint	2010	2339	Thesis; Epiphytic bryophytes in Southern Theiland, p. 50 [Thailand]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 85-86, fig 40(a-e) [checklist & revision of genus Fullania, Thailand]

alternans Nees 1845 393

Subgenus: Incertae sedis

Typus: Norfolk Isl

Basionym:

Distribution: Norfolk Isl

spec nov	Nees in G., L. & N.	1845	2850	Syn Hepat: 430 (No 41)
	Stephani	1910	686	Spec Hepat 4: 411-412
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Bonner	1965	655	Index Hepat 5: 228
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 120

amamiensis Kamim. 1968 394

Subgenus: Trachycolea

Typus: Kagoshima pref: Isl. Amami-oshina, Mt. Yuwandake, ca. 300-500m, Hab. on bark of tree Aug 25, 1955, T. Shin a in hb NICH (type)

Basionym:

Distribution: Japan, Ryukyu (Amami)

		0		not in Taiwan
spec nov	Kamimura	1968	1554	Bulletin of Kochi Gakuen Junior College 1: 51-53, fig. 1(a-y)
	Shin	1970	150	Sci Rep Kagoshima Univ 19: 25 [Ryukyu: Amami Isl]
	Hattori	1982	133	J Jap Bot 57 (11): 330 [might be conspecific with Fr. caduca]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 2-6, fig 1(a-s) & 2(a-r) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 28 [Catalog of Japan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

amazonica E. Lima, Ilk.-Borg. & Gradst. 2020 2510

Subgenus: Frullania Microphyllae

Typus: Brazil, Roraima: Amajari, “Serra de Tepequem, planalto das Guianas, trilha para a Cachoeira Barata, mata de galeria, sobre tronco vivo”, 3°48’14” N, 61°45’10” W, 576 m 8 Sept 2017, D. F. Peralta et al. 21634

holotype: SP482832; isotype: MG; paratype cited

Basionym:

Distribution:

spec nov	Lima, Ilkiu-Borges & Gradstein	2020	Phytotaxa 456(1): 120.

ambronnii Steph. 1916 395

Subgenus: Meteoriopsis Intumescentes

Typus: Bolivia: Tablas, 2000 m 1911, Herzog 4536

in hb G G00066976 - n° SIB 125006/1 - G13583 (Bolivia, Herzog 4536) [typus]
in hb G G00128073 - n° SIB 143809/6 - G13584 (Bolivia, Herzog 4569, dioica c per) [typus]

Basionym:

Distribution: Bolivia, Colombia]

spec nov	Stephani	1916	222	Biblioth Bot 87: 242-243, fig 193 [Bolivia]
	Stephani	1924	687	Spec Hepat 6: 544 [as spec nov]
	Bonner	1965	655	Index Hepat 5: 229
	Stotler	1969	4761	Nova Hedwigia 18: 472-473, pl. 36(304-310)(:551)
	Stotler	1970	194	The genus Frullania, separata: 472-473, pl. 36(304-310)(:551)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-12, microfiche 55 fig 3782 ["Bolivia, Herzog 4536"] - 3783
	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 134, (G-00066976, lectotype here designated).
	Gradstein	2021	5642	Mem NY Bot Gard 121: 358 [key -Colombia]

amplicrania Steph. 1910 396

Subgenus: Trachycolea

Typus: Japan. Kinki, Kamitsuge 13.5.1899, Faurie 362

in hb G G00066977 - n° SIB 125272/1 [holotypus]
in hb TNS (Sikoku, Prov Iyo: Onsen-gun, Miuchi-mura (Okudaira, -.4.1890) [isotypus]

Basionym:

Distribution: China (Zhejiang, Fujian), Taiwan, Japan, Ryukyu (Amami, Okinawa, Tokunoshima)

nom nud	Stephani ex Yoshinaga	1901	889	Bot Mag Tokyo 15: 92
nom nud	Stephani in Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 22 [key to Japanese species, in Japanese]
spec nov	Stephani	1910	686	Spec Hepat 4: 404
	Iishiba	1912	888	Bot Mag Tokyo 26: 35 [Japan, with key in Japanese]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 141-142, fig. 87(a-m) [Japan, key to Japanese species]
	Hattori	1951	528	J Hatt Bot Lab 5: 62
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 122
	Hattori	1952	529	J Hatt Bot Lab 8: 28-29
- comb nov	Iwatsuki & Hattori	1956	861	J Hatt Bot Lab 16: 87
	Hattori & Noguchi	1960	965	Index spec Typ herb Japon, Bryophyta: 16 [isotypus]
	Inoue	1961	964	J Jap Bot 36(5): 187 [Formosa]
	Kamimura	1961	199	J Hatt Bot Lab 24: 15-17, fig. 4(20-36) [key to Japanese species]
	Nakanishi	1963	960	Hikobia 3(4): 321 [Taiwan]
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 203 [Ryukyu Arch.]
	Shin	1970	150	Sci Rep Kagoshima Univ 19: 25 [Ryukyu: Amami Isl]
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 37 [Ryukyu: Okinawa]
	Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 331, pl 45 [712]
	Iwatsuki & Mizutani	1972		: 331 /aus 948
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 117-120, fig 60(c-h) [Central Japan]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Hattori	1980	130	J Jap Bot 55 (5): 132 [Ryukyo]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 253 [Japan]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-228, microfiche 53 fig 3646 ["Japan, Koinitsuge, Faurie 362"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 131 [China]
	Kuo & Chiang	1988	948	Taiwania 33: 11 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
	Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
	Hasegawa	1998	880	Bull Fac Horticult Minaanikyushu Univ 28 (A): 29 [Kyushu]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
	Choe & Yamada	2000	1330	Bryol Res (Tokyo) 7(9): 285 [Korea]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281, pl 163 (3-4) [with key to Japan, in Japanese]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 6-7, fig 3(a-p) [Japan, keys to species; in Japanese]
	Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, new to Fujian Prov.]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 28 [Catalog of Japan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

ampullifera J.B.Jack & Steph. 1894 397

Subgenus: Trachycolea

Typus: Fiji: Viti-Inseln, Naggara, Seeküste sd, Graeffe 596
in hb G (hb JACK, ex hb LUERSSEN)
Basionym:

Distribution: Fiji (Ovalau, Naggara, Viti Levu)

spec nov	Jack & Stephani in Stephani	1894	228	Hedwigia 33: 139
	Jack & Stephani	1894	1042	Bot Centralbl 60 (4): 108 [Viti-Naggara]
	Stephani	1911	686	Spec Hepat 4: 449
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 157 [Fiji]
	Bonner	1965	655	Index Hepat 5: 230
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji: Viti Levu]
	Hattori	1981	492	J Hatt Bot Lab 49: 359-361, fig. 1(a-n) from type
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 120
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 11 [Fiji]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-101, microfiche 51 fig 3484 ["Viti, Graeffe, publiziert Jack selbst"] - 3487 [from type; "Viti, Naggara Seeküste, Dr W Graeffe 596, Jack del"]

anderssonii Ångstr. 1873 398

Subgenus: Trachycolea

Typus: Mauritius 1.2.1853, S. Andersson sn
in hb UPS [holotypus]
in hb G [isotypus ?]
Basionym:

Distribution: Madagascar, Mauritius, Reunion Isl, Seychelles (Mahe), Comores, South Africa

Ångström	1873	578	Öfversigt K Vetensk Akad Förh 30 (5): 144-145 [Mauritius]
NN	1875	1495	Hedwigia 14: 91 [Mauritius]
Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Madagascar]
Stephani	1910	686	Spec Hepat 4: 374
Bonner	1965	655	Index Hepat 5: 230
Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 366 [map of Africa]
Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 172-178, fig. 41-42 [South Africa]
Grolle	1978	285	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 27 (1): 11 [Seychellen]
Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 212, 213 [key to Madagascar] & 223
Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 3, microfiche 49 fig 3350 ["Boubon, Robillard leg"]
Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Reunion Isl]
Grolle	1995	250	Bryophyt Bibl 48: 61-62 [afr3]
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 81 [Catalogue ... of Sub-Saharan Africa]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Comoro Isl, Mauritius, Madagascar, Reunion, South Africa, Seychelles] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Comoro Isl, Mauritius, Madagascar, Reunion, South Africa, Seychelles] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
Ah-Peng et al	2012	6227	Phytotaxa 68: 11-12 [Reunion, IUCN threat category:-NT = Near Threatened]

angulata var. laciniata Demaret & Vanden Berghen 1950 419

Subgenus: Meteoriopsis Obtusilobae

Typus: Madagascar. sd, Forsyth Major 526

in hb G sub Fr. elliotii [holotypus]

Basionym: Frullania elliotii Steph. 1911 [hom illeg] [non Steph. 1894]

Distribution: Malawi, Madagascar

nom & var nov	Demaret & Vanden Berghen	1950	60	Bull Jard Bot Etat Bruxelles 20:10, fig. 3E [nom nov, comb nov et var nov]
	Bonner	1965	655	Index Hepat 5: 231
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 72-73 [var. nov.: Fr. angulata var laciniata V. B. 1976]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 208 [key to Madagascar]
	O'Shea	1993	985	J Bryol 17: 648 [Malawi]
	Grolle	1995	250	Bryophyt Bibl 48: 62 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 82 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Madagascar, Malawi] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Madagascar, Malawi] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]

angulata Mitt. 1863 406

Subgenus: Meteoriopsis Obtusilobae

Typus: W Africa. Cameroon Mountains , 8000ft, [nach BONNER 1965: St. Thomé] sd, G. Mann sn

in hb NY 737545 (hb W. MITTEN, with drawings) [holotypus]
in hb G (ex hb K) [isotypus]

Basionym:

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Ethiopia, Kenya, Malawi, Mozambique, Rwanda, Sao Tome, Tanzania, Uganda, Zaira, Zimbabwe, Madagascar, Mauritius, Reunion, Comores

spec nov	Mitten	1863	253	J Linn Soc Bot 7: 169
	Stephani	1895	212	Bot Jahrb 20 (3): 315 [Usambara]
	Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 64 [Usagara-Usambara, Kamerungebiet - Tropenwald]
	Stephani	1901	883	Cat Afr Plants Welwitsch 2 (2): 316 [Angola]
	Stephani	1911	686	Spec Hepat 4: 593-594
	Demaret & Vanden Berghen	1950	60	Bull Jard Bot Etat Bruxelles 20: 5-9, fig. 3
	Vanden Berghen	1953	446	Svensk Bot Tidskr 47 (2): 275 [Tanganyika]
	Arnell	1956	836	Ark Botanik 3 (16): 531[East African mountains]
	Vanden Berghen	1961	1507	Bull Soc Roy Bot Belg 93 (1-2): 73 [Ruanda]
	Bonner	1965	655	Index Hepat 5: 231
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 66-70, fig. 17(a-t)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 346 [map of Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 208 [key to Madagascar] & 218
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E- 1ab, microfiche 55 fig 3760 ["Kamerun, Dusen 291"] - 3761 - 3762 ["olim Frullania atrata Nees, S Thomé 24"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Fischer	1993	309	Trop Bryol 8: 95 [key to species in eastern Zaire & Rwanda]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Rwanda]
	O'Shea	1993	985	J Bryol 17: 648 [Malawi]
	Tixier	1995	730	Trop Bryol 11: 17-18 [ephiphyllous in Zaire & Rwanda]
	Chuah-Petiot	1995	31	Trop Bryol 10: 51 [Kenya: Mount Kenya]
	Grolle	1995	250	Bryophyt Bibl 48: 62 [afr3]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Reunion Isl]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 81 [Catalogue ... of Sub-Saharan Africa]
	Müller	1996	300	Trop Bryol 12: 80 [Equatorial Guinea: Bioco; distribution]
	Pérez & Sánchez	1996	297	Trop Bryol 12: 47 [Bioco, Annobón]
	Infante, Heras & Buck	1997	647	Trop Bryol 13: 132 [Equatorial Guinea: Bioco]
	Pocs	1997	1109	Abstracta Bot 21 (1): 127 [Comores, Madagascar, Reunion, Mauritius, Usambara Mts]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 5 [Uganda]
	Konrat & Braggins	1999	725	Trop Bryol 17: 107 [epiphyllous]
	Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: Annobon, Bioko, São Tomé]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 4 [Mulanje Mt, Malawi]
	Chuah-Petiot	2001	1074	Trop Bryol 20: 36 [Nyambeni Hills, Kenya]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Angola, Annobon, Bioko, Burundi, Cameroun, Comores, Ethiopia, Kenya, Mauritius, Madagascar, Malawi, Mozambique, Nigeria, Reunion, Rwanda, Sao Tome, Tanzania, Uganda, Zaire, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Bytebier & Chuah-Petiot	2002	1076	Trop Bryol 22: 62 [Taita Hills, Kenya]
	Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 203, fig 260(a-g) [Kenya; key to species]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Angola, Annobon, Bioko, Burundi, Cameroun, Comores, Ethiopia, Kenya, Mauritius, Madagascar, Malawi, Mozambique, Nigeria, Reunion, Rwanda, Sao Tome, Tanzania, Uganda, Zaire, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]

angulata fo. serratoides Vanden Berghen 1983 2111

Subgenus: Meteoriopsis Obtusilobae

Typus: Zaire. Haut-Zaire, Ituri, environs de Nioka, 1700m 30.03.1978, leg S. Lisowski 50 803

in hb BR [holotypus]
in hb PC, hb E.W. Jones, hb M. Onraedt, hb T. Pocs [isotypus]

Basionym:

Distribution: Democratic Republic of Congo

fo nov	Vanden Berghen	1983	1203	Crypt Bryol Lichen 4: 175-176
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 82 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

angustistipa Steph. 1908 422

Subgenus: Trachycolea

Typus: Samoa sd, Rechinger 3246

in hb G 18453

Basionym:

Distribution: ?New Caledonia, Samoa (Savaii, Upolu)

spec nov	Stephani	1908	216	Denkschr K Akad Wiss, Math Nat Kl, Wien 81: 297-298
	Stephani	1910	686	Spec Hepat 4: 438-439 [spec nov as "angulistipa" = nom superfl]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 157
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Bonner	1965	655	Index Hepat 5: 232
	Grolle & Schultze-Motel	1972	537	J Hatt Bot Lab 36: 83 [Samoa] [as angulistipa]
	Hattori	1981	492	J Hatt Bot Lab 49: 361-362, fig. 2(a-h) from type
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 120
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-102, microfiche 51 fig 3487 ["Samoa, leg Rechinger 2346" - as Frullania angulistipa]
	Hattori	1986	506	J Hatt Bot Lab 60: 234

anomala E.A.Hodgs. 1949 425

Subgenus: Trachycolea Australes

Typus: New Zealand: Tararuas, 3500 ft -.1.1947, H.M. Hodgson

Basionym:

Distribution: New Zealand

	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 374
	Bonner	1965	655	Index Hepat 5: 233
	Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 11 [initial branching appendages]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 440 [chemosystematic; bibenzl-type]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 4th of 6 pages [Key to Frullania of New Zealand]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]

antaresensis S.Hatt. 1980 426

Subgenus: Diastaloba

Typus: New Guinea. Indonesia: W Jrian, Jayawijaya, Star Mts, Mt. Antares, 3200 m 22.7.1959, B.O. van Zanten 687a

in hb NICH [holotypus]
in hb L[hb LUGD BAT 20 Ind Or 972.210 610] [isotypus]

Basionym:

Distribution: New Guinea (endemic)

spec nov	Hattori	1980	489	J Hatt Bot Lab 47: 92-93, fig. 222(a-h)
	Hattori	1982	495	J Hatt Bot Lab 51: 212
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 17 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 26
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 20: Holotype. New Guinea, Star Mts., Mt. Antares. 3200 m. 22 July 1959. B. 0. van Zanten 687a (NICH 354867).

aoshimensis Horik. 1929 427

Subgenus: Frullania Microphyllae

Typus: Japan. Kyushu. Prov Hiuga, Isl. Aoshima. 8.4.1927, Horikawa 357

in hb HIRO [holotypus]

Basionym:

Distribution: China (Fujian, Hainan, Guangxi), Taiwan, Japan, Ryukyu (Amami, Okinawa, Tokunoshima, Iriomote, Ishigaki), China (Zhejiang)

spec nov	Horikawa	1929	924	Sci Rep Tohoku Imp Univ, ser 4, Biol 4: 64-66, fig 4(1-10) [Japan]
	Verdoorn	1934	240	Ann Bryol Suppl 4: 197
	Horikawa	1934	34	J Sci Hiroshima Univ, ser B, div 2, 2: 237 [Japan]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 142 [Japan, key to Japanese species]
	Horikawa	1950	959	Hikobia 1: 81 [Japan]
	Horikawa	1950		: 32 /aus 948
	Hattori	1951	528	J Hatt Bot Lab 5: 62
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 122
	Hattori	1952	529	J Hatt Bot Lab 8: 29
	Iwatsuki & Hattori	1956	861	J Hatt Bot Lab 16: 87
	Hattori, Iwatsuki & Kanno	1956	862	J Hatt Bot Lab 16: 93
	Hattori & Noguchi	1960	965	Index spec Typ herb Japon, Bryophyta: 16
	Kamimura	1961	199	J Hatt Bot Lab 24: 69, fig 25(1-13), map 11
	Bonner	1965	655	Index Hepat 5: 233
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 203 [Ryukyu Arch.]
	Shin	1970	150	Sci Rep Kagoshima Univ 19: 25 [Ryukyu: Amami Isl]
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 37 [Ryukyu: Okinawa, Iriomote, Ishigaki]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 120, fig 60(a-b), map p.232 [Central Japan]
	Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 332, fig 170 [718]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Wu & Lin	1978	1531	Acta Phytotaxonomica Sinica 16 (2): 59
	Hattori	1980	130	J Jap Bot 55 (5): 132
	Li & Gao	1983	2800	Investigatio et studium natue - Kaocha-yu-yanjiue 1: <19-26> [aus 698]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 157 [China]
	Kuo & Chiang	1988	948	Taiwania 33: 11 [Index of Taiwan]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Zhu et alii	1993		J East China Normal Univ (Nat Sci) 1993 (3): <95-105> [aus 698]
	Wang	1993	1223	Chenia 1: 130 [south China, Guangxi Prov.]
	Zhang et alii	1993		[aus 698]
	Zhu et alii	1994		Hikobia 11(4): <543-547> [aus 698]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 67 [China, Hainan]
	Zhu et alii	1995		J Xinjiang Univ (Nat Sci) 12(1): <87-90>[aus 698] = Journal of Xinjiang University. Natural Science
	Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
	Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
	He & Piippo	1999	1212	Bryobrothera 5: 97 [linear ocelli]
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 14, fig 11(a-p) [Japan, keys to species; in Japanese]
	Zhu & So	2001	808	Nova Hedwigia Beih 121: 73-75, fig 32(a-j) [China; epiphyllous]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 280-281, pl 162 (4) [with key to Japan, in Japanese]
	Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, new to Fujian Prov.]
	NN	2003	1397	Types of Nat Hist mus Hiroshima [http://www.digital-museum.hiroshima-u.ac.jp/~museum/types/pages/hepa/f/hirotypeHepaF.html]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 28 [Catalog of Japan]
	Furuki	2006	1503	Hikobia 14: 407 [Izu Isls., Northern Izu-Mariana Arc]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

apertilobula Gerola 1947 429

Subgenus: Incertae sedis

Typus: Abyssinia: Irgalen (Dalle) 25.11.1937, Vatova

Basionym:

Distribution: Ethiopia

spec nov	Gerola	1947	1532	Lavori di botanica 12: 478, fig 12(a-g) [Ethiopia]
	Cufodontis	1952	2562	Phyton 4 (1-3): 76 [Ethiopia]
	Bonner	1965	655	Index Hepat 5: 233
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 13 [from Ethiopia]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 82
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Ethiopia] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Ethiopia] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

apicalis Mitt. 1879 431

Subgenus: Meteoriopsis Obtusilobae

Typus: Mauritius:Rodriguez Islands - Isle of Rodriquez sd, J.B. Balfour sn

in hb G (ex hb MITTEN)
in hb E E00002514 [isotypus]

Basionym:

Distribution: Annobon, Bioko, Burundi, Democratic Republic of Congo, Ethiopia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Malawi, Mozambique, Nigeria, Rwanda, Sao Tome, Sierra Leone, Tanzania, Uganda, Zimbabwe, Madagascar, Mauritius, Reunion (Bourbon), Seychelles (Mahe), Comores, Rodriquez

spec nov	Mitten	1879	1913	Phil Trans Roy Soc Lond 168: 401, fig 40D (1-3)
	Stephani	1911	686	Spec Hepat 4: 625-626
	Bonner	1965	655	Index Hepat 5: 234
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 342 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 47-56, fig. 12 -13 [? corresponding with Fr. borbonica LINDENBERG]
	Grolle	1978	285	Wiss Z Fried-Schiller Univ Jena, Math Nat Reihe 27 (1): 11 [Seychellen]
	Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 228 [East Africa; Tanzania]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 209 [key to Madagascar] & 217-218
	Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 250 [Sierra Leone, Ghana]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B- 4, microfiche 48 fig 3230 [from type; "Africa Insula Rodriquez leg Balfour"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire, Rwanda]
	Fischer	1993	309	Trop Bryol 8: 95 [key to species in eastern Zaire & Rwanda]
	Grolle	1995	250	Bryophyt Bibl 48: 62-63 [afr3]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles (Mahé Isl), Madagascar, Reunion]
	Chuah-Petiot	1995	31	Trop Bryol 10: 51 [Kenya: Mount Kenya]
	Pérez & Sánchez	1996	297	Trop Bryol 12: 47 [Bioco]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 82 [Catalogue ... of Sub-Saharan Africa]
	Chuah-Petiot	1997	646	Trop Bryol 13: 62 [Kenya, Aberdare Range]
	Pocs	1997	1109	Abstracta Bot 21 (1): 127 [Seychelles, Comores, Madagascar, Reunion, Mauritius, Usambara Mts]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Sanchez & Perez	1998	700	Trop Bryol 15: 5 [Equatorial Guinea, Rio Muni]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: Annobon, Bioko, São Tomé]
	Wigginton	2001	1079	Trop Bryol 20: 93 [foliicolous taxa of Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 4 [Mulanje Mt, Malawi]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [new to Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Annobon, Bioko, Burundi, Comores, Ethiopia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mauritius, Madagascar] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Bytebier & Chuah-Petiot	2002	1076	Trop Bryol 22: 62 [Taita Hills, Kenya]
	Müller & Pocs	2002	1078	Trop Bryol 22: 110 [Rodrigues] & 113 [Commors, Magagascar, Mauritius, Reunion, Seychelles]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Malawi, Mozambique, Nigeria, Reunion, Rio Muni, Rodrigues, Rwanda, Soa Thome, Seychelles, Lesotho, Sierra Leone, Tanzania, Uganda, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 203, fig 261(a-g) [Kenya; key to species]
	Wigginton	2004	1172	Sript Bot Belg 30: 215-217, fig 137(A-T) [West Africa]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Annobon, Bioko, Burundi, Comores, Ethiopia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mauritius, Madagascar & others] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [others &Malawi, Mozambique, Nigeria, Reunion, Rio Muni, Rodrigues, Rwanda, Soa Thome, Seychelles, Lesotho, Sierra Leone, Tanzania, Uganda, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]

	Tusiime, Byarujali & Bates	2007	2014	Afr J Ecol, suppl 3: 82 [Uganda, 1500m]
	Frahm	2010	2306	Mosses and Liverworts of the Mascarenes and Seychelles [Foto, p. 44]

apicalis var. camerunensis Vanden Berghen 1976 508

Subgenus: Meteoriopsis Obtusilobae

Typus: Cameroon. Mont Cameroon, 2580m 30.3.1948, E.W. Jones 402

in hb BR [holotypus]
in hb K

Basionym:

Distribution: Cameroon, Kenya

var nov	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 53-56, fig. 13
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 82 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Cameroon] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Bytebier & Chuah-Petiot	2002	1076	Trop Bryol 22: 62 [Taita Hills, Kenya]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Cameroon, Kenya] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 217, fig 138(A-F) from type [West Africa]

apiculata (Reinw., Blume & Nees) Nees 1845 509

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Java. sine loco speciali coll ign, sub Jungermannia apiculata

in hb L (Herb Lugd Bat No 910.288.140) [lectotypus by HATTORI 1980]
in hb PC-0033268 [isotypus]
in hb G 10705 (La Reunion ex hb STR) >L730 ???
In hb GLM (hb LEHMANN) 05945, 05946 (ex hb LGOTTSCHE)

Basionym: Jungermannia apiculata Reinw., Blume & Nees 1824 [pp] [male plant]

Distribution: Cameroon, Democratic Republic of Congo, Equatorial Guinea (Rio Muni), Gabon, Ghana, Guinea, Rwanda, Madagascar, Mauritius, Reunion, Seychelles (Mahé Isl), Comores, Mascarenes, Mexico, Panama, Costa Rica, Puerto Rico, Dominican Rep, Venezuela, ?Bolivia, Colombia, Trinidad, Ecuador, Peru, Guyana, Surinam, French Guiana, Brazil, Argentina, China (Anhui, Hainan, Guangdong, Hunan, Yunnan, Zhejiang), India (North: West Bengal (Darjeeling), Assam, Meghalaya (Shillong); South India). Andaman Isl [India], Sri Lanka, Burma, Laos, Vietnam, , Thailand, Singapore, Malaysia (Kedah, Terengganu, Pahang, Selangor, Sarawak, Sabah), Borneo, Indonesia (Sulawesi, Java, Sumatra), Philippines, New Guinea, Australia (QLD), Vanuatu, New Caledonia, Samoa (Tutuila), Fiji (Ovalau), Society Isl (Tahiti), Micronesia [=Caroline Isl], Cook Isl, Hawaii

	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
Nees in G., L. & N.	1845	2850	Syn Hepat: 452 (No 90)
Montagne	1848	473	Ann Sci Nat Bot, ser 3, 10: 116
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 89
Mitten	1861	574	J Linn Soc Bot 5: 121 [India: Khasi mount., Ceylon: Matale]
Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 313 [Java, Sumatra, Banca, Ceram, Halmaheira]
Reichardt	1870	884	Reise österr Fregatte Novara, Bot Theil, Bd 1: 154 [Tahiti]
Austin	1874	668	Bull Torrey Bot Club 5: 15 [Oahu - Sandwich Isl]
Baldwin	1877	901	Hawaiian Almanac: 42 [Hawaii]
Gottsche	1882	254	Abh Naturwiss Ver Bremen 7 (3): 363 [Madagascar]
Sande Lacoste in Veth	1884	807	Midden Sumatra, Reizen en Qnderzoekingen der Sumatra Expeditie, 4 (2): 44 [Sumatra]
Schiffner	1889	581	Forschungsreise S.M.S. "Gazelle" 4 (4): 39 [Amboina]
Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Madagascar]
Jack & Stephani	1892	1089	Hedwigia 31: 12 [Philippines]
Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 222, pl 6(28-30)
Jack & Stephani	1894	1042	Bot Centralbl 60 (4): 108 [Viti-Ovalau]
Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134, fig 70(f-g)
Stephani	1897	214	Bull Herb Boissier 5: 842[:260] [Hawaii]
Bescherelle	1898	871	J Bot Morot 12: 137 [Tahiti]
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 319-321
Evans	1900	236	Trans Connet Acad Arts Sci 10 (1): 400-402, pl. 46
Schiffner	1900	904	Hedwigia 39: 207 [Java]
Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134, fig 70(f-g)
Yoshinaga	1906	927	Bot Mag Tokyo 20: 52 [Japan]
Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 2 [key to Japanese species, in Japanese]
Paris	1910	1455	Rev Bryol 37 (6): 130 [New Caledonia: St. Vocent]
Stephani	1911	686	Spec Hepat 4: 542-543
Iishiba	1912	888	Bot Mag Tokyo 26: 35 [Japan, with key in Japanese]
Stephani in Rechinger	1913	218	Denkschr K Akad Wiss, Math Nat Kl, Wien 88: 34 [Savaii Isl]
Pearson	1924	863	Papers Dept Marine Biol Carnegie Inst Wash 20 (=341): 140, fig 14(1-5) [Samoa: Tutuila]
Sim	1926	252	Trans Roy Soc S Africa 15: 45 [specimens from Africa may be Fr. serrata]
Verdoorn	1929	245	Ann Bryol 2: 137-139 [Java, Sumatra]
Verdoorn	1929	548	Ann Jard Bot Buitenzorg 40: 140
Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
Verdoorn	1930	293	Ann Bryol Suppl 1: 96-102, fig. 143-146, 164-167
Verdoorn	1930	549	Nova Guinea 14 (4): 542
Verdoorn	1932	232	Ann Bryol 5: 126 [Hepat select crit, ser 3 & 4 no 168-170; Java-Sumatra]
Kühnemann	1937	1031	Revista del Centro Estudiants del Doctorado en Ciencias Naturales 1(3): <155.179> [Argentina [as Fr mertensiana]
Nicholson	1942	679	Rev Bryol Lichen 13: 143 [Hawaii; specimens as modification "pachydermata colorata"]
Chopra	1943	205	J Indian Bot Soc 22: 249 [India] [apiculata NEES]
Jovet-Ast	1944		Contr R Somm Séances Soc Biogéogr : 178-181 [map]

	Clark & Svihla	1948	325	Bryologist 51: 23 [key to Fr. of Middle America: (Mexico), Puerto Rico, Trinidad (South America, southern Africa,]
	Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 317 [Borneo, Sarawak]
	Miller	1953	349	Bryologist 56: 45-46
-	Clark	1955	369	Bryologist 58: 72 [Fr apiculata & Fr exilis may be one species]
	Clark	1955	369	Bryologist 58: 68-72 [similar to Fr. exilis, type is a mixture]
	Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: EH IO]
	Miller, Whittier & Bonner	1963	2409	Beih Nova Hedwigia 11: 44 [Caroline Isl, new to Micronesia], pl 15
	Miller	1963	834	Ark Bot, ser 2, 5: 518-519 [Hawaii]
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Miller	1968	672	Micronesia 4 (1): 74 [key to Guam & Northern Micronesia]
	Miller	1968	671	Micronesia 4 (2): 244, fig 8 [Truk, Caroline Isl]
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji: Ovalau]
	Hattori	1972	538	J Hatt Bot Lab 36: 109-113, fig. 1-3
	Hattori	1972	539	J Hatt Bot Lab 36: 420-421, fig. 6
	Grolle & Schultze-Motel	1972	537	J Hatt Bot Lab 36: 83 [Samoa]
	Hattori	1974	546	J Hatt Bot Lab 38: 224-226, fig 107-108
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 81 [Java, Bogor Mt. Tjibodas; Borneo, Mt. Kinabalu]
	Hattori	1974	544	J Hatt Bot Lab 38: 171 [Luzon]
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 109
	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 146-147, fig. 161
	Hattori	1975	547	J Hatt Bot Lab 39: 278-279
	Hattori	1976	80	J Hatt Bot Lab 40: 472-473
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 354 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 102-107, fig. 26
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 441 [Thailand]
	Hattori	1977	479	J Hatt Bot Lab 43: 409-410 [New Caledonia]
	Grolle	1978	285	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 27 (1): 11 [Seychellen]
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 177-178 [India: Assam]
	Hattori	1979	129	J Jap Bot 54 (1): 22-23 [Sri Lanka]
	Onraedt & Cremers	1980	75	Crypt Bryol Lichen 1 (3): 273-274 [French Guiana]
	Hattori	1980	489	J Hatt Bot Lab 47: 104-107, fig. 228(a-g) [lectotypification]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 201 [Sri Lanka]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 208 [key to Madagascar] & 220-221
	Hattori	1982	495	J Hatt Bot Lab 51: 212-213
	Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 250 [Ghana]
	Hattori	1984	503	J Hatt Bot Lab 57: 405
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 17 [Cat. West Melanesia]
	Liu	1985	2801	Invest Stud Nat 5: <133-155> [aus 698]
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 11 [Fiji]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-129bc, microfiche 58 fig 4057 ["Java, Blume"] - 4058 ["Banca, ... Com"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-129a, microfiche 58 fig 4056 ["Frull explicata Netze, Hawai, Gaudichaud, Original von explicata"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 157 [China]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 101 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 26-27, fig.1
	Hattori	1986	507	J Hatt Bot Lab 60: 241-242 [Seram]
	Hattori in Piippo	1986	946	Ann Bot Fennici 23: 10 [Neu Guinea]
	Hattori	1986	506	J Hatt Bot Lab 60: 228 [New Caledonia]
	Hattori	1988	516	J Hatt Bot Lab 65: 413 [Papua New Guinea]
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Gradstein & Florschütz-de	1989	1237	Trop Bryol 1: 40 [Venezuela, Mt Roraima]
	Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [Guyana, French Guiana]
	Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]
	Cornelissen & Gradstein	1990	729	Trop Bryol 3 (2): 33 [Guyana]
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
	Schuster	1992	603	Hepat N America 5: 78-79 [syn sub Pseudodiastaloba]

	Wolf	1993	2380	Phytocoenologia 22(1): 27 [Colombia, Epiphyte - Lower montane rain forest communities: accompaning taxa with no preference for Mountain Rain forest]
	Zhang et alii	1993		[aus 698]
	Wolf	1993	2379	Phytocoenologia 22(1): 56 [Colombia, Epiphyte - Upper montane rain forest communities: canopy community]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Eastern Himalaya, South India]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 67 [China, Hainan]
	Koike	1994	37	J Hatt Bot Lab 75: 184 [Micronesia]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles (Mahé Isl), Madagascar, Reunion Isl]
l	Grolle	1995	250	Bryophyt Bibl 48: 63
	Tixier	1995	730	Trop Bryol 11: 18 [ephiphyllous in Zaire & Rwanda]
	Grolle	1995	250	Bryophyt Bibl 48: 63 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 82-83 [Catalogue ... of Sub-Saharan Africa]
	Stotler in Seaward & FitzGerald	1996	1092	Richard Spruce, Roy Bot Gard Kew: 131, fig 8-10 [subgen Chonanthelia]
	Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana, Surinam, French Guiana]
	Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
	Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 178 [Checklist Panama]
	Nath & Asthana	1998	708	J Hatt Bot Lab 85: 75, fig 5(16-28) [South India; key to all spec.]
	Sanchez & Perez	1998	700	Trop Bryol 15: 5 [Equatorial Guinea, Rio Muni]
	Nath & Asthana	1998	683	J Bryol 20(1): 233 [South India]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
	Pocs & Streimann	1999	762	Bryobrothera 5: 169 [epiphyllous, Australia: Queensland]
	Konrat & Braggins	1999	725	Trop Bryol 17: 105 [Rwanda & Zaire; commonly epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 444 [Colombia]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 431, fig 216(9-15) [China, Yunnan]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 191-192
	Zhu & So	2001	808	Nova Hedwigia Beiheft 121: 77-79, fig 34(a-i) [Epiphyllous liverworts of China]
	Bai	2001	1742	Guizhou Science 19(4): 50 [China, Yunnan]
	Merwin, Gradstein & Nadkarni	2001	1075	Trop Bryol 20: 66 [Montverde, Costa Rica]
	Konrat & Braggins	2001	838	J Hatt Bot Lab 91: 256-262, fig 9(a1-l2), 10(1-6)
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Cameroun, Comores, Gabun, Ghana, Guinea, Mauritius, Madagascar, Reunion, Rio Muni, Rwanda, Seychelles, DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Bai	2002	1189	Chenia 7: 22 [Yunnan, China]
	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 249-251, pl 49 (1-20), map 11 - Unpublished thesis.
	Piippo, He, Juslen, Tan, Murphy & Pocs	2002	1002	Ann Bot Fennici 39: 114 [Singapore]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 41 [Australia (QLD)]
	Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
	Drehwald	2003	2813	Cambios en la vegetación briofítica: 283 [Ecuador (Parque Nacional Sangay)]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1134, fig 532(9-15) [China]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 322 [Shangsi County, Guangxi] & 328 [Guangxi Prov, China]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 83, fig 25(d-f) [Brazil]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
	Wigginton	2004	1172	Sript Bot Belg 30: 217-218, fig 139(A-R) [West Africa]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: xx [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Cameroun, Comores, Gabun, Ghana, Guinea, Mauritius, Madagascar, Reunion, Rio Muni, Rwanda, Seychelles, DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]

Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Pocs & Ninh	2005	1398	Acta Bot Hungarica 47 (1-2):154 [Vietnam (Vu Quang Nature Reserve)]
Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
Camara, Oliveira & Santiago	2005	1359	Trop Bryology 26: 137 [Brazil; Distrito Federal Brasilia]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
Zhu, Wang, Xu, Shi, Wang & Zheng	2006	2068	J Hatt Bot Lab 100: 605, 608 [antibacterial activity]
McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
Staples & Imada	2006	1716	Trop bryol 28: 27 [Hawaii]
So & Wang	2006	1466	J H B L 100: 420, fig 1(a-b) [Hawai, key to Hawaiian species]
Valente & Porto	2006	1487	Acta bot bras 20(2): 435 [Brazil]
Gradstein	2006	1401	Crypt Bryol 27(1): 147, 150 [French Guiana: lowland cloud forest]
Camara & Costa	2006	1131	Hoehnea 33(1): 82 [Reserva Ecologica do IGBE, Brazil]
Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 6 [Sulawesi, Pantropical, lowland & montane]
Romanski	2007	3866	Thesis [Peru, epiphytic in lower montane rainforest]
Yano	2008	1684	Boletim Instituto Botanica 19: 29 [Brazil; catalog]
Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 57-59, fig 1[map], 3(1-20) [India, Meghalaya, Eastern Himalayas]
Gradstein & Ilkiu-Borges	2009	1920	Mem New York Bot Gard 76(4): 43, fig 24(a-c,h) [French Guiana]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 383 [Dominican Republic, new to Hispaniola]
Chantanaorrapint	2010	2339	Thesis; Epiphytic bryophytes in Southern Theiland, p. 50, 78 [Thailand]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 248(9-15) [key in Chinese]
Romanski et al.	2011	3486	Supplementary list to Bryologist 114(4): <720-731> [Peru]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 354 [Colombia; synopsis of Frullaniacae & keys]
Schäfer-Verwimp, Peralta & Costa Siqueira	2012	3323	Phytotaxa 57: 27-30 [Key to the species of Frullania subg. Diastaloba from Brazil]
Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 20-22, fig 5(a-g) [checklist & revision of genus Fullania, Thailand]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 19, photos [Sumatra, with key]
Lima	2019	5121	Frullania no Brasil [Thesis]: 196 [name excluded from Brazil, specimens belong to Fr exilis]
Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 389-390, fig 140(a-n) [India (Western Ghats, keys]

apiculata var. guianensis Lindenb. & Gottsche 1851 543

Subgenus: Incertae sedis

Typus: Suriname.ad Oude Ryweg apud Paramaribo sd, Kegel 524

Basionym:

Distribution: Guyana, Surinam

Lindenberg & Gottsche	1851	282	Linnaea 24: 638 [zitiert nach G. L.& N. Syn Hepat: 452, no 90 - not mentioned there]
Lindenberg & Gottsche	1851	282	Linnaea 24 (5): 638-639 [Suriname]
Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [Suriname]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana, Surinam]

apiculata var. laxa Nees 1845 544

Subgenus: Diastaloba Diastaloba I

Basionym: Frullania apiculata var. nodulosa (Nees) Nees 1845

Distribution: Indonesia (Java)

var nov	Nees in G., L. & N.	1854	141	Syn Hepat: 452
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 89
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 541
- syn nov	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 320 [as syn sub Fr. apiculata var nodulosa]
	Bonner	1965	655	Index Hepat 5: 235

apiculata var. goebelii Schiffn. 1893 539

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Java 1885/1886, K, Goebel

Basionym:

Distribution: Vietnam, Sri Lanka, Indonesia (Java, Ambon), Malaysia (Pahang, Sarawak, Sabah), Borneo, Philippines, Samoa, Fiji (Ovalau, Taveuni, Viti Levu)

var nov	Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 222
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 321
	Schiffner	1900	904	Hedwigia 39: 207 [Java]
	Schiffner	1910	436	Österr Bot Zeitschr 60 (11): 432
	Verdoorn	1929	245	Ann Bryol 2: 139
	Verdoorn	1930	293	Ann Bryol Suppl 1: 101, fig. 144
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 492 [Hawaii]
	Verdoorn	1932	232	Ann Bryol 5: 126 [Hepat select crit, ser 3 & 4 no 168; Java] & 138-139
	Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 317 [Borneo, Sarawak]
	Herzog	1950		?
	Bonner	1965	655	Index Hepat 5: 235
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 121
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]

aposinensis S.Hatt. & P.J.Lin 1985 547

Subgenus: Trachycolea

Basionym: Frullania chinensis Steph. 1911 [non F. sinensis St. (1906)]

Distribution: China, Nepal

nom nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 131
	Hattori	1986	74	Bull Natn Sci Mus Tokyo, ser B (Bot), 12 (4): 136, fig. 255
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 193 [Nepal]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [China]
	Fang, Enroth, Koponen & Piippo	1998	704	Hikobia 12 (4): 347 [China: Jiangxi Prov]

appalachiana R.M.Schust. 1983 550

Subgenus: Trachycolea Trachycolea

Typus: USA: North Carolina, Waterrock Knob RMS 44601

Basionym:

Distribution: USA (NC TN SC)

spec nov	Schuster	1983	440	Phytologia 53 (5): 366
	Schuster	1992	603	Hepat N America 5: 150-157, Fig. 795(13-14), 796, 795A(9-15)
	Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 139-140, fig 79(1-7) [USA: North Carolina]
	Smith & Davison	2001	1256	Final rep bryophyte invent Yellow Face Land tract: 9-10, 15, 19 of 30 [USA (NC), stream ravine & slopes, ridges]
	NN	2002	1266	http://www.natureserve.org/explorer [USA]
	NN	2002	1266	http://www.natureserve.org/explorer [USA: NC SC GE TN]

appendistipula S.Hatt. 1972 552

Subgenus: Trachycolea

Typus: Papua New Guinea: Simbu, Mt. Wilhelm, Lake Aunde, 11600 ft 1967, Schuster 67-6533

in hb NICH [holotypus]
in hb JE [isotypus]
in hb MASS [isotypus]

Basionym:

Distribution: China (Yunnan), New Guinea (endemic)

spec nov	Hattori	1972	539	J Hatt Bot Lab 36: 424-428, fig. 9-10
	Hattori	1973	542	J Hatt Bot Lab 37: 149 [New Guinea]
	Hattori	1974	546	J Hatt Bot Lab 38: 226
	Hattori	1975	547	J Hatt Bot Lab 39: 279
	Hattori	1982	495	J Hatt Bot Lab 51: 247
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 17 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 42-44, fig. 4
	Hattori	1988	516	J Hatt Bot Lab 65: 413 [Papua New Guinea]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 410-412, fig 205(1-9) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 32, fig 1(1-9) [China, Yunnan]
	Bai	2002	1189	Chenia 7: 2, fig 1(1-9) [Yunnan, China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 20: Holotype. New Guinea, Central Highlands, Mt. Wilhelm, Lake Arunde. 11600 ft. On bark. 2 June 1967. R. M Schuster 67-6533 (NICH 309934)
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 229(1-9) [key in Chinese]

appendistipula var. spinifera S.Hatt. 1974 553

Subgenus: Trachycolea

Typus: Papua New Guinea: Western Highlands, Mt. Hagen, 3300-3400 m "Mew Guinea: Western Highlands, Mt. Hagen, along track above saw-mill. On branches of mountain rainforest undergrowth" 19/10/1968, Zanten, B.O. van 68-2987/a

in hb JE [holotypus]
in hb NICH [isotypus]
in hb L L0060919 [typus]

Basionym:

Distribution: New Guinea (endemic)

var nov	Hattori	1974	546	J Hatt Bot Lab 38: 226-229, fig. 109-110
	Hattori	1982	495	J Hatt Bot Lab 51: 247
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 17 [Cat. West Melanesia]
	Hattori	1988	516	J Hatt Bot Lab 65: 413 [PNG]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 44

armata Herzog & L.Clark 1954 555

Subgenus: Incertae sedis

Typus: Costa Rica: Prov. de San José, 1500-1800 m 14-16.12.1925, Paul Standley 42479

Basionym:

Distribution: Costa Rica, Colombia [?]

spec nov	Clark	1954	363	Bryologist 57: 36-39, fig. 1-14
	Winkler	1976	5	Rev Bryol Lichen 42 (3): 811 [Colombia]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Morales Z.	1991	307	Trop Bryol 4: 36 [Costa Rica]
	Kappelle	1996	1409	Los Bosques de Roble, Cordillera de Talamanca, Costa Rica: 257
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 77 [Catalogue Colombia; doubtful]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 383 [Colombia, may be misidentified]

armatifolia Verd. 1932 556

Subgenus: Diastaloba

Typus: Papua New Guinea: Hellwig-Gebirge, 2600 m -.12.1912, A. Pulle

Basionym:

Distribution: Indonesia (Ceram), Malaysia (Sabah), Borneo, New Guinea, Philippines

spec nov	Verdoorn	1931	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 61, fig. 1-5 [Netherl Neu Guinea]
	Hattori	1972	539	J Hatt Bot Lab 36: 436-437 [difference to Fr alte-mammillata]
	Hattori	1982	495	J Hatt Bot Lab 51: 263 [difference to Fr alte-mammillata]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 17 [Cat. West Melanesia - only in West Irian]
	Hattori	1986	507	J Hatt Bot Lab 60: 242 [New to Seram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 38, fig. 3 [Altitudinal ranges in Papua New Guinea] The senior author wishes to reduce F.alte-mammillata to a synonym of F. armatifolia, considering Verdoorn 's measurement of median cells as not very correct]
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Hattori	1988	516	J Hatt Bot Lab 65: 414-415 [Papua New Guinea]
	Frahm et al	1990	79	Mosses and liverworts of Mt. Kinabalu [Mt. Kinabalu]
	Akiyama	2009	3691	Acta Phytotaxonomica et Geobotanica 60(2): 117 [Seram]
	Chuah-Petiot	2011	3242	Polish Botanical Journal 56 (1): 1-44 [Checklist Malaysia]

armitiana var. longe-attenuata (S.Hatt.) S.Hatt. 1980 797

Subgenus: Incertae sedis

Basionym: Frullania longe-attenuata S.Hatt. 1973

Distribution:

comb nov	Hattori	1980	489	J Hatt Bot Lab 47: 107-109 , fig 229 [comb nov; basionym is Fr. longe-attenuata]
- syn nov	Hattori	1982	495	J Hatt Bot Lab 51: 214 [syn sub Fr. attenuata var longe-attenuata]

armitiana var. inflexula S.Hatt. 1988 561

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea, Central Distriet, Mt. Albert Edward. 3200 m. 27 Oct. 1975. H. Inoue 30115

Basionym:

Distribution: New Guinea

var nov	Hattori	1988	516	J Hatt Bot Lab 65: 415-416
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 21: Holotype. New Guinea, Central Distriet, Mt. Albert Edward. 3200 m. 27 Oct. 1975. H. Inoue 30115 (NICH 428126).

armitiana Steph. 1911 560

Subgenus: Diastaloba Diastaloba I

Typus: Papua New Guinea: Milne Bay, Mt. Dayman, 9000 ft sd, W. Armit jun. sn
in hb G G00066987 - n° SIB 125542/1 - G14228 (ex hb GEHEEB) [holotypus]

Basionym:

Distribution: Malaysia (Sabah), Borneo, New Guinea

spec nov	Stephani	1911	686	Spec Hepat 4: 538
	Verdoorn	1930	293	Ann Bryol Suppl 1: 102, fig. 147, 168-170a
	Verdoorn	1930	549	Nova Guinea 14 (4): 543 [New Guinea]
	Bonner	1965	655	Index Hepat 5: 237
	Hattori	1972	538	J Hatt Bot Lab 36: 113-115, fig. 4
	Hattori	1973	542	J Hatt Bot Lab 37: 149
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 81-82, fig 6(1-6) [new ? to Borneo, Mt. Kinabalu]
	Hattori	1974	546	J Hatt Bot Lab 38: 229
	Hattori	1975	547	J Hatt Bot Lab 39: 279
	Hattori	1980	489	J Hatt Bot Lab 47: 107, fig. 229
	Hattori	1980	489	J Hatt Bot Lab 47: 107-109 [Fr. armitiana is conspecific with Fr. attenuata & Fr. longe-attenuata]
	Hattori	1982	495	J Hatt Bot Lab 51: 213-214 [Fr. armitiana is NOT conspecific with Fr. attenuata & Fr. attenuata var. longe-attenuata]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 17-18 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-130, microfiche 59 fig 4059 ["N Guinea, Mt Dayman, 9000f, W Armit junior"] - 4060
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 27, fig. 1 (Altitudinal ranges)
	Hattori	1988	516	J Hatt Bot Lab 65: 415 [PNG]

asagrayana Mont. 1842 562

Subgenus: Frullania

Typus: USA: North Carolina, Mt. Granfather sd, Asa Gray
in hb S (B22572, B22573, B22574, B22575) [typus]
in hb GLM hb LEHMANN) 05949 [typus]

Basionym:

Distribution: Canada (NF ON PQ NS), USA (ME VT MA CT NY VA WV NC SC GA TN MI MN AR)

spec nov	Montagne	1842	469	Ann Sci Nat Bot, ser 2, 18: 13-14 [footnote]
	Montagne in G., L. & N.	1845	2850	Syn Hepat: 441 (No 64)
	Sullivant	1846	764	Musci Alleghaniensis: 63 [Exsicc No 266, reprint of labels]
	Montagne	1856	1912	Sylloge generum specierumque cryptogamaram: 84
	Britton	1889	2441	Catalogue of plants in New Jersey [USA, New Jersey]: 347
	Howe	1894	570	Erythea 2: 97-99
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 22-23, pl. 11
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 46 [Canada]
	Barbour	1902	2233	Bryologist 5(1): 5 [USA]
	Stephani	1911	686	Spec Hepat 4: 566
	Zwickel	1932	663	Beih Bot Centralbl 49: 637 [Ozellen]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 751-753, fig Fra(1-15)
	Schuster	1953	604	Amer Midl Nat 49 (2): 561, pl 70(1-3)
	McGregor	1955	2240	Univ Kansas Sci, Bull 37(3): 78 [USA, Kansas - rare]
	Fullford	1956	379	Bryologist 59: 265-270 [pattern of regeneration]
	Bonner	1965	655	Index Hepat 5: 233
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 528 [comb nov as tamarisci ssp. asagrayana]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-186ab, microfiche 60 fig 4137 ["Austin, Am septr"] - 4138 ["California", 45]
	Crandall-Stotler, Stotler & Geissler	1987	399	Bryologist 90 (4): 287-308 [tamarisci ssp. asagrayana = asagrayana]
	Crum	1991	1018	Liverw Hornw Southern Michigan: 101, fig 94f [USA, Michigan]
	Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 134, fig 73(1-6), map 95 [USA: North Carolina]
	Schuster	1992	603	Hepat N America 5: 60-65, fig. 780-781 [as Fr. tamarisci ssp asagrayana]
	Timme & Redfearn	1997	1134	http://biology.smsu.edu/herbarium/liverw_t.htm [printed 20.6.2004 page 9 of 19; USA]
	Timme & Redfearn	1997	748	Evansia 14(3): 96
	Timme & Redfearn	1997	631	http://science.smsu.edu/~csre/herbarium/liverw_t.htm [4.6.97] printed 15.1.98 12:34 page 3 of 6 [USA]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Grims	2001	1136	Moosherbar in hb LINZ, from USA [Internet]
	Myrdal	2002	1276	Mosskollekter [Frullania types in hb S]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Cleavitt	2004	1167	Evansia 21 (2): 53 [USA, New Hampshire]
	Davison & Keller	2004	1168	Evansia 21 (2): 84 [USA, Great Smoky Mts NP]
	Lincoln	2008	1712	Memoir New York Bot Gard 99: 121 [New England States, USA]

astrolabea Steph. 1910 780

Subgenus: Trachycolea Irregulares

Typus: "Hawaii"?, Voyage de l'Astrolabe 1838-40

in hb G G00069168 - n° SIB 125558/1 - G20543 (ex hb BESCHERELLE as Frullania scandens, Hawai, Voyage Astrolabe)
in hb G G00046115 - n° SIB 90530/1 (no further info)

Basionym:

Distribution: ?Hawaii

		0		Frullania astrolabea is possibly conspecific with Frullania scandens (Hattori)
spec nov	Stephani	1911	686	Spec Hepat 4: 460 ["Hawai (Expeditio "Astrolabe")]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 157 [may be Fr. sandvicensis; wrong place of collection]
	Miller	1953	349	Bryologist 56: 48 [doubtfull in Hawaii]
	Miller	1959	6432	annotations in hb G: "This material does not seem to be from Hawaii: The Astrolabe did not visit Hawai, but Tavai (in South New Zealsnd"
	Bonner	1965	655	Index Hepat 5: 239 [Astrolabe did not visit Hawaii, perhaps error for Tavai ?]
	Hattori	1981	492	J Hatt Bot Lab 49: 363 [may be Fr. scandens or not]
	Hattori	1981	6431	annotations in hb G: "This material came from New Zealand or the neighbourhood and belongs to Fr. scandens complex (even if not conspecific with Fr. scandens)" Nov 1981
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 122
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-105, microfiche 51 fig 3490 ["ad Frull scandens, Hawai, Voyage Astrolabe"]
	Schäfer-Verwimp & Winter	2023	6430	Frahmia 39: 12 [possibly is conspecific with F. scandens or F. patula]

aterrima (Hook.f. & Taylor) Gottsche, Lindenb. & Nees 1845 782

Subgenus: Diastaloba Diastaloba I

Typus:

in hb BM (Lord Auckland's Group, Antarctic Expedition, J.D. Hooker, 1839-1842, perigonia + perichaetia) [lectotypus nov, 2010 by Konrat, Hentschel, Heinrichs, Braggins & Pócs]
in hb S (top right-hand corner) [isolectotypus nov, 2010]
in hb GLM 05950 -

Basionym: Jungermannia aterrima Hooker & Taylor 1844

Distribution: Australia (QLD, VIC, NSW), Tasmania, New Zealand, Auckland Isl [New Zealand], Campbell Isl [New Zealand]

Gottsche, Lindenb. & Nees	1845	2850	Syn Hepat: 450-451
Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 162 [New Zealand]
Hooker	1867	1154	Handbook New Zealand Flora: 538 [New Zealand, N Island, Lord Auckland's group]
Stephani	1911	686	Spec Hepat 4: 657-658
Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 385-386
Hodgson	1962	658	Rec Dominian Mus 4 (11): 124 [Auckland Isl, Campbell Isl]
Bonner	1965	655	Index Hepat 5: 239
Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]
Hattori & Mizutani	1981	495	J Hatt Bot Lab 52: 446 [Tasmania]
Hattori	1983	499	J Hatt Bot Lab 54: 133-135, fig 50
Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 179 [[TAS, New Zealand, Subarctic Isl.]
Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-87, microfiche 49 fig 3335 ["Auckland Island, (Bescherelle leg), (Original aus Herb Montagne) Bescherelle missit"]
Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 179 [not yet found in VICT, but in Tasmania]
Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Tasmania]
Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 157 [Checklist Tasmania]
Hattori	1988	429	Nova Hedwigia Beih 90: 147 [Australia: QLD]
Jarman & Fuhrer	1995	78	Mosses liverworts rainforest Tasmania: 123
Jarman & Kantvilas	1995	1575	New Zealand J Bot 33: 68 [Tasmania, on old Huon pine tree]
Jolley & Milne	1998	2423	Australasian bryol newsletter 39: 10 [Australia, Victoria, Grampians NP]
Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
Konrat, Braggins & Harris	1999	1246	Bryologist 102(2): 240-248 [new technique to investigate the capsule wall]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Konrat & Braggins	1999	725	Trop Bryol 17: 104, 105 [New Zealand (North Isl); commonly epiphyllous]
Jarman & Kantvilas	2001	1161	Tasforests 13(2): 212 [Tasmania]
Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 7 [initial branching appendages]
Jarman & Kantvilas	2001	1157	Tasforests 13(2): 239 [Tasmania]
Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 246 [field guide, Tasmania, Victoria, New South Wales]
Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia (QLD, VIC, TAS)]
Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 440 [chemosystematic; sesquiterpene lactone-type]
Konrat & Braggins	2003	993	New Zealand J Bot 41: 55-62 [Tasmania, comparison with hattorii, aterrima & rostrata]
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 6th of 6 pages[Key to Frullania of New Zealand; throughout] as Fr "atterima"
Grove	2004	1160	Species list for the Warra LTER site: 12 [Tasmania]
Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD VIC TAS]
Konrat, Braggins, Asakawa & Toyota	2006	1465	J H B L 100: 553-576
Konrat, Hentschel, Heinrichs, Braggins & Pócs	2010	2377	Nova Hedwigia 91(3-4): 488-493, fig 1, 2, 3, 6, 7 [lectotypification]

aterrima var. lepida E.A.Hodgs. 1949 783

Subgenus: Diastaloba Diastaloba I

Typus: New Zealand, North Island. High land E. of Waiotapu V., on manuka, Kaingaroa Plains (near Murapara], ca. 1500 ft 24/6/1934, K.W.A. H501

in hb MPN 21029 [lectotypus in Konrat, Hentschel, Heinrichs, Braggins & Pócs 2010]

Basionym:

Distribution: New Zealand

	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 386
	Bonner	1965	655	Index Hepat 5: 239
	Schuster	1970	761	J Hatt Bot Lab 33 <266-304>
	Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]
	Hattori & Mizutani	1982	495	J Hatt Bot Lab 52: 446
	Hattori	1983	499	J Hatt Bot Lab 54: <133-185>
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 4 & 8 [initial branching appendages]
	Setzepfand	2002	1159	Epiphytische Vegetation auf Weinmannia racemosa, Neuseeland [Diss]: 117-118 [New Zealand, endemic]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 440 [chemosystematic; sesquiterpene lactone-type]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
- nom. & stat.nov.	Konrat, Hentschel, Heinrichs, Braggins & Pócs	2010	2377	Nova Hedwigia 91(3-4): 482-488, fig 1, 4, 5 [lectotypification, nom. & stat. Nov.]

atrata (Sw.) Nees ex Mont. 1839 755

Subgenus: Meteoriopsis Intumescentes

Typus:

in hb P 196 & 198
in hb S (hb SWARTZ) S-B24877 [holotype}

Basionym: Jungermannia atrata Sw. 1788

Distribution: Mexico, Guatemala, Belize, Costa Rica, Cuba, Jamaica, Haiti, Martinique, Dominica, Guadeloupe, Dominican Rep, Bolivia, Colombia, Ecuador, Venezuela, Trinidad, Galapagos Isls (Floreana, San Cristóbal, Pinzón)[Ecuador], Guyana, Brazil, Argentina, ?Society Isl (Tahiti)

	Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
	Montagne	1839	465	Ann Sci Nat Bot, ser 2, 12: 51 [Brasil]
comb nov	Nees in Montagne	1839	257	Alcide d'Orbigny, Voyage l'Amerique Merid 7 (2): 68
	Montagne	1839	465	Ann Sci Nat Bot, ser 2, 12: 51
	Montagne	1841	468	Ann Sci Nat Bot, ser 2, 16: 128 [Brasil]
	Nees in G., L. & N.	1845	2850	Syn Hepat: 463-464
	Gottsche	1863	103	Separata of Mex. Leverm.: 254
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 350-351 [Mexico]
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 38-39
	Stephani	1886	944	Bol Soc Broteriana 4: 180 [152] [South Africa]
	Spruce	1888	1061	Rev Bryol 15 (3): 33 [Rio Janeiro]
	Stephani	1888	938	Hedwigia 27: 280 [Puerto Rico]
spec nov	Spruce	1890	898	Mem Torrey Bot Club 1: 118 [Brasil]
	Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 222
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134
	Spruce	1895	238	J Linn Soc Bot 30: 333 [Dominica]
	Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 64 [Usambara 1100m, Kamerungebiet - Tropenwald]
	Robinson & Greenman	1895	675	Amer J Sci Arts, ser 3, 50: 149 [Galapagos Isls: San Cristóbal]
	Stephani in Brown	1901	1284	Trans Linn Soc London, ser 2 (Bot) 4: 100 [Summit of Roraima, British Guiana]
	Evans	1902	665	Proc American Acad Sci 38(4) 100 [Galapagos Isls: Floreana, Pinzón]
	Duss	1904	3132	Flore Cryptogamique des Antilles Françaises: 132 [Martinique]
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134
	Stephani	1911	686	Spec Hepat 4: 599-600
	Pagan	1939	931	Bryologist 42: 79 [Puerto Rico]
	Herzog	1942	874	Beih Bot Centralbl 61 B: 577 [Ecuador]
	Pagán	1942	3152	Bryologist 45(4): 108 [Guadeloupe]
	Clark & Svihla	1945	316	Bryologist 48: 187-189, fig 1-20
	Clark & Svihla	1948	325	Bryologist 51: 23 [key to Fr. of Middle America: (Mexico), Guatemala, Costa Rica, Jamaica, Puerto Rico, Guadeloupe, Trinidad (Venezuela, Guiana, Brazil), Ecuador (Bolivia)]
	Clark	1953	1106	Proc California Acad Sci 4 ser, 27 (18): 602 [Galapagos Isls: Isabella, Santa Cruz, Floreana]
	Arnell	1959	448	Svensk Bot Tidskr 53 (4): 500 [Martinique]
	Bonner	1965	655	Index Hepat 5: 240
	Fulford	1967	1196	Acta Bot Venezuelica 2(5-8): 93 [Argentina, Auyan-tepui]
	Fulford, Crandall & Stotler	1971	662	J Arnold Arboret 52: 451 [Puerto Rico]
	Reed & Robinson	1971	1406	Phytologia 21 (1): 19 [Costa Rica: Monteverde]
	Bryant, Crandall-Stotler & Stotler	1973	4689	Canadian Journal of Botany 51 (9): 1545-1554 [Puerto Rico]
	Winkler	1976	5	Rev Bryol Lichen 42 (3): 811 [Colombia]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 3 Galapagos Isls]
	Mägdefrau	1983	1206	Nova Hedwigia 13: 21 [Venezuela]
	Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 122
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Steyermark & Maguire	1984	1205	Acta Bot Venezuelica 14(3): 70 [Venezuela]
	Yano	1984	501	J Hatt Bot Lab 56: 503 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-14, microfiche 55 fig 3785 ["Guadeloupe (Husnot legit) (dedit Gottsche)"] - 3786
	Fulford	1987	99	Mem NY Bot Gard 45: 272 [Dominica]
	Kron	1988	510	J Hatt Bot Lab 64: 355, fig 6(i-l) [key]
	Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]

Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 40 [Mexico, distribution]
Morales Z.	1991	307	Trop Bryol 4: 36-37 [Costa Rica]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Gradstein	1993	2265	Trop Bryol 7: 81 [Bryophyta Neotropica Exsiccata: Ecuador (286), also in F]
Weaver	1994	4271	Bano de Oro Natural Area Luquillo Mountains, Puerto Rico
Gradstein in Zizka & Klemmer	1994	1118	Kl Senckenbergreihe 20: 60 [Galapagos]
Stotler in Seaward & FitzGerald	1996	1092	Richard Spruce, Roy Bot Gard Kew: 133, fig 15-16 [subgen Meteoriopsis]
Kappelle	1996	1409	Los Bosques de Roble, Cordillera de Talamanca, Costa Rica: 257
Whittemore & Allen	1996	653	Bryologist 99 (1): 65 [Belize]
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
Pinzon & Linares	2001	1148	Caldasia 23(1): 241 [Colombia, La Herrera]
Kattel	2002	1032	Liverworts of Nepal, Katmandu: 16 [Nepal]
Uribe & Gradstein	2003	1071	Crypt Bryol 24 (3): 196 [Frullania atrata (Sw.) Dumort., Recueil Observ. Jungerm.: 13. 1835, nom. inval.]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 83, fig 26(a-c) [Brazil] [belongs to sgen Frullania]
Uribe & Gradstein	2003	1071	Crypt Bryol 24 (3): 196-200, fig 1(a-h), 2(a-e) [not lectotype of subgen. Meteoriopsis, belongs to subgen Thyopsiella]
Rico & Pocs	2004	1166	Crypt Bryol 25 (3): 259 [Venezuela, Roraima-tepui]
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Martinez	2005	2307	Cuba: Parque Nacional "Alejandro de Humboldt", p. 221
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Campelo & Porto	2007	1486	Acta bot bras 21(1): 187 [Brazil]
Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]
Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 383 [Dominican Republic, Hispaniola]
Churchill, Neill, Jaramillo & Quizhpe	2009	3810	Tropical Bryology 30: 94 [Ecuador, On tree trunk. 900-1000 m. Only known from Morona-Santiago Province]
Schäfer-Verwimp	2010	2460	Crypt Bryol 31(4): 346 [Dominica, West Indies]
Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 47-48 [Brazil]
Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 48 [Brazil]
Schäfer-Verwimp	2010	2460	Crypt Bryol 31(4): 346 [Dominica, West Indies]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 355, fig 2(a-h) [Colombia; synopsis of Frullaniacae & keys]
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe], 251 [Martinique]
Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 20-21 [Ecuador]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [new to Colombia]
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Lima	2019	5121	Frullania no Brasil [Thesis]: 142-145, fig. 17 [distribution]
Gradstein	2021	5642	Mem NY Bot Gard 121: 358-359, fig. 36c,d [key -Ecuador, Colombia]

atrata var. flaccida (WEBER) Nees 1845 789

Subgenus: Meteoriopsis Intumescentes

Typus: "In Amwerica australi ad Oronocco" sd, Alexander Humboldt

hb WILLDENOW, hb WEBER

Basionym: Jungermannia atrata var. flaccida Weber 1815

Distribution: Peru, Colombia

	Nees in G., L. & N.	1845	2850	Syn Hepat: 464
	Gottsche	1864	478	Ann Sci Nat Bot, ser 5, 1: 175
	Bonner	1965	655	Index Hepat 5:
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]

atrata var. mexicana Nees 1845 791

Subgenus: Meteoriopsis Intumescentes

Typus: Mexico. "in regio Mexicano", Zacuapan ? Leibold & Miquel

in hb S (B22581, B22585) [possible typus])

Basionym:

Distribution: Mexico

	Nees in G., L. & N.	1845	2850	Syn Hepat: 464
	Gottsche	1863	103	Separata of Mex. Leverm.: 254
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 350-351 [Mexico]
	Bonner	1965	655	Index Hepat 5: 240
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 40 [Mexico]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Myrdal	2002	1276	Mosskollekter [Frullania types in hb S]

attenuata Steph. 1911 794

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea sd, L. Loria 100pp

in hb G G00069171 - n° SIB 126163/1 - G14229 ("Unicum") [holotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia (Ceram)

spec nov	Stephani	1911	686	Spec Hepat 4: 538-539
	Verdoorn	1930	293	Ann Bryol Suppl 1: 105, fig 178-179
	Verdoorn	1930	549	Nova Guinea 14 (4): 543
	Bonner	1965	655	Index Hepat 5: 241
	Hattori	1973	540	J Hatt Bot Lab 37: 68-69, fig 30 [from type]
	Hattori	1975	547	J Hatt Bot Lab 39: 279
	Hattori	1980	489	J Hatt Bot Lab 47: 107-109 [syn sub Fr. armitiana var longe-attenuata]
	Hattori	1982	495	J Hatt Bot Lab 51: 214 [as valid species]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 101 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-132, microfiche 59 fig 4063 [N Guinea, Coria 100 pp, Unicum"]
	Hattori	1986	507	J Hatt Bot Lab 60: 242 [Seram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 27, fig 1
	Hattori	1988	516	J Hatt Bot Lab 65: 416-418 [PNG, Mt. Alb. Edward]

auriculata S.Hatt. 1985 798

Subgenus: Trachycolea

Typus: Fiji. Mt. Victoria, 700-980m -.8.1982, N. Kitagawa 23455

in hb NICH [holotypus]
in hb TNS [isotypus]

Basionym:

Distribution: Fiji

	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 11-13, fig 1

austinii J.J.Atwood, Vilnet, Mamontov & Konstant. 2020 2505

Subgenus: Frullaniopsis

Typus: USA, Wisconsin, Iowa County, Governor Dodge State Park, along the Pine Cliff Trail, west of Cox Hollow Lake 3 November 2012, Brinda 4170

holotype MO, isotype MHA, paratypes cited.

Basionym:

Distribution:

spec nov	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 231-233

azorica Sim-Sim, Sérgio, Mues & Kraut 1995 748

Subgenus: Trachycolea Trachycolea

Typus: Azores, Terceira, Porto Martins, Praia da Vitória 16.2.1991, Gabriel & Borges sn

in hb LISU 156109 [holotypus]
in hb LISU 156110, 156108, 156118 [paratypus]
in hb MACHADO [paratypus]

Basionym:

Distribution: Portugal, Azores [Portugal], Madeira [Portugal], Canary Isl (Fu Go GC Hi Pa Te)[Spain]

spec nov	Sim-Sim, Sergio, Mues & Kraut	1995	1	Crypt Bryol Lichen 16 (2): 111-123, fig 1-2
	Sim-Sim	1997	688	Portug Acta Biol (B) 17: 49-50, fig 3 [Madeira]
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 136-140, fig 28(a-m), 29 [Portugal, Madeira]
	Sim-Sim, Lloret & Grolle	1999	726	Nova Hedwigia 68: 220 [characters of Fr. muscicola, riparia, cesatiana, azorica]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia] & 124
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Izquierdo Zamora	2001	2885	Lista especies silvestres Canarias, banco datos bidiversidad: 89 [Canarias: H P G T C F]
	Dierssen	2001	779	Bryophyt Bibl 56: 215-216 [ecology in European bryophytes]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 16 [Distribution in Europe and Macaronesia]
	Lara et al.	2003	1317	Bol Soc Esp Briol 22/23: 14 [Canary Island, Fuerteventura]
	Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 164 [annotated checklist of Portugal]
	Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
	Frahm	2005	1356	Trop Bryology 26: 74 [Azores]
	Gabriel, Pereira et alii	2006	2238	AMCS Bulletin 19 / SMES Boletín 7: 261 [Portugal, Azores, Graciosa Isl]
	Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 108 [Madeira, annotated catalogue]
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Canary Isl., Madeira, Portugal]
	Lima, Dirkse, Núñez & González Mancebo	2009	1262	Lista especies silvestres Canarias,108 [Canarias: H P G T C F]
	Casus, Brugués, Cros, Sérgio, Infante	2009	1983	Handbook Liverw Iberien penins & Bal Isl., 143, fig 52(10-12) [Portugal]

azureomontana Schäf.-Verw. & Gerh. Winter 2022 2541

Subgenus: Diastaloba Diastaloba I

Typus: JAMAICA, St. Thomas: Blue Mountains, Weg zwischen Portland Gap und Blue Mt. Peak, Elfinforest entlang Kammweg, epiphytisch 15. Dez. 2013, leg. A. Schäfer-Verwimp 35391/D

Holotype: JE! isotype: FR
Paratype: JE!, FR!

Basionym:

Distribution: Jamaica

	Schäfer-Verwimp& Winter	2022	6266	Frahmia 30: 1-12, figs. 1-16[Jamaica]

baerlocheri Heinrichs, Reiner, Feldberg, von Konrat, Hentschel, Vána & Schmidt 2011 2324

Subgenus: Incertae sedis

Typus: Myanmar Amber

Basionym:

Distribution: Fossil (Albian) in amber, Myanmar

spec nov	Heinrichs et allii	2011	3151	Rev Palaeobot Palyno 169: 26- 27 , fig 2-3, pl 4
	Li, Li Feldberg et al	2021	5879	Cretaceous Research 124, 104803: 1-10 [Fr pinnata as syn]
	Feldberg et al.	2021	5972	Bry Div Evo 43(1): 34, fig 6A

baileyana Steph. 1910 96

Subgenus: Trachycolea Australes

Typus: Australia, Queensland sd, F. M. Bailey sn

in hb G G00069169 - n° SIB 125541/1 - G19195 (hb STEPHANI 183) [holotypus]

Basionym:

Distribution: Australia (QLD, NSW)

spec nov	Stephani	1910	686	Spec Hepat 4: 417 [as Trachycolea]
	Stephani in Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 106 [Australia]
	Bonner	1965	655	Index Hepat 5: 242
	Hattori	1979	486	J Hatt Bot Lab 46: 123-124, fig 30(a-g) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-195, microfiche 53 fig 3600 ["Queensland, F.M. Bailey 3, Brotherus"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Australia: QLD & NSW]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland; may be conspecific with Fr yorkiana]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia (QLD, NSW)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW]

baladina Gottsche 1894 98

Subgenus: Trachycolea Australes

Typus: New Caledonia. Balade sd, Vieillard 1770

in hb G (ex hb PC)

Basionym:

Distribution: Fiji, New Caledonia

spec nov	Gottsche ex Stephani	1894	228	Hedwigia 33: 140
	Stephani	1910	686	Spec Hepat 4: 446 [as Trachycolea]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 158 [New Caledonia]
	Bonner	1965	655	Index Hepat 5: 242
	Hattori	1976	80	J Hatt Bot Lab 40: 506
	Hattori	1977	479	J Hatt Bot Lab 43: 410 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 122
	Hattori	1984	503	J Hatt Bot Lab 57: 405-406, fig 1(a-j) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-106, microfiche 51 fig 3491 [from type; "N Caledonia Balade, leg Vieillard No 1770"]
	Hattori	1986	506	J Hatt Bot Lab 60: 219
	Pócs	2008	1812	Fieldiana Bot 47: 148 [Fiji - very close to or identical with F. campanulata Sande Lac. and with F. cataractarum Steph.]

baladina var. edentata S.Hatt. 1984 99

Subgenus: Trachycolea Australes

Typus: New Caledonia, Montagna des Sourees, NE of Noumea. 400 m. 23 July 1982. N. Kitagawa 21595

in hb NICH [holotypus]

Basionym:

Distribution: New Caledonia

var nov	Hattori	1984	503	J Hatt Bot Lab 57: 407, fig 1(k-p)
	Hattori	1986	506	J Hatt Bot Lab 60: 219
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 21: Holotype. New Caledonia, Montagna des Sourees, NE of Noumea. 400 m. On tree trunk. 23 July 1982. N. Kitagawa 21595 (NICH 387695).

baltica Grolle 1985 2241

Subgenus:

Typus: Fossil. Inclusion in Amber, Eocene

Basionym:

Distribution: Fossil (Eocene) in Baltic & Bitterfeld amber, Germany

spec nov	Grolle	1985	621	Prace Muz Ziemi z 37: 89-90, fig 1(a-b), pl 1
	Grolle	1998	705	Nova Hedwigia 66 (3-4): 451-456, pl 1-3
	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 18-19, pl. 5(a-f)
	Feldberg et al.	2021	5972	Bry Div Evo 43(1): fig 6F

baumannii S.Hatt. 1977 100

Subgenus: Diastaloba Diastaloba II

Typus: New Caledonia. Hill slopes S of "Marais Kiki" 23.8.1950, M.G. Baumann-Bodenheim 6369

in hb NICH [holotypus]
in hb HÜRLIMANN [isotypus]

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1977	479	J Hatt Bot Lab 43: 410-411, fig 1-2 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 122 [as "baumanii"]
	Hattori	1984	503	J Hatt Bot Lab 57: 407
	Hattori	1986	506	J Hatt Bot Lab 60: 223
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 21: Holotype. New Caledonia, hiH slope of Marais Kiki. On tree bark. 27 Sept. 1950. M. G. Baumann-Bodenheim 6369 (NICH 353820).

beauverdii Steph. 1916 102

Subgenus: Chonanthelia Cladocarpicae

Typus: Bolivia. Im unteren Corani-Tal, ca 2000m -.5.1911, Herzog 4727

in hb G G00060662 - n° SIB 131166/1
in hb S (B22590) [isotypus]

Basionym:

Distribution: Bolivia {subalpin regions}

spec nov	Stephani	1916	222	Biblioth Bot 87: 241-242, fig 191 [Bolivia]
	Stephani	1924	687	Spec Hepat 6: 536-537 [as spec nov]
	Bonner	1965	655	Index Hepat 5: 244
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 21, microfiche 46 fig 3094-3095 [from type; "Bolivia Herzog no 4727"]
	Yuzawa & Koike	1989	519	J Hatt Bot Lab 66: 349-359
	Yuzawa	1991	525	J Hatt Bot Lab 70: 271-274, fig.46-47, map 5d(:284)
	Myrdal	2002	1276	Mosskollekter [Frullania types in hb S]
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)

bella Steph. 1911 105

Subgenus: Diastaloba Diastaloba I

Typus: New Caledonia. Ile de Pins, forêt du Condo -.5.1909, Le Rat sn

in hb G G00128074 - n° SIB 143806/4 (hb Gén Paris 49)
/ ? 2.10.1905 Le Rat, L [isotypus] / 1910, Le Rat (EGER)
in hb HBG

Basionym:

Distribution: New Caledonia (Isle of Pines)

spec nov	Stephani	1911	686	Spec Hepat 4: 643-644
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 169-170 [New Caledonia]
	Bonner	1965	655	Index Hepat 5: 244
	Hattori	1977	479	J Hatt Bot Lab 43: 413-414 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 122
	Hattori	1984	503	J Hatt Bot Lab 57: 407
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-58, microfiche 49 fig 3298 [from type; " Nova Caledonia, lg Mmme Lerat, Herb Gèn Paris 49"]
	Hattori	1986	506	J Hatt Bot Lab 60: 228-229, fig 10
	Feuerer	2008	2517	in hb HBG: http://www.biologie.uni-hamburg.de/bzf/herbar/hbg_bryophytes.htm

belmorensis Steph. 1914 106

Subgenus: Trachycolea Australes

Typus: Australia. NSW, Belmore Falls 5.10.1908, W. W. Watts 931

in hb G G00069143 - n° SIB 124196/1 - G18197 (ex hb Rev. W.W. WATTS 931 HEPATICAE AUSTRALIANAE) [holotypus]
in hb NSW 249560 [isotypus]

Basionym:

Distribution: Australia (NSW, QLD)

spec nov	Stephani in Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 106
	Bonner	1965	655	Index Hepat 5: 244
	Hattori	1979	486	J Hatt Bot Lab 46: 124-126, fig 31(a-m) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-196, microfiche 53 fig 3601 ["Australia, Watts 931"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Australia: NSW]
	Hattori	1988	429	Nova Hedwigia Beih 90: 148 [Australia: QLD]
	Brown, Ramsay & Seur	1992	1140	Telopea 5(1): 74 [types in hb NSW]
	NN	2000	1085	http://plantnet.rbgsyd.nsw.gov.au/HerbLink/NSWtypes/srch.html [isotype of Fr belmorensis]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia (NSW, QLD)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW]

benjaminiana Inoue 1967 107

Subgenus: Trachycolea

Typus: Malaysia. Malay Pen., Pahang, Cameroon Highlands, Brinchang, Jl. Sultan Abu Bakar H. Inoue 11173

in hb TNS [holotypus]
in hb NICH, NY [duplicates]

Basionym:

Distribution: China (Yunnan), Malaysia (Pahang)

spec nov	Inoue	1967	2293	Bull Nat Sci Mus Tokyo 10: 158-162, fig 2(1-3), 3(1-12) [Malaysia]
	Inoue in Hattori	1975	65	Bulletin of the National Science Museum, Tokyo, Series B (Botany): 1 (3): 109-111, fig 1 [Malay Peninsula]
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 12
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 151 [new to Yunnan, China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Bai	2001	1742	Guizhou Science 19(4): 32 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 2 [Yunnan, China]
	NN	2007		http://www.type.kahaku.go.jp/TypeDB/bryophyta/73
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 21: Isotype. Malaya, Cameron Highlands, Jalan Sultan Abu Bakar. 6000 ft. 3 Sept. 1965. H. Inoue11173 (NICH 280773).
	Chuah-Petiot	2011	3242	Polish Botanical Journal 56 (1) [Checklist Malaysia]
	Jia, He	2013	4906	Species Catalogue of China, Volume 1 Plants: Bryophytes
	NN	2018	4904	Classification and Codes of Chinese Plants (Exposure draft) [National standards of People's Republic of China]
	Lee, Gradstein Pesiu, Norhazrina	2022	6217	Phytokeys 199: [Checklist Malaysia]

bergmanii S.Hatt. 1974 108

Subgenus: Trachycolea

Typus: Indonesia. West Irian, Jayawijaya: Swart Valley, Kadubak 1600-2000m -.4.1958, D. Bergmann H-64

in hb NICH 242070 [holotypus]
in hb JE [isotypus]
in hb S (22591) [typus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia, Bismarck Arch

spec nov	Hattori	1974	545	J Hatt Bot Lab 38: 192-194, fig 90
	Hattori	1982	495	J Hatt Bot Lab 51: 248
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 101-102 [New Guinea]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 44, fig 4
	Myrdal	2002	1276	Mosskollekter [Frullania types in hb S]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 21: Holotype. New Guinea, Swart Valley, Kadubaka. 1600-2000 m. On branehes. Apr. 1958. D. Bergman H64 (NICH 242070).

berthoumieui Steph. 1894 111

Subgenus: Trachycolea

Typus: Burma 1.8.1884, com. Berthoumieu

in hb G G00069173 - n° SIB 127193/1 - G14400 [Icones 72) [holotypus]

Basionym:

Distribution: China (Yunnan), Taiwan, Himalayas (E), India (Western Ghats), Nepal, Burma, Thailand, Indonesia (Ambon), Malaysia (Sabah), Borneo, Philippines

spec nov	Stephani	1894	228	Hedwigia 33: 140
	Stephani	1911	686	Spec Hepat 4: 459
	Verdoorn	1930	293	Ann Bryol Suppl 1: 37
	Bonner	1965	655	Index Hepat 5: 246
	Hattori	1974	544	J Hatt Bot Lab 38: 178 [Luzon]
	Hattori	1974	545	J Hatt Bot Lab 38: 188-190, fig 87-88
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 233 [Nepal]
	Hattori	1975	547	J Hatt Bot Lab 39: 280
	Hattori	1976	80	J Hatt Bot Lab 40: 473 [Borneo]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 448 [Thailand]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-107, microfiche 51 fig 3492 [from type; "Birma, com Berthoumieu"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 301 [Philippines]
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Kuo & Chiang	1988	948	Taiwania 33: 11 [Index of Taiwan]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Nepal]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 393-395, fig 196(1-8) [China, Yunnan]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 166
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 7, fig 4(a-o) [Japan, keys to species; in Japanese]
	Bai	2001	1742	Guizhou Science 19(4): 34, fig 2(1-8) [China, Yunnan]
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 16 [Nepal, 1910 m]
	Bai	2002	1189	Chenia 7: 2-3, fig 2(1-8) [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1099, fig 512(1-8) [China]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 28 [Catalog of Japan]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 245(1-8) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 36-38, fig 13(a-g) [checklist & revision of genus Fullania, Thailand]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]
	Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 394-396, fig 142 (a-o) [India (Western Ghats, keys]

beyrichiana (Lehm. & Lindenb.) Lehm. & Lindenb. 1845 113

Subgenus: Meteoriopsis Intumescentes

Basionym: Jungermannia beyrichiana Lehm. & Lindenb. 1833

Distribution: Central America, Mexico, Costa Rica, Cuba, Guadeloupe, Martinique, Colombia, Peru, Ecuador, Brazil, Chile

comb nov	Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 460-461
	Lehmann & Lindenberg in G., L. 6 N.	1847	2848	Syn Hepat: 783
	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 89 [Brazil]
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 44 & 48-49 [as Fr. beyrichii, orth error]
	Duss	1904	3132	Flore Cryptogamique des Antilles Françaises: 132 [Martinique]
	Stephani	1911	686	Spec Hepat 4: 519-520
	Herzog	1925	1586	Arquivos de botânica do Estado de Sao Paulo 1 (2): 46 [Brazil]
	Pagán	1942	3152	Bryologist 45(4): 108 [Guadeloupe]
	Clark & Svihla	1946	317	Bryologist 49: 146-148, fig 1-19
	Clark & Svihla	1948	325	Bryologist 51: 24 [key to Fr. of Middle America: Guadeloupe (Colombia, Brazil, Peru, Chile]
	Clark	1954	366	Bryologist 57: 235 [similar to Fr. microcephala]
	Bonner	1965	655	Index Hepat 5: 246
	Stotler	1969	4761	Nova Hedwigia 18: 442-444, pl 11
	Stotler	1970	194	The genus Frullania, separata: 442-444, pl 11
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 39-42, pl 2, map 1, [Brasil, Rio Grande do Sul]
	Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Yano	1984	501	J Hatt Bot Lab 56: 503 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 32, microfiche 57 fig 3915 ["Brasil (Sellow leg) Serra dos Orgaos"] - 3916
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 40 [Mexico]
	Pôrto	1990	77	Crypt Bryol Lichen 11 (2): 122 [Brazil]
	Buck	1994	28	Bryologist 97 (4): 422 [Vainio's specimen from Brazil at TUR]
	Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Yano & de Mello	1999	919	Iheringia, ser Bot 52: 68-69 [Brasil]
	Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 23-24 [Rio de Janeiro, Brazil]
	Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 80 & 92 [Brazil]
	Costa & Silva	2003	1440	Bol Mus Biol Mello Leitao (N ser) 16: 25 [Reserva Natural da Vale do Rio Doce, Espirito Santo, Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 83-86, fig 26(d-g) [Brazil]
	Oskada & Lisboa	2004	1233	Acta Amazonica 34(2): 198 [Brasil]
	Martinez	2005	2307	Cuba: Parque Nacional “Alejandro de Humboldt", p. 221
	Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
	Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
	Valente & Porto	2006	1487	Acta bot bras 20(2): 435 [Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 48 [Brazil]
	Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Martinique] " as Fr beyrichiana - Duss 1903"
	Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 355 [Colombia; synopsis of Frullaniacae & keys]
	Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Lima	2019	5121	Frullania no Brasil [Thesis]: 156-159, fig. 18 [distribution]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 360, fig. 36e [key -Ecuador, Colombia, rare species]

bhutanensis S.Hatt. 1971 119

Subgenus: Trachycolea

Typus: Bhutan, Thrimphu-Wang du Phodrang 1450-3200m "Bhutan: Thimphu (2450) - Sintoka Dzog - Dochu La (3250) - Yuwak (1600) - Wangdu Phodrang (1450)" in hb L 9.4.1967, Tanaka, O 287339

in hb NICH 287339
in hb L L0060920 - 971350886 [isotypus]

Basionym:

Distribution: Bhutan (endemic)

spec nov	Hattori in Hara	1971	190	Univ Mus Univ Tokyo Bull 2: 232-234, fig 23(a-u)
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Eastern Himalaya] - new species from Eastern Himalayas (Hattori 1971)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 166, fig 161(a-e]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 21: Holotype. Bhutan, Thimphu - Wangdu Phodrang. 1450-3200 m. 9 Apr. 1967.0. Tanaka (NICH 287339).
	Schäfer-Verwimp & Winter	2020	5751	Frahmia 20: 9-11, fig 8-11 [compared with Fr dasyueshanensi]

bicornistipula Spruce 1884 120

Subgenus: Meteoriopsis Intumescentes

Typus: Ecuador. Chimborazo [Andes Quitensis], Tungurahua 1500m Spruce sn

in hb US [typus]
in hb E E00293725 (sd, Spruce sn) - E00293726 (1.7.1860, Spruce sn) - E00002517 (sd, Spruce sn)

Basionym:

Distribution: Costa Rica, Panama, Venezuela, Colombia, Ecuador, Peru, Guyana

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 43-44 & 46 (No 31), pl. 2
	Jack & Stephani	1892	1089	Hedwigia 31: 13 [Peru, Neu-Granada]
	Stephani	1911	686	Spec Hepat 4: 510-511
	Clark & Svihla	1951	341	Bryologist 54: 124-126
	Stotler	1969	4761	Nova Hedwigia 18: 459-460 (No 16), pl. 23(207-208(:525))
	Stotler	1970	194	The genus Frullania, separata: 459-460 (No 16), pl. 23(207-208(:525))
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 33, microfiche 57 fig 3917 ["Chimborazo, Spruce legit"] - 3918
	Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [Guyana; as Fr. bicornistipula STEPH.]
	Gradstein & Florschütz-de	1989	1237	Trop Bryol 1: 40 [Venezuela, Mt Roraima]
	Morales Z.	1991	307	Trop Bryol 4: 37 [Costa Rica]
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Stotler in Seaward & FitzGerald	1996	1092	Richard Spruce, Roy Bot Gard Kew: 133, fig 18 [subgen Thyopsiella]
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 03 of 35 [in hb US]
	Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 178 [Checklist Panama]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Rico & Pocs	2004	1166	Crypt Bryol 25 (3): 259 [Venezuela, Roraima-tepui]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Schäfer-Verwimp & alii	2006	1474	Crypt Bryol 27 (3): 319-320 [new to Pichincha, Ecuador]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 355 [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 21 [Ecuador]
	Graham et al	2015	4766	Acta Biologica Plantarum Agriensis 4: 16 [Peru] – und andere Seiten
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Gradstein	2021	5642	Mem NY Bot Gard 121: 360-361, fig. 36f [key -Ecuador, Colombia]

billardieriana Nees & Mont. in Mont. 1843 70

Subgenus: Homotropantha Fallaces

Typus: Indonesia. Mollucas, Amboina sd, La Billardiére, sn

in hb S (B22592-B22593) [typus]
in hb G (hb STEPHANI 171)

Basionym:

Distribution: Indonesia (Ambon, Ceram), Philippines, Vanuatu (Aneityum), New Caledonia

spec nov	Nees & Montagne in Montagne	1843	470	Ann Sci Nat Bot, ser 2, 19: 256 [Amboina]
	Nees & Montagne in G., L. & N.	1845	2850	Syn Hepat: 434-435
	Montagne	1856	1912	Sylloge generum specierumque cryptogamaram: 85
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 313 [Ceram, Nova Guinea]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 321-322
	Stephani	1911	686	Spec Hepat 4: 575-576
	Stephani in Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 106 [Aneityum]
	Verdoorn	1928	242	Rev Bryol NS 1: 112-113, fig 2
	Verdoorn	1930	549	Nova Guinea 14 (4): 546 [comb nov as Fr. intermedia fo. billardieriana]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Bonner	1965	655	Index Hepat 5: 248-249 [erroreously included New Guinea; vide Hattori 1982: 263]
	Hattori	1980	490	J Hatt Bot Lab 47: 197-200, fig 20 [as distinct species; review]
	Hattori	1982	495	J Hatt Bot Lab 51: 263 [not in New Guinea]
	Hattori	1982	495	J Hatt Bot Lab 51: 239 [Sarawak specimens = Fr. intermedia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 122-123
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D- 1, microfiche 54 fig 3703 ["olim Frullania plumaeformis (bicornustipula), Nova Guinea, Fly River Branch, Bäuerlen 1885, Herb Melbourne"] - 3704 [missing]
	Hattori	1986	506	J Hatt Bot Lab 60: 221
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 335 [Philippines]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 40
	Menzel	1988	512	J Hatt Bot Lab 65: 189, footnote 49 [Bornean record = Fr. intermedia]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Myrdal	2002	1276	Mosskollekter [Frullania types in hb S]

blastopetala S.Hatt. 1984 128

Subgenus: Trachycolea

Typus: New Caledonia. Caavatch, 12 km W of Hierghéne, 70-80m -.7.1982, Kitagawa 21831

in hb NICH [holotypus]

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1984	503	J Hatt Bot Lab 57: 407-407, fig. 2 [sp. nov.]
	Hattori	1986	506	J Hatt Bot Lab 60: 208 [close to Fr. formosae ST]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 21: Holotype. New Caledonia, Caavateh, 12 km west of Hieghene. 70-80 m. 27 July 1982. N. Kitagawa 21831 (NICH 387914).

blepharozia Spruce 1884 129

Subgenus: Chonanthelia Cladocarpicae

Typus: Ecuador. Andes Quitenses, Pallatanga, 1800 m sd, Spruce sn

in hb G [isotypus]

Basionym:

Distribution: Ecuador

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 12 & 18-19 (No 6)
	Stephani	1910	686	Spec Hepat 4: 339
	Bonner	1965	655	Index Hepat 5: 250
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 23ab, microfiche 46 fig 3100-3101 [from isotype; "Andes Quitenses leg Spruce"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 274-276, fig. 48 [from type], map 5d(:284)
	Asakawa, Sono, Wakamatsu, Kondo, Hattori & Mizutani	1991	1682	Phytochemistry 30(7): 2297 [World map of Fr tamarisci subspecies]
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
	Gradstein	2021	5642	Mem NY Bot Gard 121: 361 [key -Ecuador]

bogotensis Steph. 1910 130

Subgenus: Chonanthelia Cladocarpicae

Typus: Colombia, Bogota sd, Apollinaire sn

in hb G G00069147 - n° SIB 126185/1 - G19792 (ex hb LACOUTURE 254) [holotypus]

Basionym:

Distribution: Colombia

spec nov	Stephani	1910	686	Spec Hepat 4: 327
	Herzog	1955	107	Feddes Repert 57 (1/2): 171 [Colombia]
	Bonner	1965	655	Index Hepat 5: 250
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 24, microfiche 46 fig 3102-3103 ["Bogota leg Apollinaire Herb Lacouture"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 246-248, fig. 34, map 6c(:250)
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 355, fig 1(a-e) [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [Endemic]
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
	Gradstein	2021	5642	Mem NY Bot Gard 121: 361, fig. 36g,h [key - Colombia]

bolanderi Austin 1869 131

Subgenus: Frullaniopsis

Typus: USA. California, Marin Co, Tomales Bay, on bark of Negundo aceroides 1864, Bolander 105B

in hb MANCH 20830 [holotypus] - in hb US [typus]
in hb MICH MICH514762 (Bolander s.n. [isotypus]
in hb PH 2881, 2882, 2883 [syntypus] > seefoto

Basionym:

Distribution: Norway, Sweden, Alaska, Canada (NF PQ NS ON BC?), USA (AZ CA OR WA ME VT OH MI WI MN IA), Russia (Siberia, Far East), China (Fujian, Yunnan), Korea, Japan (Hokkaido, Honshu), India

spec nov	Austin	1869		Proc Acad Nat Sci Philadelphia 1869 (Separata): 9
	Bolander	1870	3472	California Medical Gazette2: 184
spec nov	Austin	1870	1339	Proc Acad Nat Sci Philadelphia 21: 226-227
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 8-10 (No 3), pl. 2
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 45 [Vancouver Isl]
	Stephani	1910	686	Spec Hepat 4: 432
	Sanborn	1929	3503	Univ Oregon publ Pl Biol 1(1): 88 [Oregon]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 768-769, fig Fr.b.(1-8)
	Schuster	1953	604	Amer Midl Nat 49 (2): 565-567, pl. 72(1-4)
	Schuster	1958	1468	Rhodora 60 (716): 225-230 [aus 1219]
	Ladyzhenskaja & Zinovjevo	1964	431	Nov Syst Plant non Vascul 1964: 269-278, fig 1 [world map], 2-3
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 315 [key to europe & macaronesia]
	Hattori	1975	410	Misc Bryol Lichen 7 (2): 29, fig. 1-3 [Japan]
	Grolle	1976	183	Feddes Repert 87 (3/4): 193 [type]
	Hattori	1981	491	J Hatt Bot Lab 49: 159-161, fig 247-248(a) [key to Japanese Fr. dilatata-complex]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 253 [Fo: Japan]
	Düll	1983	620	Bryol Beitr 2: 67 [Europe & Macaronesia]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 131-132 [Fo: China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 80c, microfiche 51 fig 3448 ["California, Bolander"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 80a, microfiche 51 fig 3446 ["Am sept, Evans tab 2"]
	Damsholt & Hallingbäck	1986		Lindbergia 12: "174-176"
	Hong	1989	689	Bryologist 92 (3): 366 [key to N-American species]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 259 [key to Europe & Macaronesia] & 263
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:101 [USSR]
	Schuster	1992	603	Hepat N America 5: 167-176, fig. 792(9-14), 795A(1-3), 799, 800(9-20)
	Konstantinova & Vasiljev	1994	650	Arctoa 3: 130 [Siberia, Sayan Mt.]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 115 [key to european species]
	ECCB	1995	1431	Red Data Book European Bryophytes: 53 [Status endandered E]
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 04 of 35 [in hb US]
	Jonsson	1996	654	Bryologist 99 (2): 233 [Oregon, USA]
	Fogel	1997	629	http://141.211.110.91/livrqury.htm [16.11.1997] - Genus=Frullania, printed 5.1.1998 11:11:38: page 1 of 3
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Gambaryan	1998	1222	Chenia 5: 132 [Russia Far East]
	Miller & Miller	1998	1219	J Torrey Bot Soc 125(2): 109-116 [USA, in old-growth forests]
	Qian & Klinka	1998	2262	Plants of British Columbia: 339 [Canada]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Söderström	2000	765	Lindbergia 25: 43 [China]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia] & 124
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 397 [China, Yunnan]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 7, fig 5(a-p) [Japan, keys to species; in Japanese]
	Bai	2001	1742	Guizhou Science 19(4): 34 [China, Yunnan]
	Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (ME)]

	Söderström	2001	1479	ECCB Red Listing of European Bryophytes. [Vulnerable (earlier Endangered)] - http://www.bio.ntnu.no/ECCB/Red/Hepatophyta/Frullania%20bolanderi.pdf
	Dierssen	2001	779	Bryophyt Bibl 56: 216 [ecology in European bryophytes]
	Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 608-610, fig 245, pl 232(1-6) [Northern Europe]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 16 [Distribution in Europe and Macaronesia]
	Bai	2002	1189	Chenia 7: 3 [Yunnan, China]
	Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, Fujian Prov.]
	Söderström, Hassel & Weibull	2002	2672	Distribution maps - Northwestern Europe, vol 1: 19 [map]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1103, fig 514(1-6) [China]
	Lyman	2003	1268	Checklist of Wisconsin bryophytes [USA]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean peninsula]
	NN	2005	1395	[in Russian] page 2 of 3
	Fenton & Frago	2005	1294	Biol Conservation 122: 426 [Canada; remnant canopy in managed forests]
	Otte	2006	1473	Herzogia 19: 353-355 [first record in the Caucasus]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Lincoln	2008	1712	Memoir New York Bot Gard 99: 123 [New England States, USA]
	Hassel & Söderström	2008	1678	Myrinia 18(1): 16-22 [Norway, Sweden]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 14 [Checklist of liverworts of Russia: EUR, CAUC, SIB, FAR EAST]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 240(1-6) [key in Chinese]
	Peters & Davison	2010	2537	Evansia, 27(4):118-120 [occurrence in Maine, USA]
	Lye	2014	3929	Herzogia 37: 6-21 [Frullania bolanderi in Europe]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]
	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 201-242 [belong to subg. Frullaniopsis subgen. nov.]
	Dulin & Semenova	2021	6088	J Bryoloy [Russian Federation (Komi Republic)]
	Rawat et al.	2021	6068	Current Science 121(10): 1279-1280 [India (Arunchal Pradesh)]

bonariensis M.E.Reiner 1988 2276

Subgenus: Chonanthelia Pluricarinatae

Typus: Argentina. Prov Buenos Aires, Pdo Morón, INTA Castelar 5.5.1986, Reiner 486 in hb BA (34020) [holotypus]

Basionym:

Distribution: Argentina (Entre Ríos, Buenos Aires)

spec nov	Reiner	1988	1043	Bol Soc Argentina Bot 25 (3-4): 313-316, fig 5(a-m) [Argentina, Prov Buenos Aires]
	Drehwald & Reiner-Drehwald	1996	1202	Crypt Bryol Lichenol 17(4): 279-286 [Buenos Aires, Argentina]

bonincola S.Hatt. 1978 135

Subgenus: Trachycolea

Basionym: Frullania viridis Horikawa 1930 [hom illeg] [non Colenso 1888, nec Horikawa 1934] {Bonin}

Distribution: Bonin Isl, Taiwan

nom nov	Hattori	1978	482	J Hatt Bot Lab 44: 551-553, fig 218 [nom. nov., only specimen from Bonin Isl, Taiwan specimen belong to monocera]
	Hattori	1980	489	J Hatt Bot Lab 47: 104 [Fr. viridis from Taiwan belongs to Fr monocera]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 123
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [not fromChina] & 139-140 [annotations about Formosa specimen]
	Chao & Lin	1991	458	Yushania 8: 8-10, fig. 1(a-m) [Taiwan]
	Chao & Lin	1992	460	Yushania 9: 198, fig 2(a-f) [Taiwan]
	Lin & Chen	1997	1130	Biol Bull 75: 83-85, fig 2(a-d) [Taiwan, key to species, in Taiwanese]
	Furuki	1997	1689	J Nat Hist Mus Inst Chiba 4(2): 104 [Iwo (Volcano) Islands, Northwestern Micronesia]
	Lin	2000	1524	Liverwort Flora Taiwan: 156, fig p 156(1-4) [Taiwan]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 7, fig 6(a-i) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

borbonica Lindenb. 1845 137

Subgenus: Meteoriopsis Obtusilobae

Typus: Reunion Isl.

?

Basionym:

Distribution: Kilimanjaro, Madagascar, Mauritius, Reunion

spec nov	Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 455 (No 100)
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Bourbon]
	Stephani in Levier	1901	1456	Rev Bryol 28 (5): 94 [Madagascar]
	Stephani	1911	686	Spec Hepat 4: 485
	Bonner	1965	655	Index Hepat 5: 251
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 13 [? correspnding to Fr. apicalis]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 16, microfiche 56 fig 3893 ["Bourbon, Renauld No 8, 47"]
	Grolle	1995	250	Bryophyt Bibl 48: 64 [afr3]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Mauritius, Madagascar, Reunion] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Mauritius, Madagascar, Reunion] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]

boveana C.Massal. 1885 138

Subgenus: Diastaloba Diastaloba I

Typus: Argentina. Staten Isles, Mt. Conegliano, "ad Fagos antarcticos" -.3.1882, C. Spegazzini 60

in hb G (ex hb MASSALONGO)

Basionym:

Distribution: Chile, Argentina (Patagonia, Tierra del Fuego), Falkland Isl [Argentinia]

spec nov	Massalongo	1885	875	Nuovo Giorn Bot Ital 17: 244-245, fig 27 [Tierra del Fuego]
	Bescherelle & Massalongo	1889	4999	Cap Horn
	Schiffner	1889	581	Forschungsreise S.M.S. "Gazelle" 4 (4): 39
	Evans	1898	4690	Bulletin of the Torrey Botanical Club 25(8): <407-431>
	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 66 [Patagonia]
	Stephani	1901	799	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (17): 32 [from South Patagonia]
	Evans	1903	3246	Hepaticae collected in Southern Patagonia
	Dusen	1903	3245	western Patagonia
	Stephani	1911	686	Spec Hepat 4: 665
	Stephani	1911	721	Kungl Svenska Vetenskapsakad Handl 45 (9): 88 [Chile: Brunswick Peninsula, Falkland Isl]
	Skottsberg	1913	6152	Kungl Svenska Vetenskapsakad Handl 50 (3): 113 [Falkland]
	Gola	1923	823	Nuovo Giorn Bot Ital, ser 2, 29: 172
	Massalongo	1927	1060	Atti Real Ist Veneto Sci 87 (2): 217 [Argentina, Spegazzinius legebat]
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 166 [Patagonia, Tierra del Fuego]
	Kühnemann	1949	657	Lilloa 19: 354 [Argentina: Patagonia, Tierra del Fuego]
	Engel	1976	5919	Annales Botanici Fennici 13: <132-136>
	Engel	1978	182	Fieldiana Bot 41: 235-236 [Chile: Brunswick Peninsula]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-42, microfiche 49 fig 3279 ["Staten Island leg Spruce"]
	Engel	1988	111	Fieldiana Bot NS 25: 162 [Falkland Isl.]
	NN	2001	972	British Antarctic Survey
	Villagran et al	2005	4527	Hepáticas y Antocerotes del Archipiélago de Chiloé <1-160>
	Hässel de Menéndez & Rubies	2009	2273	Catalogue South America: 136 [Argentina, Chile]
	Leon & Olivan	2014	4053	Caldasia 36(1): <23-35> [Chile, Chiloé]
	Leon et al	2014	4369	Anales del Jardín Botánico de Madrid 71(1): <27.35> [Chile, Chiloé]
	Fuerte & Prads	2019	5142	Botanica Complutensis 43: <57-73> [Argentina]
	Villarroel	2020	5918	Parque National Puyehue, Chile

brachycarpa Spruce 1889 140

Subgenus: Chonanthelia Cladocarpicae

Typus: Mexico. Prov Oaxaca sd, Galeotti 6997

[]

Basionym:

Distribution: Mexico, Bolivia, Brazil

spec nov	Spruce	1889	1122	Bull Soc Bot France 36 (Suppl) [Congres de Botanique]: CCIV-CCV [204-205]
	Dusen	1905	710	Arch Mus Nac Rio de Janeiro 13: 119 [Brasil]
	Stephani	1911	686	Spec Hepat 4: 492
	Clark	1956	377	Bryologist 59: 140-143, fig. 1-19
	Bonner	1965	655	Index Hepat 5: 252
	Yano	1984	501	J Hatt Bot Lab 56: 503 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 35ab, microfiche 57 fig 3920 ["Mexico"] - 3921 ["Mexico, Oaxaca (Galeotti legit) Herb Bescherelle"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41 [Mexico]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86 [Brazil] [seems to be a form of Fr brasiliensis with long-beaked perianth]
	Lima	2019	5121	rullania no Brasil [Thesis]: 196 [name excluded from Brazil, specimens belong to Fr brasiliensis]

brasiliensis var. cylindrica (Gottsche in Lehm.) Spruce 1884 812

Subgenus: Meteoriopsis Intumescentes

Basionym: Frullania cylindrica Gottsche ex Lehm. 1844

Distribution: Mexico

Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 50
Bescherelle	1893	3815	J Bot Morot 7 (9): 178 [Guadeloupe : Husnot (n°222).]
Duss	1904	3132	Flore Cryptogamique des Antilles Françaises: 133 [Martinique]
Bonner	1965	655	Index Hepat 5: 253

brasiliensis var. cylindrica fo. lindigii (Gottsche) Spruce 1884 813

Subgenus: Meteoriopsis Intumescentes

Basionym: Frullania cylindrica var. lindigii Gottsche 1864

Distribution: Colombia

subvar nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 20 [as "subvar lindigii Gotts Hep N Granat 77"]
	Bonner	1965	655	Index Hepat 5: 253

brasiliensis Raddi 1822 144

Subgenus: Meteoriopsis Intumescentes

Typus: Brazil ("ex Amer. Merid. Brasilia"), Rio de Janeiro Co.[Tijuca NP, Corvocado Mt.] "Trovasi frequentamente sulle Montagne suddette, ed anche sul Corcovado" sd, Raddi sn

on hb PI 1 sample [= holotypus, COSTA 2009]
in hb FI 3 samples [isolectotypes by R. Stotler in 1999 (according to the label)] [isolectotypes, COSTA 2009]
in hb NY [lectotypus by Stotler, isolectotypus by COSTA 2009]
in hb S, hb E, hb GLM

Basionym:

Distribution: Mexico, Guatemala, Costa Rica, Panama, El Salvador, Puerto Rico, Jamaica, Guadeloupe, Venezuela, Colombia, Peru, Bolivia, Ecuador, Galapagos Isls (San Cristóbal)[Ecuador], Guyana, French Guiana, Brazil, Surinam, Chile, Argentina, Tristan da Cunha

	Raddi	1822	2873	Crittogame Brasiliane [Seperate print]: 12-13 (No 28)
	Raddi	1823	825	Mem Mat Fisica Soc Ital Sci, Modena 19: 36-37 (No 28)
	Raddi	1829	2875	Mem Mat Fisica Soc Ital Sci, Modena 20: pl. 2 (fig. 3)
	Hooker & Wilson	1844	1595	London J Bot 3: 167 [Brazil]
	Raddi in G., L. & N.	1845	2850	Syn Hepat: 458 (No 106)
	Hampe	1851	281	Linnaea 24 (3): 303 [Costa Rica]
	Hampe	1854	284	Linnaea 27: 555 [Chile/Peru]
	Mitten in Seemann	1857	1494	Bot Voyage HMS Herald: 246 [Panama]
	Gottsche	1863	103	Separata of Mex. Leverm.: 246
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 342 [Mexico]
	Reichardt	1870	884	Reise österr Fregatte Novara, Bot Theil, Bd 1: 153 [Brazil]
	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 89 [Brazil]
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 44-45 & 50-51 (No 37)
spec nov	Spruce	1890	898	Mem Torrey Bot Club 1: 118 [Brasil]
	Pearson	1891	1921	Christiania Videnskabs-Selskabs Forhandlinger 1890 (2): 6 [= Fr. longistipula, vide VANDEN BERGHEN 1976: 73] [Madagascar]
	Stephani	1911	686	Spec Hepat 4: 490-491
	Evans	1914	235	Trans Connet Acad Arts Sci 18: 343-344 [Peru]
	Stephani	1916	222	Biblioth Bot 87: 242 [Bolivia]
	Herzog	1925	1586	Arquivos de botânica do Estado de Sao Paulo 1 (2): 47 [Brazil]
	Herrera	1926	2788	Chloris Cuzcoensis: 15
	Bryan	1929	175	Bot Gazette 88(3): 340-341, fig 6 [habitat][Peru, abundant]
	Pagan	1939	931	Bryologist 42: 79 [Puerto Rico]
	Herrera	1941	2789	Sinopsis de la Flora del Cuzco: 69 [Peru, Cuzco]
	Pagán	1942	3152	Bryologist 45(4): 108 [Guadeloupe]
	Clark & Svihla	1944	311	Bryologist 47: 108-112, fig. 1-34
	Clark & Svihla	1947	319	Bryologist 50: 84
	Clark & Svihla	1948	325	Bryologist 51: 24 [key to Fr. of Middle America: Mexico, Costa Rica, Panama, (Venezuela, Colombia, Brazil, Peru, Bolivia)]
	Kühnemann	1949	657	Lilloa 19: 354 [Argentina: Salta]
	Herzog	1952	444	Svensk Bot Tidskr 46 (1): 85 [Ecuador]
	Clark	1953	1106	Proc California Acad Sci 4 ser, 27 (18): 662 [Galapagos Isls: Floreana, Santa Cruz, San Cristobal, Pinta, Santiago]
	Herzog	1955	107	Feddes Repert 57 (1/2): 198 [Peru]
	Herzog	1955	107	Feddes Repert 57 (1/2): 171 [Colombia]
	Bartram & Arnell	1961	932	Bryologist 64: 248 [Galapagos Isls: San Cristobal]
	Arnell	1962	449	Svensk Bot Tidskr 56 (2): 341 [Ecuador]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 87 [Brazil]
	Robinson	1967	771	Bryologist 70: 51 [Colombia]
	Fulford	1967	1196	Acta Bot Venezuelica 2(5-8): 93 [Argentina, Auyan-tepui]
	Crandall	1969	193	Beih Nova Hedwigia 30: 81
	Stotler	1969	4761	Nova Hedwigia 18: 436-439, pl. 8, fig. 57-67(:494-495)
	Stotler	1970	194	The genus Frullania, separata: 436-439, pl. 8, fig. 57-67(:494-495)
	Reed & Robinson	1971	1406	Phytologia 21 (1): 19 [Costa Rica: Monteverde]
	Fulford, Crandall & Stotler	1971	662	J Arnold Arboret 52: 451 [Puerto Rico]
	Winkler	1976	5	Rev Bryol Lichen 42 (3): 811 [Colombia]
	Raddi [Reprint]	1976	166	Flora Brasiliana. Memorie 1819-1828 with Reprint of "Crittogame Brasiliane 1822": 108-109(No 28), pl 2 (3a-3c)
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 73 [specimen descriped by PEARSON = Fr. longistipula]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 43-49, pl 3, map 2, [Brasil, Rio Grande do Sul]
	Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 6 Galapagos Isls]

Yano	1984	501	J Hatt Bot Lab 56: 503 [checklist Brasil]
Menzel	1984	142	Willdenowia 14: 489 [Peru]
Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 37cd, microfiche 57 fig 3925 ["sub Fr Leiboldii, Costarica, ..."] - 3926 ["Frullania cylindrica Gottsche, No 1520, Mexico, leg Leibold"]
Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 37ab, microfiche 57 fig 3923 ["Bolivia, Dr Herzog 3895 (1913)"] - 3924 ["Brasilia, leg Sellow, Original!"]
Asakawa & Inoue	1987	952	Studies on cryptogams in Southern Peru, Tokyo: 111 [chemical constituents]
Inoue	1987	951	Studies on cryptogams in Southern Peru, Tokyo: 77, pl 2(fig 1) [oil bodies]
van Zanten & Gradstein	1988	88	Nova Hedwigia Beih 90: 56 [experimental dispersal geography]
Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [Guiana]
Gradstein & Florschütz-de	1989	1237	Trop Bryol 1: 40 [Venezuela, Mt Roraima]
Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]
Pôrto	1990	77	Crypt Bryol Lichen 11 (2): 122 [Brazil]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41 [Mexico]
Schäfer-Verwimp	1991	523	J Hatt Bot Lab 69: 153 [Brazil]
Morales Z.	1991	307	Trop Bryol 4: 37 [Costa Rica]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Gradstein	1993	2265	Trop Bryol 7: 81 [Bryophyta Neotropica Exsiccata: Bolovia (236, 237), also in F]
Wolf	1993	2380	Phytocoenologia 22(1): 37-38 [Colombia, Epiphyte - Lower montane rain forest communities: Plagiochila fragilis community]
Wolf	1993	2380	Phytocoenologia 22(1): 35-36 [Colombia, Epiphyte - Lower montane rain forest communities: Cheilolejeunea trifaria-Schlotheimia angustifolia community]
Wolf	1993	2380	Phytocoenologia 22(1): 38-40 [Colombia, Epiphyte - Lower montane rain forest communities: Hypotrachyna imbricatula-Rimelia reticulata community]
Wolf	1993	2380	Phytocoenologia 22(1): 40-41 [Colombia, Epiphyte - Lower montane rain forest communities: Diplasiolejeunea pauckertii-Brachiolejeune laxifolia community]
Wolf	1993	2379	Phytocoenologia 22(1): 58 [Colombia, Epiphyte - Upper montane rain forest communities: Omphalanthus filiformis community]
Wolf	1993	2379	Phytocoenologia 22(1): 74, 76 [Colombia, Epiphyte - Upper montane rain forest communities: Omphalanthus filiformis community]
Weaver	1994	4271	Bano de Oro Natural Area Luquillo Mountains, Puerto Rico
Wolf	1994	2384	Selbyana 16(2): 190 [Colombia, Epiphyte - canopy of Upper Mountain rain forest: preference for the canopy "typicum" community]
Gradstein in Zizka & Klemmer	1994	1118	Kl Senckenbergreihe 20: 59 [Galapagos]
Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
Sillett. Gradstein & Griffin III	1995	2855	The Bryologist 98: 251-260 [Catalogue of Costa Rica]
Grolle	1995	250	Bryophyt Bibl 48: 146 [non afr3]
Ibisch	1996	1260	http://www.fan-bo.org/personal/pibisch/begin/Resumenes/diss.htm, 29 pages [Bolivia]
Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana, French Guiana]
Van Dunne & Kappelle	1998	1391	Rev biol trop [online] 46 (2): page 2 of 8 [Costa Rica, montane cloud forest]
Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 178-179 [Checklist Panama]
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
Kürschner & Parolly	1998	681	Nova Hedwigia 66 (1-2): 80 [Peru]
Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 200-3800m: Colombia, Ecuador]
Yano & de Mello	1999	919	Iheringia, ser Bot 52: 69-70 [Brasil]
Stotler	1999		in hb NY on label [a small packet of original material, he designated this as the lectotype and a duplicate labeled ‘ex Herb. Hook.’ as an isolectotype]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 444 [Colombia]
Gradstein, Griffin III, Morales & Nadkarni	2000	1405	Caldasia 23(1): 208 [Costa Rica: Monteverde]
Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 24 [Rio de Janeiro, Brazil]
Grims	2001	1136	Moosherbar in hb LINZ, from Ekuador-Galapagosinseln [Internet]

Visnadi & Vital	2001	1120	Acta bot bras 15 (2): 260 [Brazil]
Merwin, Gradstein & Nadkarni	2001	1075	Trop Bryol 20: 67 [Montverde, Costa Rica]
Pichorim	2002	1422	Ornitologia Neotropical 13:Brazil [nest material of Biscutate Swift]
Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 81 & 93 [Brazil]
Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Holz, Gradstein & Heinrichs	2002	1404	Bryologist 105(3): 336-337 [Costa Rica]
Drehwald	2003	2813	Cambios en la vegetación briofítica: 283 [Ecuador (Parque Nacional Sangay)]
Drehwald	2003	2813	Cambios en la vegetación briofítica: 288 [Peru (Parque nacional Manu)]
Drehwald	2003	2813	Cambios en la vegetación briofítica: 296 [Bolivia (Parque Nacional Amboro)]
Uribe & Gradstein	2003	1071	Crypt Bryol 24 (3): 200-204, fig 4(a-h), 5(a-d) [belongs to subgen.Thyopsiella <Frullania>]
Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86, fig 26(h-k) [Brazil]
Holz	2003	1185	Diversity Ecology Montane Quercus Forest, Costa Rica [Dissertation]: 46, 76, 114, 150 [paramo & upper montane oak forest, pendants - mats - turfs]
Costa & Silva	2003	1440	Bol Mus Biol Mello Leitao (N ser) 16: 25 [Reserva Natural da Vale do Rio Doce, Espirito Santo, Brazil]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Excluenda from Africa, Madagascar] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 386, 393, 398, 415, 416, tab 1, 2, 3 & 7 [Podocarpus NP, Ecuador, epiphytic: Fr mucronata community]
Porto, Germano & Borges	2004	1446	Brejos de Altitude em Pernambuco e Paraiba: 83 [Brazil]
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Holz & Gradstein	2005	1408	J Biogeogr 32: 1595 [Costa Rica: Cordillera de Talamanca]
Camara, Oliveira & Santiago	2005	1359	Trop Bryology 26: 137 [Brazil; Distrito Federal Brasilia]
Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 94 [Ecuador; Podocarpus NP]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
Gradstein	2006	1401	Crypt Bryol 27(1): 147, 150 [French Guiana: lowland cloud forest]
Valente & Porto	2006	1487	Acta bot bras 20(2): 435 [Brazil]
Campelo & Porto	2007	1486	Acta bot bras 21(1): 187 [Brazil]
Romanski	2007	3866	Thesis [Peru, epiphytic in lower montane rainforest]
Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
Gradstein & Ilkiu-Borges	2009	1920	Mem New York Bot Gard 76(4): 45, fig 24(d-f) [French Guiana]
Costa	2009	2866	J Bryol 31: 228 (Raddi s.n., about samples in hb PI & FI,types, typification by R.E. Stotler, revised]
Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149 [Galapagos Isl, Note: one of the commonest liverworts in the Galapagos islands; in the transition zone it forms thick carpets on high branches of trees.]
Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 48 [Brazil]
Romanski et al.	2011	3486	Supplementary list to Bryologist 114(4): <720-731> [Peru]
Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 355-358, fig 3(a-d) [Colombia; synopsis of Frullaniacae & keys]
Howarth	2011	5110	Thesis: 253 [Peru, epiphytic cloud forest]
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe]
Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 21 [Ecuador]
Vana & Engel	2013	3868	Memoirs New York Bot Gard 105: 58 [Tristan da Cunha Isl.]
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.

	Lima	2019	5121	Frullania no Brasil [Thesis]: 146-153, fig. 17 [distribution]
	Gradstein & Pócs	2021	5888	Nova Hedwigia 112(1-2): 58 [Venezuela]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 361-362, fig. 36i,j [key -Ecuador, Colombia]

brasiliensis var. elegantula Spruce 1884 147

Subgenus: Meteoriopsis Intumescentes

Typus: (Brazil.) Ecuador Mt. Chimborazo & Azuay Spruce

in hb E E00002520 (Ecuador, Spruce sn) [isosyntypus]

Basionym:

Distribution: Ecuador

var nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 50-51
	Bonner	1965	655	Index Hepat 5: 253

breuteliana Gottsche 1845 166

Subgenus: Meteoriopsis Intumescentes

Typus: St. Kitts (= St. Christopher Island) sd, Breutel sn

in hb W
in hb HARV UNIV
in hb S (B22630, B22631, B22632) [typus]
in hb GLM (hb GOTTSCHE) 05976

Basionym:

Distribution: Mexico, Guatemala, St. Kitts (= St. Christopher), Guadeloupe, Dominica, Venezuela, Colombia, Ecuador, French Guiana, Brazil

spec nov	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 461
	Gottsche	1863	103	Separata of Mex. Leverm.
	Stephani	1911	686	Spec Hepat 4: 513-514
	Clark	1958	387	Bryologist 61: 146-149, fig 1-16
	Bonner	1965	655	Index Hepat 5: 254
	Stotler	1969	4761	Nova Hedwigia 18: 453-454, pl 18 (160-167)
	Stotler	1970	194	The genus Frullania, separata: 453-454, pl 18 (160-167)
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 50-52, pl 4(1-13), map 3, [Brasil, Rio Grande do Sul]
	Cole	1983	1407	Brenesia 21: 154 [Central America]
	Yano	1984	501	J Hatt Bot Lab 56: 503-504 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 38, microfiche 57 fig 3928 ["Guadaloupe"]
	Fulford	1987	99	Mem NY Bot Gard 45: 272 [Dominica]
	Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [French Guiana]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41 [Mexico, distribution]
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [French Guiana]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Myrdal	2002	1276	Mosskollekter [Frullania types in hb S]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 83 [Brazil] [close to Fr beyrichiana]
	Rico & Pocs	2004	1166	Crypt Bryol 25 (3): 259 [new to Venezuela, Roraima-tepui]
	Alvarenga, Silva et alii	2007	1485	Acta bot bras 21(2): 351, fig 12-16
	Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 48 [Brazil]
	Schäfer-Verwimp	2010	2460	Crypt Bryol 31(4): 346 [Dominica, West Indies]
	Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 153-155, fig. 18 [distribution]

brevicalycina Steph. 1894 818

Subgenus: Trachycolea

Typus: West Indies. St. Christopher Isl (= St. Kitts) sd, Breutel sn in hb G G00069182 - n° SIB 125612/1 (ex hb JACK 65, Icones 4)

Basionym:

Distribution: St. Kitts (= St. Christopher)

spec nov	Stephani	1894	228	Hedwigia 33: 141
	Stephani	1910	686	Spec Hepat 4: 385-386
	Bonner	1965	655	Index Hepat 5: 254
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 50, microfiche 50 fig 3405 [from type; "S Kitts, Breutel leg, Herb Jack No 65"]
	Yuzawa & Hattori	1988	139	J Jap Bot 63 (11): 361-364 [close to Fr. longistyla]

brittoniae A.Evans 1897 819

Subgenus: Trachycolea

Typus:

Basionym:

Distribution: Canada, USA (CO NM ME NH VT MA RI CT NY PA MD WV VA NC TN SC GA FL OH IN IL KY MI WI MN KS MO AR TX)

spec nov	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 15-16, pl 7(1-12)
	Barbour	1902	2233	Bryologist 5(1): 5 [USA]
	Stephani	1910	686	Spec Hepat 4: 435
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 773-774, fig Fr.b.(1-8)
	Schuster	1953	604	Amer Midl Nat 49 (2): 571, pl 72(9-10)
	McGregor	1955	2240	Univ Kansas Sci, Bull 37(3): 78 [USA, Kansas - common]
	Bonner	1965	655	Index Hepat 5: 254
	Kamimura	1971	3708	Bull Kochi Gakuen J Coll 2: 28-29, fig 2(j-r) [USA, Texas]
	Hattori	1981	491	J Hatt Bot Lab 49: 165 [as syn sub Fr. muscicola ssp brittoniae]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 81ab, microfiche 51 fig 3449-3450 ["Am septentrionalis, Evans p 15, Tab 7"]
	Hong	1989	689	Bryologist 92 (3): 366-367 [key to N-American species]
	Crum	1991	1018	Liverw Hornw Southern Michigan: 99, fig 94a [USA, Michigan]
	Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 140-142, fig 80(1-6), map 101 [USA: North Carolina]
	Schuster	1992	603	Hepat N America 5: 157-167 , fig 776(6), 797, 798(1-9) [a valid species]
	Timme & Redfearn	1997	748	Evansia 14(3): 95
	Timme & Redfearn	1997	1134	http://biology.smsu.edu/herbarium/liverw_t.htm [printed 20.6.2004 page 9 of 19; USA]
	Timme & Redfearn	1997	631	http://science.smsu.edu/~csre/herbarium/liverw_t.htm [4.6.97] printed 15.1.98 12:34 page 2 of 6 [USA]
	Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (CT MA ME NH RI VT)]
	Smith & Davison	2001	1256	Final rep bryophyte invent Yellow Face Land tract: 19 of 30 [USA (NC)]
	Lyman	2003	1268	Checklist of Wisconsin bryophytes [USA]
	Weber & Wittmann	2003	1017	http://spot.colorado.edu/~weberw/hepatics2003.pdf, p. 26 [USA, Colorado]
	Cleavitt	2004	1167	Evansia 21 (2): 53 [USA, New Hampshire]
	Davison & Keller	2004	1168	Evansia 21 (2): 84 [USA, Great Smoky Mts NP]
	Lincoln	2008	1712	Memoir New York Bot Gard 99: 122 [New England States, USA]

brotheri Steph. 1894 1

Subgenus: Homotropantha Nodulosae

Typus: Malaysia, Malaya Pen. "Malacca, Summit of Gunong Batu Pateh, on trees, 6000 ft." sd, L. Wray jun., 901

in hb G G00069184 - n° SIB 125400/1 - G17188 (hb BROTHERUS, hb Stephani 213)

Basionym:

Distribution: Korea (South), Japan, Sri Lanka, Andaman Isl [India], Thailand, Singapore, Malaysia (Perlis, Perak, Selangor, Pahang, Malacca, Johor, Sabah), Indonesia (Sumatra, Java), Borneo, New Guinea, Philippines, Fiji

spec nov	Stephani	1894	228	Hedwigia 33: 150
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 322
	Stephani	1911	686	Spec Hepat 4: 584
	Verdoorn	1928	244	Ann Crypt exot 1 (2): 220 [= Fr. nodulosa]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 177 [= Fr. nodulosa]
	Kamimura	1961	199	J Hatt Bot Lab 24: 57 [syn sub Fr nodulosa]
	Bonner	1965	655	Index Hepat 5: 255
	Kitagawa	1970	6358	note in hb G: "Verdoorn (1930) reduced this species to a synonym of Fr. nodulosa. But they are not conspecific. .."
	Kitagawa	1974	3473	Proc Bryol Soc Japan 1 (7): 75-76 [in Japanese: nodulosa =/= brotheri]
	Hattori	1975	547	J Hatt Bot Lab 39: 280-281
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 111
	Hattori	1976	80	J Hatt Bot Lab 40: 473-474, fig 181, 200(a-d) [Borneo]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 446 [Thailand]
	Hattori	1980	490	J Hatt Bot Lab 47: 222-225, fig 36
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 732-733 [South Korea]
	Hattori	1982	495	J Hatt Bot Lab 51: 240, 262 [not at New Guinea]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 123
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-17, microfiche 54 fig 3728 ["Malacca, in cacumine, Montis Gunong Batu Petah, in cotice, 6000f, L Wray junor 901"] - 3729
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 335 [info zu syn.]
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korea]
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 2-4, fig 1(a-k) [Japan, keys to species; in Japanese]
	Piippo, He, Juslen, Tan, Murphy & Pocs	2002	1002	Ann Bot Fennici 39: 114 [Singapore]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Söderström et al	2010	2314	Phytotaxa 9: 72[brotheri is probably just a high-elevation form of Fr nodulosa]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 73-74, fig 34(a-f) [checklist & revision of genus Fullania, Thailand]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

brunea (Spreng.) Drège 1843 [non Austin 1846] 822

Subgenus: Caulisequa

Typus:

Lectotype: “Le Cap, Montagne de la Table, Ecklon (holotype de Jungermannia brunnea PR, herb. VÁŇA)”
Isolectotypes: BREM no. 0002228, FR no. 0242568 (duplicate of BREM-0002228)

Basionym: Jungermannia brunea Spreng. 1827

Distribution: Malawi, South Africa

comb nov	Drège	1843	255	Flora 26 (besond. Beilage): 79 & 186
	Sprengel in G., L. & N.	1845	2850	Syn Hepat: 441-442
	Lehnert	1886	2089	Proceed Biol Soc Washington 3: 117 [Washington and vicinity]
	Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 64 [Kilimandscharo, Njassaland, Südwestliches Kapland]
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134 [brunnea = caroliniana]
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134
	Stephani	1911	686	Spec Hepat 4: 621-622
	Sim	1926	252	Trans Roy Soc S Africa 15: 46-47, figs [South Africa]
	Arnell	1963	822	Hepat S Africa: 135-136, fig 100(f-h)
	Bonner	1965	655	Index Hepat 5: 255
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 335 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 22-24, fig 4(A-K) [as Brunnea] Le Cap, Montagne de la Table, Ecklon (Lectotype]]ungermannia brunnea PR, herb. Vâna),
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B- 1, microfiche 48 fig 3226 ["Cap Mac Owen"]
	O'Shea	1993	985	J Bryol 17: 648 [Malawi]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 83 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Malawi, South Africa] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Malawi, South Africa] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Winter & Schäfer-Verwimp 2020	2020	5742	Frahmia 19: 14-15, fig 20-21 [Isolectotypes, sgen Caulisequa, key]

buchtienii Herzog 1942 824

Subgenus: Frullania

Typus: Bolivia. Unduavi sd, Buchtien 923

Basionym:

Distribution: Bolivia

spec nov	Herzog	1942	874	Beih Bot Centralbl 61 B: 573-575, fig 9(a-h) [Bolivia]
	Bonner	1965	655	Index Hepat 5: 255

bullata Steph. 1910 825

Subgenus: Trachycolea

Typus: Madagascar sd, Forsyth Major 580pp

in hb G G00045240 - n° SIB 148719/1 - G12971 (c per) [holotypus]
in hb G G00067921 - n° SIB 140990/4 - G12972 (Madagascar, Betsileo, Rev. Montant 1893, ex hb RENAULD 373)

Basionym:

Distribution: Mozambique, Tanzania, Madagascar, Mauritius

spec nov	Stephani	1910	686	Spec Hepat 4: 371
	Demarend	1947	0	note in hb G: "12972 = Frullania squarrosa"
	Bonner	1965	655	Index Hepat 5: 225-256
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 46: 186-190, fig 45, 46
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 368 [map of Africa]
	Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 228 [East Africa; Tanzania]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 212 [key to Madagascar] & 223-224
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 8, microfiche 50 fig 3359 [from type; "Madagascar, leg Forsyth Major 1896"]
	Grolle	1995	250	Bryophyt Bibl 48: 64 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 84 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Mauritius, Madagascar, Mozambique, Tanzania] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Mauritius, Madagascar, Mozambique, Tanzania] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

caduca S.Hatt. 1980 828

Subgenus: Trachycolea

Typus: Taiwan. Urai Prov., Taipei, 500m 18.03.1966, H. Inoue 13924

in hb NICH [holotypus]
in hb TNS [isotypus]

Basionym:

Distribution: Japan, Taiwan

spec nov	Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 33-34, fig 1(a-g)
	Hattori	1982	133	J Jap Bot 57 (11): 328-331, fig 1 [? conspecific with fr. anamiensis, close to Fr. pedicellata]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 132
	Kuo & Chiang	1988	948	Taiwania 33: 11 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 2 [Japan, syn nov sub Fr amamiensis]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 21: Holotype. Taiwan, Prov. Taipei, Urai. 500 m. 18 Mar. 1966. H. Inoue 13924 (NICH 425458).
	Schäfer-Verwimp & Winter	2017	4850	Bryostring 5: 25-30 [Taiwan]
	Schäfer-Verwimp & Winter	2019	5502	Bryostring 6: 4.5 [is a valid species]

caespitans Beauverd 1924 829

Subgenus: Incertae sedis

Basionym: Frullania campanulata [auct. non Sande Lac.] Steph. ex Herzog 1916 {Bolivia}

Distribution: Bolivia

nom nov	Beauverd in Stephani	1924	687	Spec Hepat 6: 537
	Bonner	1965	655	Index Hepat 5: 256

caffraria fo. anomala Vanden Berghen 1976 836

Subgenus: Trachycolea

Typus: Zaire. Kivu, Kabongo, (4h NE Rutshuru) 4.11.1914, Bequaert 6193

in hb BR BR5040100929493 [holotypus]

Basionym:

Distribution: Democratic Republic of Congo

fo nov	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 183
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 84 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

caffraria Steph. 1894 832

Subgenus: Trachycolea

Typus: South Africa. Van Reenen Pass sd, A. Rehmann 169

in hb G G00045242 - n° SIB 148721/1 [holotypus]

Basionym:

Distribution: Angola, Bioko, Cameroon, Democratic Republic of Congo, Socotra, Djibouti, Eritrea, Ethiopia, Kenya, Malawi, Nigeria, Rwanda, Tanzania, Uganda, Zambia, Zimbabwe, Madagascar, Mauritius, Reunion, South Africa, Yemen Rep, Saudi Arabia

spec nov	Stephani	1894	228	Hedwigia 33: 141-142 [Fr. hoehnelianae similis]
	Stephani	1910	686	Spec Hepat 4: 382
	Sim	1926	252	Trans Roy Soc S Africa 15: 39-40, figs [South Africa] [syn sub Chonanthelia]
	Vanden Berghen	1953	446	Svensk Bot Tidskr 47 (2): 269-273, fig 2(a-i) (Kenya)
	Arnell	1956	836	Ark Botanik 3 (16): 531 [East African mountains]
	Vanden Berghen	1961	1507	Bull Soc Roy Bot Belg 93 (1-2): 69 [Katanga]
	Arnell	1963	822	Hepat S Africa: 148, fig 108(a-c)
	Bonner	1965	655	Index Hepat 5: 256-257
	Vanden Berghen	1972	249	Expl Hydrobiol Bassin Bangweolo et Luapula 8 (1): 80-82, fig 31(a-l) [Zaire, Zambia]
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 367 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 178-186, fig 43 & 44
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 213 [key to Madagascar]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 10, microfiche 50 fig 3361 [from type; "Afr australis, Van Renen pass, A Rehmann 169" & "Trachycolea ?"]
	Long	1987	1052	Nova Hedwigia 45 (1-2): 190, map 8 [Yemen] [afromontan taxon]
	Frey & Kürschner	1988	1119	Nova Hedwigia 46 (1-2): 77 [Arabian Peninsula & Socotra]
	Kürschner	1989	1051	Nova Hedwigia 48 (1-2): 77 [Saudi Arabia]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Frey & Kürschner	1991	1033	Bryophyt Bibl 39: 30 [Saudi Arabia, Yemen Rep]
	O'Shea	1993	985	J Bryol 17: 648 [Malawi]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire, Rwanda]
	Chuah-Petiot	1995	31	Trop Bryol 10: 51 [Kenya: Mount Kenya]
	Grolle	1995	250	Bryophyt Bibl 48: 64 [afr3]
	Pérez & Sánchez	1996	297	Trop Bryol 12: 47 [Bioco]
	Kürschner	1996	270	Nova Hedwigia 62 (1-2): 238 [Yemen]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 84 [Catalogue ... of Sub-Saharan Africa]
	Chuah-Petiot	1996	296	Trop Bryol 12: 72 [Kenya]
	Chuah-Petiot	1997	646	Trop Bryol 13: 63 [Kenya, Aberdare Range]
	Dilg & Frahm	1997	645	Trop Bryol 13: 38 [South Africa, Drakensberge]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Porley, O'Shea, Wigginton, Matcham, Hodgetts & Stevenson	1999	711	Trop Bryol 16: 183 [Uganda]
	Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: Bioko]
	Kürschner	2000	737	Bryophyt Bibl 55: 39 [Saudi Arabia, Yemen], map 42
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
	Chuah-Petiot	2001	1074	Trop Bryol 20: 37 [Elgeyo Marakwet, Kenya]
	Bytebier & Chuah-Petiot	2002	1076	Trop Bryol 22: 62 [Taita Hills, Kenya]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Angola, Bioko, Cameroun, Djibuti, Eritrea, Ethiopia, Kenya, Mauritius, Madagascar, Malawi, Nigeria, Reunion, Rwanda, South Africa, Tanzania, Uganda, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Chuah-Petiot & Pocs	2003	1082	Acta Bot Hungarica 45 (1-2): 60 [Aberdare Mts., Kenya]
	Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 204, fig 263(a-g)[Kenya; key to species]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Angola, Bioko, Cameroun, Djibuti, Eritrea, Ethiopia, Kenya, Mauritius, Madagascar, Malawi, Nigeria, Reunion, Rwanda, South Africa, Tanzania, Uganda, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

	Wigginton	2004	1172	Sript Bot Belg 30: 229, fig 150(A-W) [West Africa]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
	Frahm	2010	2306	Mosses and Liverworts of the Mascarenes and Seychelles [Foto, p. 44]

calcarata Ångstr. 1873 837

Subgenus: Trachycolea

Typus: Society Isl. Tahiti. 1.11.1852, N.J. Andersson

in hb G G00113795 - n° SIB 157658/1 - G14230 notes > see fr0837.jpg
in hb S (B22650 - B22651) [typus]

Basionym:

Distribution: ? India (Western Ghats), Papua New Guinea, Bismarck Arch (New Britain [=Neupommern]), Solomon Isl (Shortland), Society Isl (Tahiti, ?Moorea)

spec nov	Ångström	1873	578	Öfversigt K Vetensk Akad Förh 30 (5): 137-138 [Tahiti]
	NN	1875	1495	Hedwigia 14: 90 [Tahiti]
	Bescherelle	1898	871	J Bot Morot 12: 137 [Tahiti]
	Stephani	1910	217	Denkschr K Akad Wiss, Math Nat Kl, Wien 85: 197 [Neu-Pommern & Shortlandinsel]
	Stephani	1911	686	Spec Hepat 4: 460
	Verdoorn	1929	0	note in hb G: "Diese Pflanze gehört zum neuen Subgenus Saccophora, Verd. In Schiff. Hep Ind. Series III - Annal Bryol II (1929)" Jan 1929 > see fr0837.jpg
	Verdoorn	1930	293	Ann Bryol Suppl 1: 62-64, fig 94-95
	Verdoorn	1930	549	Nova Guinea 14 (4): 541 [New Guinea]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 165
	Verdoorn	1939	551	Nederl Kruidk Arch Jrg 1930 (2): 165
	Bonner	1965	655	Index Hepat 5: 357
	Hattori	1973	542	J Hatt Bot Lab 37: 128-130, fig 72
	Hattori	1982	495	J Hatt Bot Lab 51: 248
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-111, microfiche 51 fig 3496 ["Frullania calcarata Angstr, olim Frull panchetiana, Tahiti, Vieillard ... Panchat 1865"]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 44
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S] types by Hatt Bot Lab 1977
	Nair et al.	2005	3031	Bryophytes of Wayanad in Western Ghats: 63, fig 9(a-f) [India, Western Ghats]

calcarifera Steph. 1888 1973

Subgenus: Frullania

Typus: Portugal. Coimba, Bussaco near Coimbra / Calcada, do Gato, do Rangel -.3.1886, Moller 202 & -.1.1885 Moller

in hb US [typus]

Basionym:

Distribution: Portugal, Spain, Italy, Algeria

	Stephani	1886	3975	[Lettre], 1886 fév. 25, Leipzig, [à Júlio Henriques, Coimbra] [manuscrito] - Anexa diagnose da Frullania calcarifera. - Texto em francês e latim.
spec nov	Stephani	1888	1115	Hedwigia 26 (1): 1-2 [spec nov]
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134
	Luisier	1910	788	Broteria, ser Bot 9 (1): 65
	Stephani	1911	686	Spec Hepat 4: 561-562
-	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 610, 612 [syn sub Fr. tamarisci var sardoa]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1234 [syn sub Fr tamarisci var sardoa]
	Bonner	1965	655	Index Hepat 5: 257
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-187ab, microfiche 60 fig 4139 ["Ucatta do Rangel pr Coimbra, leg Moller 1/86"] - 4140 ["leg Moller, Coimbra"] - 4141
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 06 of 35 [in hb US]

caldensis Ångstr. 1876 839

Subgenus: Frullania

Typus: Brazil. Minas Gerais, Caldas sd, S. Henschen sn
in hb S (B22676-B22677) [typus]

Basionym:

Distribution: Brazil

	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 89 [Brazil]
	Stephani	1911	686	Spec Hepat 4: 549
	Bonner	1965	655	Index Hepat 5: 257
	Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-133/134, microfiche 59 fig "4086" 4066 [without fig - "Tahiti, Diagn in Vet Akad. 1876 s 89 (coprint)"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 37d/38, microfiche 57 fig 3927 [without fig - "Brasilia, Caldas; wahrscheinlich Frull Beyrichiana"]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]

californica (M.Howe) A.Evans 1897 720

Subgenus: Frullania

Basionym: Frullania grayana var. californica pp B Austin ex Underwood 1844

Distribution: Canada (BC), USA (CA OR ME WA), Guadeloupe

stat nov	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 25-26, pl 12(11-22)
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 47 [Canada]
	Stephani	1911	686	Spec Hepat 4: 570
	Sanborn	1929	3503	Univ Oregon Publ Pl Biol 1(1): 89-90, pl 4(10-11) [Oregon]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 745-746, fig Frc(1-10)
	Clark	1953	1106	Proc California Acad Sci 4 ser, 27 (18): 662 [Guadalupe Isl]
	Bonner	1965	655	Index Hepat 5: 258
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-188, microfiche 60 fig 4142 ["Evans, Am septr"]
	Hong	1989	689	Bryologist 92 (3): 364 [key to N-American species]
	Schofield	1994	263	Hikobia 11: 413 [Canada, BC]
	Jonsson	1996	654	Bryologist 99 (2): 233 [Oregon, USA]
	Rambo & Muir	1998	731	Bryologist 101: 120 [USA: Oregon]
	Qian & Klinka	1998	2262	Plants of British Columbia: 339 [Canada]
	Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (ME)]

campanulata var. malesiaca (Verd.) S.Hatt. 1975 851

Subgenus: Trachycolea Australes

Basionym: Frullania malesiaca Verd. 1930

Distribution: Indonesia (Sumatra, Java)

comb nov	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 157-158 [modification under alpine conditions]

campanulata Sande Lac. 1853 847

Subgenus: Trachycolea Australes

Typus: Indonesia. Java sd, Junghuhn, F.W. sn
in hb van den BOSCH
in hb L L0060921 - 910288309 [typus]

Basionym:

Distribution: India (South: Tamil Nadu), Vietnam, Sri Lanka, Thailand, Indonesia (Sumatra, Java)

Sande Lacoste	1855	2038	Nederl Kruidk Arch 3: 422
Sande Lacoste in Dozy	1856	564	Plagiochila sandei Dozy: 11
Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 537-538
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 82, pl 16(1-10)
Sande Lacoste	1894	1894	Natuurk tijdschr v Nederl Indie: 397
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 322
Stephani	1910	686	Spec Hepat 4: 442 [as Trachycolea]
Verdoorn	1929	245	Ann Bryol 2: 123-125 [Java]
Verdoorn	1929	246	Ann Bryol 2: 160 & 163 [Java, Sumatra]
Verdoorn	1929	548	Ann Jard Bot Buitenzorg 40: 143
Verdoorn	1930	293	Ann Bryol Suppl 1: 40-41, fig 46-50
Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 30; Java] & 136, fig 4 (sw-photo)
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 54 [Sumatra, Java]
Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 486 [Java]
Chopra	1938	933	Proceed Indian Acad Sci, sect B, 7 (5): 248 [South India, Kotagiri - determinated by Verdoorn]
Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
Meijer	1953	5795	Buxbaumia 7: <22-28> [Indonesia]-
Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: SI]
Bonner	1965	655	Index Hepat 5: 258
Pócs	1965	4282	Acta Academiae Paedagogicae Agriensis ns 3: 483 [Vietnam]
Hattori	1972	539	J Hatt Bot Lab 36: 433
Hattori	1974	545	J Hatt Bot Lab 38: 198-201, fig 94(a-j) [key to campanulata & allied species]
Hattori	1975	547	J Hatt Bot Lab 39: 281
Onraedt	1981	5794	J Hatt Bot Lab 50: 201 [Sri Lanka]
Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-113, microfiche 51 fig 3500 ["Java"]
Schuster	1985	441	Phytologia 57 (5): 371 [sect Campanulatae (of sgen Trachycolea) - type species for nov sect]
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [South India]
Nath & Asthana	1998	708	J Hatt Bot Lab 85: 77-78, fig 7(16-29) [South India; key to all spec.]
Nath & Asthana	1998	683	J Bryol 20(1): 233 [South India]
Bapna & Kachroo	2000	712	Hepaticology in India II: 167
Srivastava & Alam	2002	1251	J Bombay Nat Hist Soc 99(2): 237 [Nilgiri, key to South Indian species]
Daniels	2006	2903	Internet [India (Tamil Nadu)]
Sukkharak	2007	3380	Thesis: 30, fig 4.9(a-p) [Thailand, key]
Verma & Srivastava	2008	2557	Proc Nat Acad Sci India, Sect B 78 B(3): 259 [India (Tamil Nadu, Nilgiri)]
Alam & Srivastava	2009	3277	Nelumbo 51: 110, pl.3 fig3(photo) [India (Tamil Nadu)]
Söderström, Gradstein, Hagborg	2010	2314	Phytotaxa 9: 72 [Java, checklist]
Daniels	2010	2142	Archive for Bryology 65: 15 [India (Tamil Nadu), checkist]
Manju	2011	3443	Samagra 7: 34 [India (Western Ghats), checklist]
Gradstein	2011	3250	Guide to the Liverworts and Hornworts of Java [Java]
Dandotiya et al	2011	2607	Archive for Bryology 88: 100 [India, checklist]
Putrika	2012	3566	Thesis: 45 [Indonesia]
Alam	2012	3205	Archive for Bryology 119: 14 [distribution in India]
Daniels & Daniel	2013	4023	The bryoflora of the southernmost Western Ghats, India: 168, fig 78(a-g), pl 24c. 25d [India (Western Ghats)]
Verma, Alam & Rawat	2013	4057	Polish Botanical Journal 58(2): 532 [India (Tamil Nadu)]
Nair	2013	4128	Proceedings of the UGC National Seminar - Western Ghats: 57 [India (Western Ghats)]
Schwarz	2013	4071	Archive for Bryology 181: 9 [India (Karnataka), checklist]
Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka, checklist]
Sahu & Asthana	2014	3923	The Indian Forester 140(4): 391 [India (Uttarakhand, Western Himalaya)]

Srivastava	2016	5234	Thesis: 109-112, pl. 17(1-17) [India (Tamil Nadu, Palni Hills), key and figures]
Singh et al	2016	4561	Liverworts and hornworts of India. An annotated checklist: 84 [checklist]
Singh & Kumar	2016	4558	Nelumbo 58: 137 [India, Tripura)]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Shu et al	2017	4733	Cryptogamie, Bryologie 38(4): 434 [Vietnam, checklist]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 59, fig 26(a-h) [checklist & revision of genus Fullania, Thailand]
Wijaya et al	2019	5236	Symposium paper: 3, fig. 2a [Oil bodies variation in ephypitic leafy liverworts, Indonesia]
Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 396-398, fig 143 (a-o) [India (Western Ghats, keys]

campanulata var. caduca Verd. 1930 850

Subgenus: Trachycolea Australes

Typus: Indonesia. Java, Gg. Mandalawangi, 1600m 1929, Doctors van Leeuwen

Basionym:

Distribution: Indonesia (Java)

Verdoorn	1930	293	Ann Bryol Suppl 1: 41
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 54 [Java]
Bonner	1965	655	Index Hepat 5: 259

canaliculata Gottsche 1910 853

Subgenus: Incertae sedis

Typus: Argentinia. Tucaman sd, Lorentz 910

in hb G G00113746 - n° SIB 157642/1 - G21608

Basionym:

Distribution: Argentina

spec nov	Gottsche ex Stephani	1910	686	Spec Hepat 4: 391
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 166 [Tucuman]
	Kühnemann	1949	657	Lilloa 19: 354 [Argentina: Tucuman]
	Bonner	1965	655	Index Hepat 5: 258
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 52, microfiche 50 fig 3407 [from type; "Argentinia Tucuman, Lg Lorentz, Herb Gottsche"]

capensis Gottsche 1845 854

Subgenus: Meteoriopsis Obtusilobae

Typus: South Africa. Cape of God Hope, Table Mountain sd, Ecklon

in hb S-PA [holotypus]
in hb S (B24169-24170) [original material]
in hb GLM (hb LEHMANN) 05978

Basionym:

Distribution: Malawi, Mozambique, Tanzania, Zimbabwe, Madagascar, Mauritius, Reunion, South Africa

spec nov	Gottsche in G., L. & N	1845	2850	Syn Hepat: 449
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Madagascar]
	Stephani	1895	212	Bot Jahrb 20 (3): 315 [Usambara]
	Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 65 [Usambara 900-100m, Südwestl. Kapland]
	Stephani	1911	686	Spec Hepat 4: 482-483
	Sim	1926	252	Trans Roy Soc S Africa 15: 46, figs [South Africa]
	Demaret & Vanden Berghen	1946	1102	Bull Jard Bot Etat Bruxelles 18: 117-122, fig 5(a-d) & 6(a-e)
	Arnell	1955	1690	Bot Not 108: 309 [is different from Fr rehmannii]
	Arnell	1963	822	Hepat S Africa: 156-158, fig 115(a-e)
	Bonner	1965	655	Index Hepat 5: 259
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 341 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 42- 47, fig 10(A-P), 11(A-O)
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 210 [key to Madagascar] & 217
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 17, microfiche 56 fig 3894 ["Caput bon spei, Breutel, Original"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Reunion Isl]
	Grolle	1995	250	Bryophyt Bibl 48: 64 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 84-85[Catalogue ... of Sub-Saharan Africa]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [new to Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
	Wigginton	2001	1079	Trop Bryol 20: 94 [foliicolous taxa of Malawi]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Mauritius, Madagascar, Malawi, Mozambique, Reunion, South Africa, Tanzania, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [not in Brazil]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Mauritius, Madagascar, Malawi, Mozambique, Reunion, South Africa, Tanzania, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]

capillaris Steph. 1911 857

Subgenus: Incertae sedis

Typus: New Caledonia. Table Unio -.9.1909, Le Rat 415

in hb G G00069149 - n° SIB 124254/1 - G18445 (419)

Basionym:

Distribution: New Caledonia, Fiji

spec nov	Stephani	1911	686	Spec Hepat 4: 616
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 172, fig 2 [New Caledonia]
	Bonner	1965	655	Index Hepat 5: 260
	Hattori	1977	479	J Hatt Bot Lab 43: 414-416, fig 4 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 123
	Hattori	1984	503	J Hatt Bot Lab 57: 409
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 13 [Fiji]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-49, microfiche 56 fig 3842 ["Nova Caledonia, lg Lerat, Herb Gén Paris 415"] - 3843
	Hattori	1986	506	J Hatt Bot Lab 60: 222 [New Caledonia]
	Uribe	2008	1513	Caldasia 30(1): 91, [type was not available] [Monography of subgenus Meteoriopsis]
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Frullania] [Monography of subgenus Meteoriopsis]

carrii Kamim. & S.Hatt. 1973 862

Subgenus: Trachycolea

Typus: Papua New Guinea. Owen Stanley Range, above Port Moresby, Isuarva, 1500m 1936, C.E. Carr 15390 (Hattori as 15930) (ex hb CANB)

in hb JE [holotypus]
in hb NICH, TNS [isotypus]
in hb EGR [isotypus] (Hattori as "15930")

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

spec nov	Hattori & Kamimura	1973	543	J Hatt Bot Lab 37: 520-524, fig 2-4 [close to Fr. appendistipula]
	Hattori	1974	546	J Hatt Bot Lab 38: 231, fig 112
	Hattori	1975	547	J Hatt Bot Lab 39: 281
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 12
	Hattori	1988	516	J Hatt Bot Lab 65: 418 [PNG: Mt. Alb. Edward endemic]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 44
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Kis	2004	1377	F Hist Nat Mus Matraensis 28: 15 [isotype in EGR]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 20: Isotype. New Guinea, Isuarava. Owen Stanley Range above Port Moresby. 4500 ft. 5 Feb. 1936. C. E. Carr 15390 (NICH 401468). Another isotype speeimen: NICH 425744.

casparyi Grolle 1985 2210

Subgenus: Frullania

Typus: Fossil. Inclusion in Amber, Eocene

Basionym:

Distribution: Fossil (Eocene) in Baltic & Bitterfeld amber, Germany

	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 140
spec nov	Grolle	1985	621	Prace Muz Ziemi z 37: 92-93 fig 2 (e-i), pl 3
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 20-21, pl.6(a-e)
	Feldberg et al	2021	5972	Bry Div Evo 43(1): 37, fig 6G

catalinae A.Evans 1897 1195

Subgenus: Frullaniopsis

Typus: USA. California, Santa Catalina Isl sd, Mc Chatchie

Basionym:

Distribution: USA (CA)

spec nov	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 11-12, pl 4
	Stephani	1910	686	Spec Hepat 4: 435
syn nov	Clark & Svihla	1944	312	Bryologist 47: 196-199 [syn sub Fr. inflata]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 764 [sub Fr inflata]
	Bonner	1965	655	Index Hepat 5: 261
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 82, microfiche 51 fig 3451 [Am sept, California, Evans p 11, tab IV"]
	Hong	1989	689	Bryologist 92 (3): 365 [key to N-American species]
	NN	2002	1266	http://www.natureserve.org/explorer [USA: CA]
	NN	2002	1266	http://www.natureserve.org/explorer [USA]
	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 201-242 [belong to subg. Frullaniopsis subgen. nov.]

cataractarum Steph. 1911 864

Subgenus: Trachycolea Australes

Typus: Australia. New South Wales, Maclay River, [in cataractis] 1884, A.R. Crawford

in hb G G00069152 - n° SIB 124261/1 (hb STEPHANI 18199 , hb Melbourne mis 1884, ex hb C. MÜLLER; STEPHANI.HEP 1898) [typus]

Basionym:

Distribution: Australia (NSW, VIC, QLD)

spec nov	Stephani	1911	686	Spec Hepat 4: 657
	Bonner	1965	655	Index Hepat 5: 261
	Hattori	1979	486	J Hatt Bot Lab 46: 126-128, fig 32(a-n) from type
	Hattori	1983	499	J Hatt Bot Lab 54: 137
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 180 [NSW, VIC]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-89, microfiche 49 fig 3337 [from type; "Australia NS Walws, Maclay River leg Crawford 1884, ex Herb Melbourne, missit 1884 Ferd v Müller"]
	Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Australia: NSW, VIC]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1988	429	Nova Hedwigia Beih 90: 148 [Australia: NSW]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia (NSW, VIC, QLD)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW VIC]

caulisequa (Nees) Mont. 1839 775

Subgenus: Caulisequa

Typus: Brasil: "Ad Schlotheimiam rugifoliam frustulum inveni"

Basionym: Jungermannia caulisequa Nees in Martius 1833

Distribution: [?? USA (FL GA AL MS LA SC NC VA), Belize, Honduras, Costa Rica, Cocos Isl (Costa Rica), Panama, Cuba, Dominica, Jamaica, Hispaniola, Martinique, Guadeloupe, Dominican Rep, Colombia, Venezuela, Ecuador, Galapagos Isls (Ecuador), Peru, Guyana, Surinam, French Guiana ??], Brazil, [??Argentina ??]

comb nov	Montagne	1839	465	Ann Sci Nat Bot, ser 2, 12: 51 [Brasil: "Ad Schlotheimiam rugifoliam frustulum inveni"]
	Montagne	1841	468	Ann Sci Nat Bot, ser 2, 16: 128 [Brasil]
	Nees in G., L. & N.	1845	2850	Syn Hepat: 448
	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 89 [Brazil]
	Spruce	1895	238	J Linn Soc Bot 30: 334 [St. Vicent, Wallilaboo Valley (177). Dominica, Morne Anglais (492). On bark, coll. in 1891-91 by G.F. Scott Elliot, det Spruce]
	Stephani	1911	686	Spec Hepat 4: 638
	Clark	1955	372	Bryologist 58: 201-203, fig 1-16
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 87 [Brazil]
	Bonner	1965	655	Index Hepat 5: 262
	Fulford	1967	1196	Acta Bot Venezuelica 2(5-8): 94 [Argentina, Auyan-tepui; as Fr leptophylla]
	Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-28, microfiche 48 fig 3260-3261 ["syn: Frull compsotera Spruce Campana leg Spruce"]
	Fulford	1987	99	Mem NY Bot Gard 45: 272 [Dominica]
	Yuzawa	1988	511	J Hatt Bot Lab 64: 442-444, fig 4(from type of Fr. galapagona) (syn sub Fr. caulisequa]
	Yuzawa	1988	511	J Hatt Bot Lab 64: 444-445, fig 5(from type of Fr. obcordata) (syn sub Fr. caulisequa]
	Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]
	Gradstein & Florschütz-de	1989	1237	Trop Bryol 1: 40-42 [Venezuela, Mt Roraima]
	Yuzawa & Koike	1989	519	J Hatt Bot Lab 66: 349-359
	Pôrto	1990	77	Crypt Bryol Lichen 11 (2): 122 [Brasil]
	Cornelissen & Gradstein	1990	729	Trop Bryol 3 (2): 33 [Guyana]
	Schäfer-Verwimp	1991	523	J Hatt Bot Lab 69: 153 [Brazil]
	Morales Z.	1991	307	Trop Bryol 4: 37 [Costa Rica]
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Schuster	1992	603	Hepat N America 5: 111-118 [follows Yuzawa as Fr. caulisequa]
	Schuster	1992	603	Hepat N America 5: 111-118, fig 789(9-10), 791 [= Fr obcordata]
	Wolf	1993	2380	Phytocoenologia 22(1): 22, 35-38, 64 [Colombia, Epiphyte - Lower montane rain forest communities]
	Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
	Visnadi & Vital	1995	32	Trop Bryol 10: 70 [Brazil: Setiba State Park]
	Whittemore & Allen	1996	653	Bryologist 99 (1): 65 [Belize]
	Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana, Surinam, French Guiana]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
	Costa & Yano	1998	757	Hoehnea 25 (2): 101 [Brasil]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Yano & de Mello	1999	919	Iheringia, ser Bot 52: 72-73 [Brasil]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Dauphin	1999	1087	Rev Biol Trop 47 (3): 323 [Cocos Isl, Costa Rica]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 25, fig 12(a-g) [Rio de Janeiro, Brazil]
	Molinario & Costa	2001	1086	Rodriguesia 52 (81): 113 [Brazil, Bot Gard in Rio de Janeiro]
	Visnadi & Vital	2001	1120	Acta bot bras 15 (2): 260 [Brazil]
	Holz, Gradstein & Heinrichs	2002	1404	Bryologist 105(3): 336-337 [Costa Rica]
	Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 81 & 93 [Brazil]
	Costa & Silva	2003	1440	Bol Mus Biol Mello Leitao (N ser) 16: 25 [Reserva Natural da Vale do Rio Doce, Espirito Santo, Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86, fig 25(i-k) [key to Brazilian specimens]
	Holz	2003	1185	Diversity Ecology Montane Quercus Forest, Costa Rica [Dissertation]: 46, 76, 114, 150 [upper montane oak forest, in mats]

Pinzon, Linares & Uribe-M	2003	1135	Caldasia 25(2): 300 [Colombia]
Visnadi	2004	1158	Acta bot bras 18(1): 93 [Sao Paulo, Brazil]
Porto, Germano & Borges	2004	1446	Brejos de Altitude em Pernambuco e Paraiba: 83 [Brazil]
Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 411, 414, 416 [Podocarpus NP, Ecuador, epiphytic]
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Martinez	2005	2307	Cuba: Parque Nacional Alejandro de Humboldt", p. 221
Camara, Oliveira & Santiago	2005	1359	Trop Bryology 26: 137 [Brazil; Distrito Federal Brasilia]
Germana & Porto	2005	1357	Trop Bryology 26: 3, 7 [Brazil; Pernambuco]
Holz & Gradstein	2005	1408	J Biogeogr 32: 1595 [Costa Rica: Cordillera de Talamanca]
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 92, 94 [Frullania kunzei community - differential species; Ecuador; Podocarpus NP]
Valente & Porto	2006	1487	Acta bot bras 20(2): 435 [Brazil]
Camara & Costa	2006	1131	Hoehnea 33(1): 82 [Reserva Ecologica do IGBE, Brazil]
Gradstein	2006	1401	Crypt Bryol 27(1): 147, 150 [French Guiana: lowland cloud forest]
Germano & Porto	2006	1402	Crypt Bryol 27(1): 158 [Brazil]
Campelo & Porto	2007	1486	Acta bot bras 21(1): 187 [Brazil]
Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149 [Galapagos Isl, Widespread in the archipelago, forming small, appressed mats on bark and rotten wood in moist evergreen woodlands and scrub, occasionally in semi-deciduous forest, 250-1100 m.]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 383-384 [Dominican Republic, new to Hispaniola]
Gradstein & Ilkiu-Borges	2009	1920	Mem New York Bot Gard 76(4): 45, fig 24(g,i) [French Guiana]
Howarth	2011	5110	Thesis: 253 [Peru, epiphytic cloud forest] -may be obcordata
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe] "as Fr gymnotis - Clark & Svihla 1948"
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 251 [Martinique] "as Fr parasitica - Arnell 1959"
Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
Schäfer-Verwimp, Peralta & Costa Siqueira	2012	3323	Phytotaxa 57: 27-30 [Key to the species of Frullania subg. Diastaloba from Brazil]
Schäfer-Verwimp	2014	3997	Phytotaxa 172(3):213 [checlist Panama]
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
Lima	2019	5121	Frullania no Brasil [Thesis]: 89-94. fig. 8 [distribution]
Winter & Schäfer-Verwimp	2020	5742	Frahmia 19: 1-21, fig 1-5 [Lectotypification, re-evaluation of the taxonomic status, different from Fr obcordata; key to sgen Caulisequa]]

cavallii Gola 1907 880

Subgenus: Incertae sedis

Typus: Uganda. Ruwenzori, Hima forest near Fort Portal, 1450m sd ?, Duke of Apruti Exped

Basionym:

Distribution: Uganda

spec nov	Gola	1907	785	Annali di Botanica 6: 275-276 [Uganda]
	Gola in Savoia	1909	832	Il Ruwenzori, parte scientifica 1: 528-529, pl 3 (12-14)
	Bonner	1965	655	Index Hepat 5: 262
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 13
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Uganda] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Uganda] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

changii S.Hatt. & C.Gao 1985 881

Subgenus: Diastaloba Diastaloba I

Typus: China. Guangx Prov, Mt. Migoershan, 2040m 5.9.1974, Gao Chien & Chang Kuang-chu 1723 in hb NICH

Basionym:

Distribution: China

	Hattori & Gao	1985	135	J Jap Bot 60 (1): 1-2, fig 1 [similar to Fr. hasskarliana]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 157 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 22: Holotype. China, Prov. Guangxi, Xing-An Pref., Mt. Miaoershan. 2040 m. 15 Sept. 1974. C. Gao and G. C.Zhang 1723 (NICH 431907).

chenii S.Hatt. & P.J.Lin 1985 882

Subgenus: Trachycolea

Typus: China. Shanxi Prov, Zhenling Mts, S slope, 2300m 25.7.1962, P.C.Chen 531 in hb NICH

Basionym:

Distribution: China (Shaanxi, Yunnan)

	Hattori & Lin	1985	136	J Jap Bot 60 (4): 106-107, fig 1
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 132 [China] [similar to Fr. incisoduthiana]
	Piippo	1990	521	J Hatt Bot Lab 68: 38 [annotated catalogue of China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 392 [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 115, fig. 50(1-8)
	Bai	2001	1742	Guizhou Science 19(4): 34 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 3 [Yunnan, China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 22: Holotype. China. Shanxi, Zhenling Mt. 2300 m. 25 July 1962. P. C.Chen 531 (NICH 431908).

chevalieri (R.M.Schust.) R.M.Schust. 1992 883

Subgenus: Microfrullania Microfrullania

Basionym: Neohattoria chevalieri R.M.Schust. 1970

Distribution: New Zealand (North Isl: Northland, Auckland), New Caledonia

	Schuster	1970	761	J Hatt Bot Lab 33: 289-291, fig 5(6-11) [as Neohattoria chevalieri]
	Hattori	1976	68	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (3): 81-83 [as Schusterella chevalieri]
	Hattori	1977	479	J Hatt Bot Lab 43: 437 [as Schusterella chevalieri] [New Caledonia]
	Hattori	1984	503	J Hatt Bot Lab 57: 423-424 [as Schusterella chevalieri]
	Hattori	1986	506	J Hatt Bot Lab 60: 233 [as Schusterella chevalieri]
comb nov	Schuster	1992	603	Hepat N America 5: 34
	Konrat & Braggins	1999	725	Trop Bryol 17: 104, 105 [New Zealand (North Isl); commonly epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 3 & 9 [initial branching appendages]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 1st of 6 pages [Key to Frullania of New Zealand;] [Auckland, Northland]
	Konrat, Braggins, Asakawa & Toyota	2006	1500	Bryologist 109(2): 141-156, fig 2, 3f-i, 4a [detailed description and reassessment of Schusterella]
	Larrain et all	2018	5012	Bry. Div. Evo. 40 (2): 104-112, [key to allied species, p.109]

chiapasana Steph. 1910 887

Subgenus: Incertae sedis

Typus: Mexico. Estado Chiapas prope San Cristobal 1907, G. Münch s.n.
in hb G G00069190 - n° SIB 125610/1 (hb LEVIER 5444) [typus]
Basionym:

Distribution: Mexico

spec nov	Stephani	1910	686	Spec Hepat 4: 392
	Bonner	1965	655	Index Hepat 5: 263
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 53, microfiche 50 fig 3408 [from type; "Mexico. Estado Chiapas prope San Cristobal, ... 1907 G Münch, Levier No 5444"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41 [Mexico]

chilcootiensis Steph. 1887 888

Subgenus: Incertae sedis

Typus: Alaska. Chilcoot "Hab. Chilcoot. in cortice. • KRAUSE nr. 17." - Viele auf den Rasen von Rad. Krausei" 8.4.1882, A. Krause 17
in hb G G00048046 - n° SIB 138134/35 (Fondation STEPHANI 15003) [holotypus]
Basionym:

Distribution: Alaska

spec nov	Stephani	1887	207	Engler's Bot Jahrb 8: 98
	Pearson	1890	1153	List of Canadian Hepaticae: 4
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 34
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 46 [Alaska, Chilcoot]
	Stephani	1911	686	Spec Hepat 4: 566-567
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 770-771, fig Fr.c.(1-3)
	Bonner	1965	655	Index Hepat 5: 263 [as "chilcootensis", orth error]
	Godfrey & Godfrey	1980	310	J Hatt Bot Lab 48: 325-327
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-189, microfiche 60 fig 4143 [Alaska, Chilcoot, Dr Krause 8/4. 82"]
	Hong	1989	689	xxx : 367 [Frullania chilcootiensis Steph., Engler's Führer durch den Königlichen botanischen Garten der Universität zu Breslau. 1886. Grause's collection (Yu) contains only drawings]
	NN	2002	1266	http://www.natureserve.org/explorer [USA; Canada]
	NN	2002	1266	http://www.natureserve.org/explorer [USA]
	Atwwod & Mamontov	2020	5816	Botanica Pacifica 9(2):191-195, fig 1a-n [Fr hattorian as new syn]

chilensis Steph. 1894 889

Subgenus: Trachycolea

Typus: Chile. Valparaiso et Insula Chiloe ?, ? Lechler 1335 or ? Cunningham 249

in hb MONTAGNE (sub nomine Frull. microceras Mont ms)

Basionym:

Distribution: Juan Fernandez Isl [Chile], Chile, Argentina, Campbell Isl [New Zealand]

spec nov	Stephani	1894	228	Hedwigia 33: 142
	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 67 [Patagonia]
	Dusen	1903	3245	The vegetation of western Patagonia
	Stephani	1910	686	Spec Hepat 4: 429
	Reimers	1926	113	Hedwigia 66: 47-48 [Chile]
	Herzog	1938	723	Arch Esc Farm Fac Ci Med Cordoba 7: 28 [Chile: Valdivia, Cautin]
	Herzog in Skottsberg	1942	722	Nat Hist Juan Fernandez & Easter Island, 2: 738 [Juan Fernandez: Masafuera = Isla Alejandro Selkirk]
	Clark & Svihla	1952	346	Bryologist 55: 190-192, fig 13-27
	Herzog	1954	202	Rev Bryol Lichen 23: 56 [S-Chile]
	Thomasson	1963	3777	Acta Phytogeographica Suecica 47: <1-139> [Araucarian lakes, terrestrial vegetation]
	Bonner	1965	655	Index Hepat 5: 264
	Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]
	Engel	1976	5919	Annales Botanici Fennici 13: <132-136> southern South American Hepaticae and Anthocerotae collected by H. Roivainen
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 92ab, microfiche 51 fig 3472-3473 [from type; "Chile, Lechler 1335"] - "(olim Frull Philippii St ms)" - "(Frull microceras Mont ms, circum Valdivia communis)"]
	Villagrán et al	2005	4527	Hepáticas y Antocerotes del Archipiélago de Chiloé.
	Hässel de Menéndez & Rubies	2009	2273	Catalogue of Marchantiophyta and Anthoceratophyta of southern South America: 137 [Chile]
	Villarroel	2020	5918	Flora del Parque National Puyehue, Chile

chiovendae Gola 1914 2112

Subgenus: Incertae sedis

Typus: Abyssinia. Amhara-Dembià prope Gondar 19.11.1909, Chiovenda 2874 / 6.11.1909, Chiovenda 2778

Basionym:

Distribution: Ethiopia

spec nov	Gola	1914	786	Annali di Botanica 13: 71-72, pl 4(12, 16, 22)
	Cufodontis	1952	2562	Phyton 4 (1-3): 76 [Ethiopia]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 85
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 27 [Ethiopia] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 29 [Ethiopia] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

chodatii Beauverd 1924 187

Subgenus: Chonanthelia

Typus: Bolivia sd, Herzog 2608 pp.

in hb G [lectotypus by BONNER 1965]

Basionym: Frullania grandistipula [pp from Bolivia] Steph. 1924 [hom illeg] [non Lindenb. in G., L. & N. 1845]

Distribution: Bolivia

nom nov	Stephani	1924	687	Spec Hepat 6: 533 [Bolivia (Herzog legit N° 2608 e. p .); Mexico (Arsen N° 7783).]
	Bonner	1965	655	Index Hepat 5: 264 [Mexico, Bolivia] & 315-316 [lectotypification, type Bolivia, s. d., Herzog 2608 pp, in hb G,]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Australia: NSW]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41 [Mexico ?]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 201-203, Fig. 12, map 6 b (:285) [only type location] [subg Chonanthelia, sect Chonanthelia, subsect Triplicatae; whereas Arsen 7783 belongs to subg. Trachycolea]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 110 [incorrectly reported from Australia]
	Gradstein, Meneses Q, Arbe	2003	975	J Hatt Bot Lab 93: 16 [Bolivia]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Söderström et al.	2016	4175	World checklist: PhytoKeys 59: 273 [subg. Frullania]

ciliata Lindenb. & Gottsche 1847 893

Subgenus: Incertae sedis

Typus: Colombia. Prov. Merida. sd, Moritz, J. W. K.

in hb G 15504 or ? 15004 G00113756 - n° SIB 157552/1 [hb KOHLMEYER, ex hb BESCHERELLE]

Basionym:

Distribution: Colombia

spec nov	Lindenberg & Gottsche in G., L. & N.	1847	2848	Syn Hepat: 775
	Stephani	1911	686	Spec Hepat 4: 634
	Verdoorn	1930	293	Ann Bryol Suppl 18 "Frullania ciliata Lindenb. et Gottsche hat nichts mit Jubula zu tun (cf. Spruce l.c.)."
	Bonner	1965	655	Index Hepat 5: 264
	Hattori	1975		Misc Bryol Lichen 7 (3): 47-48, fig 1
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-16, microfiche 48 fig 3245 ["Am trop Merida"]

cinchonae Gottsche 1845 894

Subgenus: Incertae sedis

Typus: , "on cinchona bark" ?, R. Haecker

in hb GOTTSCHE

Basionym:

Distribution: Peru

	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 455
	Stephani	1911	686	Spec Hepat 4: 638-639 [type specimen lost]
	Bonner	1965	655	Index Hepat 5: 265 [as Fr. cinchonale]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]

clandestina (Nees & Mont.) Nees 1845 895

Subgenus: Meteoriopsis Obtusilobae

Typus: Bolivia d'Orbigny

Basionym: Lejeunia clandestina Nees & Mont. 1836

Distribution: Costa Rica, Bolivia, Colombia, Ecuador, Venezuela, Peru

comb nov	Nees in G., L. & N.	1845	2850	Syn Hepat: 457 [Peru]
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 45 & 52-53 [Rio Verde]
	Stephani	1911	686	Spec Hepat 4: 529-530 [Bolivia, Peru)
	Herzog	1953	640	Rev Bryol Lichen 20: 128 [Costa Rica]
	Bonner	1965	655	Index Hepat 5: 265 [Bolivia, Peru]
	Stotler	1969	4761	Nova Hedwigia 18: 448, pl 14 (: 507) [Colombia, Ecuador, Peru]
	Stotler	1970	194	The genus Frullania, separata: 448, pl 14 (: 507) [Colombia, Ecuador, Peru]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Menzel	1984	142	Willdenowia 14: 506 [not in Peru, but in Bolivia - error by Gottsche ..1845, Stephani 1911: 530, Stotler 1969: 448]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-103, microfiche 58 fig 4026 ["Peru, Original, d'Orbigny"]
	Morales Z.	1991	307	Trop Bryol 4: 37 [Costa Rica]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35 [Catalogue Colombia]
	Gradstein et al	2003	975	J Hatt Bot Lab 93: 16 [Bolivia]
	Holz	2004	1184	[checklist of Costa Rica]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Morales et al	2007	1501	Cryptogamie, Bryologie 28/1): 41-77 [Venezuela]
	Churchill et al	2009	2593	Catálogo de las Briofítas de Bolivia:: 65
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 358 [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [Colombia]
	Gradstein	2020	5694	Frahmia 17: 15 [Ecuador]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 362, fig. 36m [key -Ecuador, Colombia]

clarkii J.J. Atwood & Mamontov 2018 2485

Subgenus: Chonanthelia Pluricarinatae

Typus: Mexico without locality or collector

G (00114898), holotype

Basionym:

Distribution: Mexico

spec nov	Atwood & Mamontov	2018	4892	Phytotaxa 383(2): 206-212, fig 1(1-15)

clavata (Hook.f. & Taylor) Gottsche, Lindenb. & Nees 1845 897

Subgenus: Trachycolea Acutilobae

Basionym: Jungermannia clavata Hooker & Taylor 1845

Distribution: Australia (NSW, QLD, VIC, ACT), Tasmania

comb nov	Taylor in G., L. & N.	1845	2850	Syn Hepat: 428-429
	Mitten in Hooker	1860	561	Antarctic voyage, III. Fl Tasmaniae 2: 237 [Tasmania]
	Gottsche in Mueller	1880	1489	Frag Phyt Australia 11, suppl Hepaticae :65 [Tasmania]
	Bastow	1888	845	Papers Proceed Roy Soc Tasmania for 1887: 263 [Tasmania]
	Stephani	1911	686	Spec Hepat 4: 676
	Bonner	1965	655	Index Hepat 5: 265
	Hattori	1979	485	J Hatt Bot Lab 45: 328-329, fig 4(a-k) from isotype
	Hattori	1983	499	J Hatt Bot Lab 54: 137
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 179, fig 119 & 121 [NSW, TAS, VIC, endemic to Australia?]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Australia: NSW, VIC; Tasmania]
	Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 157 [Checklist Tasmania]
	Hattori	1988	429	Nova Hedwigia Beih 90: 148 [Australia: QLD, NSW]
	Jolley & Milne	1998	2423	Australasian bryol newsletter 39: 10 [Australia, Victoria, Grampians NP]
	Milne & Louwhoff	1999	753	Hikobia 13: 25-26 [on a myrtle beech, Nothofagus cunninghamii]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia (NSW, QLD, VIC, ACT, TAS)]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 244 [field guide, foto, Tasmania, Victoria, Australian Capital Territory, New South Wales]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Grove	2004	1160	Species list for the Warra LTER site: 12 [Tasmania]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW ACT VIC TAS]

claviloba Steph. 1911 769

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Amboina, Salhoetoe 1889, G. Karsten s.n.

in hb G G00069191 - n° SIB 124907/1 (STEPHANI 14402) [typus]

Basionym:

Distribution: Sri Lanka, Thailand, Vietnam, Malaysia (Selangor, Johor, Sarawak, Sabah), Borneo, Indonesia (Sumatra, Java, Ambon), Philippines

spec nov	Stephani	1911	686	Spec Hepat 4: 651
	Verdoorn	1929	245	Ann Bryol 2: 143 [Java, Sumatra]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 120-121, fig 184-185, 208,218
	Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 39-40; Java] & 137
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 60-61 [Malay Peninsula, Sumatra, Java, Netherl Neu Guinea]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 497 [Java]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 206 [Sarawak]
	Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 317 [Borneo, Sarawak]
	Bonner	1965	655	Index Hepat 5: 266 [Amboina, Java]
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 82 [Borneo, Mt. Kinabalu]
	Hattori	1975	547	J Hatt Bot Lab 39: 281
	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 152-154, fig 164 [from type], 165 [specimen from Borneo]
	Hattori	1976	80	J Hatt Bot Lab 40: 474
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 444 [Thailand]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 201 [Sri Lanka]
	Hattori	1982	495	J Hatt Bot Lab 51: 262
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-61, microfiche 49 fig 3301 [from type; "Amboina (lg G Karsten 1889"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 301 [Philippines]
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 22-23, fig 6(a.g) [checklist & revision of genus Fullania, Thailand]

cleistostoma Schiffn. & Wollny 1909 1196

Subgenus: Frullaniopsis

Typus: (1) Italy. Südtirol, in Aglund near Meran, 400m "Südtirol: An den Dorfmauern (Granit) in Algund bei Meran, ca. 400 m." - (2) Meran, an Weinbergmauern zwischen Gratsch und Dorf Tirol (1) 19.8.1899, Schiffner - (2) 15.8.1909, w. Wollny

in hb GZU (19.8.1899, V. Schiffner, Südtirol: among Frullania dilatata)
in hb GZU (15.9.1909 W. Wollny, Meran)
in hb EGER [Topotype or cotype]

Basionym:

Distribution: Italy, Russia, Mongolia

spec nov	Schiffner & Wollny in Schiffner	1909	968	Österr Bot Zeitschr 59 (12): 467-472, fig 1-26
	Schiffner	1910	436	Österr Bot Zeitschr 60 (11): 432-433 [close to Fr. saxicola]
	Stephani	1910	686	Spec Hepat 4: 433
- syn nov	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 631 [syn nov sub Fr. inflata]
	Evans	1923	865	Bryologist 26: 65-67
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 42 [syn sub Fr. saxicola]
	Schiffner	1936	2561	Krit Bemerk europ Leberm, ser 21: 12-14 [Hepat europ exsicc, nr. 1022, Orig.-Ex. ! April 1919, leg w. Wollny]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 764 [syn sub Fr. inflata]
	Müller	1952	804	Feddes Repert 55: 222
	Vajda	1956	2684	Bot Közlem 47: 104-106 [mediterrane Frullania inflata GOTTSCHE = F. cleistostoma SCHIFFNER & WOLLNY]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1253 [syn sub Fr. inflata]
	Pospisil	1962	953	Acta Musei Moraviae 37: 110
	Bonner	1965	655	Index Hepat 5: 266
	Pocs	1976	2686	Fol. Hist. nat. Mus. Matr. 4: 19 [types in hb EGER]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 84, microfiche 51 fig 3455 ["Tirol Meran, Wollny legit"]
	Suanjak	2001	979	http://www.uni-graz.at/botwww/bibliothek/liverworts-types-in-gzu.html [in hb GUZ]
valid spec.	Mamontov, Potemkin, et al	2018	4978	Novosti sistematiki nizshikh rastenii 52(2): 491 [valid species]
	Mamontov et al	2020	5641	Nova Hedwigia, Beiheft 150, p. 201-242 [belong to subg. Frullaniopsis subgen. nov.]

clemensiana Verd. 1932 333

Subgenus: Steerea

Typus: Malaysia: Borneo, Sabah, Mt. Kinabalu, Tenompok, 5000-7000 ft 1931/1932, Clemens

in hb FH (hb VERDOORN 17491) [lectotypus, see HATTORI 1975]
in hb FH (hb VERDOORN 17499) [syntypus]
see also Fr clemensii in hb L

Basionym:

Distribution: Malaysia (Sabah), Borneo

spec nov	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 493
	Hattori & Kaminura	1971	532	J Hatt Bot Lab 34: 429-436, f. 1-5 [as Steerea mastigophoroides]
	Hattori	1975	409	Misc Bryol Lichen 7 (1): 13-14 [comb. nov. as Steerea clemensiana as. syn. nov. sub St. mastigophoroides]
	Schuster	1992	603	Hepat N America 5: 32 [sg. nov. Steerea (HATT & KAM) SCHUSTER}

cobrensis Gottsche 1894 903

Subgenus: Trachycolea

Typus: Cuba.Cobre 1857, Wright 293

in hb G (ex hb B)

Basionym:

Distribution: USA (FL), Cuba

spec nov	Gottsche in Stephani	1894	228	Hedwigia 33: 142-143
	Stephani	1910	686	Spec Hepat 4: 385
	Verdoorn	1933	233	Ann Bryol 6: 96 [Hepat select crit, ser 5 & 6 no 292; America sept.] & 104
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 762-764, fig Fr.c.[1-14)
	Bonner	1965	655	Index Hepat 5: 267
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 54, microfiche 50 fig 3409 [from type; "Cuba Wright"]
	Schuster	1992	603	Hepat N America 5: 222- , fig 810
	Lima	2019	5121	Frullania no Brasil [Thesis]: 111-112, fig. 12[distribution]

colliculosa von Konrat, Braggins, Hentschel & Heinrichs 2010 2426

Subgenus: Diastaloba Diastaloba I

Typus: New Zealand. South Island, Kahurangi NP, ca. 200m below summit of Mt. Arthur from ist ridge approach above Horseshoe Basin 10/12/1999, Von Konrat 99/405

in hb AK [holotypus]
in hb CHR [isptyope]
in hb F [isotypus]

Basionym:

Distribution: New Zealand. South Island, Kahurangi NP, Mt. Arthur

spec nov	Konrat, Hentschel, Heinrichs, Braggins & Pócs	2010	2377	Nova Hedwigia 91(3-4): 494-497, fig 2, 3, 4, 8

compacta Gottsche 1911 904

Subgenus: Meteoriopsis Intumescentes

Typus: Cuba. sd, Wright 209

in hb G

Basionym:

Distribution: USA (FL), Cuba

spec nov	Gottsche in Stephani	1911	686	Spec Hepat 4: 493-494
	Clark & Svihla	1951	338	Bryologist 54: 54-56, fig 1-18
	Bonner	1965	655	Index Hepat 5: 269
	Stotler	1969	4761	Nova Hedwigia 18: 436 [syn sub Fr. brasiliensis]
	Stotler	1970	194	The genus Frullania, separata: 436 [syn sub Fr. brasiliensis]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 44, microfiche 57 fig 3935 ["leg Wright, Cuba"] - 3936
	Schuster	1992	603	Hepat N America 5: 67-71, fig 782 [is a good species]

complicata Steph. 1911 905

Subgenus: Incertae sedis

Typus: Bolivia

in hb G 3161 [ex hb BESCHERELLE "olim Frullania hypogyna"]

Basionym:

Distribution: Bolivia

spec nov	Stephani	1911	686	Spec Hepat 4: 671-672
	Bonner	1965	655	Index Hepat 5: 269
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 64, microfiche 47 fig 3161[from type; "olim Frullania hypogyna Steph Bolivia Herb Bescherelle"]

confertiloba Steph. 1910 259

Subgenus: Chonanthelia Cladocarpicae

Typus: Colombia: Santander, Sanjil (= San Gil) -.5.1901, W. Micholitz sn or 2439/18 [vide hb G]

in hb G G00069156 - n° SIB 124256/1 - G19793 [holotypus]

Basionym:

Distribution: Panama, Colombia, Peru, Ecuador, Brazil

spec nov	Stephani	1910	686	Spec Hepat 4: 326
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 85 [Brazil] [? synonym with Fr. riojaneirensis]
	Bonner	1965	655	Index Hepat 5: 270
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia; doubtful record]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 27, microfiche 46 fig 3109 [from type; "Columbia Andes Santander Micholitz"]
	Yuzawa, Mues & Hattori	1987	509	J Hatt Bot Lab 63: 425-436
	Yuzawa	1991	525	J Hatt Bot Lab 70: 248-250, fig. 35, map 4 c(:283)
	Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 38 [Catalogue Colombia; doubtful as Micholitz collected in Indomalesia]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86 [Brazil; as valid species, not as syn sub Fr apiculata]
	Campos & Uribe	2006	1472	Crypt Bryol 27 (4): 500, fig 2(a-c) [new to Colombia]
	Yano	2008	1684	Boletim Instituto Botanica 19: 90 [syn sub Fr apiculata, because of Gradstein & Costa 2003; Brazil; catalog]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 358, fig 4(a-c) [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [new to Colombia]
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
	Gradstein & Perez	2021	6056	Candollea 76: 47 [Ecuador]

congesta Gottsche, Lindenb. & Nees 1845 1737

Subgenus: Diastaloba Diastaloba II

Typus: Lord Auckland's Group J.D.H, 1840, Jungermannia congesta n. sp. [labelled 'd' in pencil, specimen lower rhs]
in hb BM

Basionym: Jungermannia congesta Hooker & Taylor 1844 hom. Illeg [Art 53.1], [non Lehm. 1829]

Distribution: Australia, New Zealand, Auckland Isl [New Zealand]

	G., L. & N.	1845	2850	Syn Hepat: 451
	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 162 [New Zealand]
	Mitten in Hooker	1860	561	Antarctic voyage, III. Fl Tasmaniae 2: 237 [Tasmania]
	Hooker	1867	1154	Handbook New Zealand Flora: 538 [New Zealand, N Island, Lord Auckland's groups]
	Gottsche in Mueller	1880	1489	Frag Phyt Australia 11, suppl Hepaticae :65 [Tasmania]
	Bastow	1888	845	Papers Proceed Roy Soc Tasmania for 1887: 264-265 [Tasmania]
	Carrington & Pearson	1888		Papers and proceedings of the Royal Society of Tasmania for 1887: 1 [Falkland Isl]
	Stephani	1911	686	Spec Hepat 4: 658 [Tasmania, Auckland Isl]
	Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 137
	Hodgson	1949	203	Trans Roy Soc New Zealand 77: <361-389> [a difficult species, closely related to Fr rostrata]
	Hodgson	1962	658	Rec Dominian Mus 4 (11): 125 [Auckland Isl, Campbell Isl]
	Bonner	1965	655	Index Hepat 5: 271
	Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]
	Hamlin	1973	656	Rec Dominian Mus 8 (10): 143 [New Zealand, there is no valid basionym]
	Hattori	1978	416	Misc Bryol Lichenol 8: 45-46 [syn nov sub Fr rostrata]
	Hattori & Mizutani	1982	495	J Hatt Bot Lab 52: 447 [syn nov sub Fr robusta]
	Hattori	1983	499	J Hatt Bot Lab 54: <133-182> [syn sub Fr rostrata]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-90, microfiche 49 fig 3338 [from type; "Auckland Ins, Original hb JACK"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 [Australia]
	Engel	1988	111	Fieldiana Bot NS 25: 164 [not at Falkland Is.]
	Glenny	1998	1412	Tuhinga 10: 132 [sub Fr rostrata]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 440-441 [distinct species by chemosystematic; sesquiterpene lactone-type]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 1st of 6 pages [Key to Frullania of New Zealand, throughout]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand, sub Fr rostrata]
	Konrat, Braggins, Asakawa & Toyota	2006	1465	J H B L 100: 553-576, fig 1(1-9), 2(1-4), 3(12-2,3), map [lectotypification; Fr congesta is an seperate species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia, syn sub Fr rostrata]

consociata Steph. 1910 911

Subgenus: Trachycolea

Typus: China. Yunnan, Tchou-fong-chan. 7.10.1894, Delavay 1pp
in hb G G00069194 - n° SIB 125251/1 - G7929

Basionym:

Distribution: China (Gansu, Guizhou, Yunnan)

spec nov	Stephani	1911	686	Spec Hepat 4: 461
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 36
	Reimers	1931	229	Hedwigia 71 (1/2): 35, fig 8 [China]
	Bonner	1965	655	Index Hepat 5: 272
	Hattori	1978	482	J Hatt Bot Lab 44: 550-551, fig 217 [from type]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 132 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-117ab, microfiche 51 fig 3505 ["China Yunnan, Delavay 1894"] -3506 ["Cina Yunnan, Delavay ..."]
	Piippo	1990	521	J Hatt Bot Lab 68: 38-39 [annotated catalogue of China]
	Lin & Wu	1994	1229	Chenia 2: 83 [China, Guizhou Prov.]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 393 [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 34 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 3 [Yunnan, China]

contracta Steph. 1911 913

Subgenus: Trachycolea

Typus: New Caledonia. Ile de Pins, Kubo -.6.1909, Le Rat 51

in hb G G00069158 - n° SIB 124255/1 (hb STEPHANI 22739) [typus] > see fr0913.1.jpg & fr0913.2.jpg

Basionym:

Distribution: New Caledonia

nom nud	Paris	1910	911	Rev Bryol 37 (1): 41 [New Caledonia: Isle of Pines]
spec nov	Stephani	1911	686	Spec Hepat 4: 469
	Verdoorn	1930	293	Ann Bryol Suppl 1: 34 [syn sub Fr. squarrosa]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 776 [syn sub Fr. squarrosa]
	Kamimura	1961	199	J Hatt Bot Lab 24: 17 [syn sub Fr squarossa]
	Bonner	1965	655	Index Hepat 5: 272
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 123
	Hattori	1983	0	note in hb G: "very remarkable species perhaps belonging to subgen. Huerlimannia"
	Hattori	1984		note in hb G "Fr. ericoides var. contracta , com nov"
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-118, microfiche 51 fig 3507-3508 ["N Caledonia, leg Mmme Lerat"]
	Hattori	1986	506	J Hatt Bot Lab 60: 208-209, fig 1 [from type; a valid species]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 170 [syn sub Fr. ericoides]

convoluta Lindenb. & Hampe 1851 915

Subgenus: Meteoriopsis Meteoriopsis

Typus: Costa Rica. Turrialba sd, Oerstad

in hb S (B22692, 22696, 22697, 22699) [Typus]
Lectotype: G00113901
Isolectotypes G00113902, BM728470, BM728471

Basionym:

Distribution: Mexico, Costa Rica, Panama, Guadeloupe, Dominican Rep, Venezuela, Ecuador, Peru, Colombia, Galapagos Isls [Ecuador], Surinam

spec nov	Lindenberg & Hampe in Hampe	1851	281	Linnaea 24 (3): 303 [Costa Rica]
	Stephani 1911	1911	686	Spec Hepat 4: 608
	Pagán	1942	3152	Bryologist 45(4): 108 [Guadeloupe]
	Clark & Svihla	1947	323	Bryologist 50: 316-317, fig 1-18
	Clark & Svihla	1948	325	Bryologist 51: 24 [key to Fr. of Middle America: Costa Rica (Panama, Guadeloupe)]
	Herzog	1953	640	Rev Bryol Lichen 20: 129 [Costa Rica]
	Bonner	1965	655	Index Hepat 5: 272
	Robinson	1967	771	Bryologist 70: 51 [Colombia]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Steyermark & Maguire	1984	1205	Acta Bot Venezuelica 14(3): 70 [Venezuela]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-42ab, microfiche 56 fig 3830 ["Mexico 1271, Leibold"] - 3831 ["Turialea, Costarica, Oersted, Original"]
	Kron	1988	510	J Hatt Bot Lab 64: 355, fig 5(f-k) [key]
	van Zanten & Gradstein	1988	88	Nova Hedwigia Beih 90: 56-57 [experimental dispersal geography]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41 [Mexico]
	Morales Z.	1991	307	Trop Bryol 4: 37 [Costa Rica]
	Wolf	1993	2379	Phytocoenologia 22(1): 54 [Colombia, Epiphyte - Upper montane rain forest communities: canopy community]
	Wolf	1993	2380	Phytocoenologia 22(1): 27 [Colombia, Epiphyte - Lower montane rain forest communities: accidental taxa with preference for the Upper Mountain Rain forest]
	Wolf	1993	2379	Phytocoenologia 22(1): 72 [Colombia, Epiphyte - Upper montane rain forest communities: Oropogon bicolor-O. loxensis community]
	Wolf	1994	2384	Selbyana 16(2): 188 [Colombia, Epiphyte - canopy of Upper Mountain rain forest: common taxa]
	Sillett. Gradstein & Griffin III	1995	2855	The Bryologist 98: 251-260 [Catalogue of Costa Rica]
	Kappelle	1996	1409	Los Bosques de Roble, Cordillera de Talamanca, Costa Rica: 257
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 35-36 [Catalogue Colombia]
	Müller & Frahm	1998	713	Trop Bryol 15: 29-43 [Ecuador]
	Van Dunne & Kappelle	1998	1391	Rev biol trop [online] 46 (2): page 2 of 8 [Costa Rica, montane cloud forest]
	Flegel, Adam & Becker	1999	1244	Phytochemistry 52: 1633-1638 [chemical constituents]
	Gradstein	1999	5901	Mem N York Bot Gard 84: 68 [Peru, Paramos]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 1900-4000m: Panama, Colombia, Venezuela, Ecuador, Peru]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Gradstein, Griffin III, Morales & Nadkarni	2000	1405	Caldasia 23(1): 208 [Costa Rica: Monteverde]
	Grims	2001	1136	Moosherbar in hb LINZ, from Brasilien, Costarica [Internet]
	Merwin, Gradstein & Nadkarni	2001	1075	Trop Bryol 20: 67 [Montverde, Costa Rica]
	Pinzon & Linares	2001	1148	Caldasia 23(1): 241 [Colombia, La Herrera]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Holz, Gradstein & Heinrichs	2002	1404	Bryologist 105(3): 336-337 [Costa Rica]
	Holz	2003	1185	Diversity Ecology Montane Quercus Forest, Costa Rica [Dissertation]: 46, 76, 114, 150 [paramo & upper montane oak forest, pendant]
	Rico & Pocs	2004	1166	Crypt Bryol 25 (3): 259 [Venezuela, Roraima-tepui]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 398, 416, tab 3 [Podocarpus NP, Ecuador, epiphytic]
	Holz & Gradstein	2005	1408	J Biogeogr 32: 1595 [Costa Rica: Cordillera de Talamanca]

Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 94 [Ecuador; Podocarpus NP]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
León-Yánez, Gradstein. & Wegner	2006	2162	Hepáticas (Marchantiophyta) y Antoceros (Anthocerotophyta) del Ecuador, catálogo.p. 40 [Galapagos]
Uribe	2008	1513	Caldasia 30(1): 66-70, fig. 3 & 4 [Monography of subgenus Meteoriopsis] [belongs to Meteoriopsis]
Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149 [new to Galapagos Isl, Isabela (Alcedo), pendent on bark in moist evergreen woodland, c. 1000 m.]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 384 [Dominican Republic, Hispaniola]
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 266 "doubtful record, cited by Fulforsd $ Sharp 1990" [Guadeloupe] ?????
Gradstein & Uribe	2011	3230	Caldasia 33(2): 358-360, fig 5(a-j) [Colombia; synopsis of Frullaniacae & keys]
Howarth	2011	5110	Thesis: 253 [Peru, epiphytic cloud forest]
Romanski et al.	2011	3486	Supplementary list to Bryologist 114(4): <720-731> [Peru]
Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Gradstein	2021	5642	Mem NY Bot Gard 121: 362-364, fig 37a,b [key - Ecuador, Colombia]
Söderström, Hagborg, Hentschel et al	2023	6420	Lindbergia 2023(1): 1-3 [Lectotypification]

cordaeana Lindenb. 1845 917

Subgenus: Incertae sedis

Typus: Peru. "In cortice Chinae flavae" sd, Corda in hb NEES (sub Fr. atrata)

Basionym:

Distribution: Peru

spec nov	Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 463
	Stephani	1911	686	Spec Hepat 4: 605
	Bonner	1965	655	Index Hepat 5: 273
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Uribe	2008	1513	Caldasia 30(1): 91, [type was not available] [Monography of subgenus Meteoriopsis]

cordistipula var. mutica (Gottsche, Lindenb. & Nees) Schiffn. 1898 2500

Subgenus: Frullania

Typus: Java

Basionym: Frullania cordistipula var. β mutica Gottsche, Lindenb. & Nees 1845

Distribution: Indonesia (Java)

	Schiffner	1898	Consp. Hepat. Arch. Ind.: 323

cordistipula (Reinw., Blume & Nees) Nees 1845 920

Subgenus: Frullania

Basionym: Jungermannia cordistipula Reinw., Blume & Nees 1824

Distribution: Malaysia (Sabah), Borneo, Indonesia (Sumatra, Java, Halmaheira), New Guinea, New Caledonia, Fiji, Society Isl (Tahiti)

Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
Nees in G., L. & N	1845	2850	Syn Hepat: 454 [No 96]
Montagne	1848	473	Ann Sci Nat Bot, ser 3, 10: 116
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 91 [No 235]
Mitten	1862	573	Bonplandia 10 (2): 19 [Fiji]
Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 313-314 [Java, Sumatra, Halmheira]
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 322-324
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 322-324
Schiffner	1900	904	Hedwigia 39: 207 [Java]
Merrill	1906	1496	Philippine J Sci C, Bot 5: 311 [Philippines: Mt. Pulog]
Stephani	1911	686	Spec Hepat 4: 542
Verdoorn	1929	245	Ann Bryol 2: 139 & 135 [Java]
Verdoorn	1929	245	Ann Bryol 2: 139
Verdoorn	1930	293	Ann Bryol Suppl 1: 87-88, fig 141-142, 155-156
Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 86-87; Java]
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 59 [Java]
Bonner	1965	655	Index Hepat 5: 274
Hattori	1972	539	J Hatt Bot Lab 36: 423-424, fig 8 [not correct, vide Hatt. 1975]
Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 80-81 [new to Borneo, Mt. Kinabalu]
Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 158-161, fig 168
Hattori	1977	479	J Hatt Bot Lab 43: 416 [New Caledonia]
Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 124
Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-136, microfiche 59 fig 4071 ["Java, ... , 98"]
Hattori	1986	506	J Hatt Bot Lab 60: 229 [serrata - cordistipula: only to distinguish, when gynoecia present]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86 [not in Brazil]
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 20, photos [Sumatra, with key]

cordistipula var. regularis Nees 1845 923

Subgenus: Frullania

Basionym:

Distribution: Indonesia (Java)

Nees in G., L. & N	1845	2850	Syn Hepat: 454
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 91
Bonner	1965	655	Index Hepat 5: 274

cordistipula var. dentistipula S.Hatt. 1986 922

Subgenus: Frullania

Typus: Indonesia. Ceram, Manusela Nat. Park, 1480m

in hb NICH: HA87661 [holotypus]
in hb KYO [isotypus]

Basionym:

Distribution: Indonesia (Ceram)

Hattori	1986	507	J Hatt Bot Lab 60: 242

cornuta Steph. 1911 928

Subgenus: Trachycolea

Typus: New Caledonia. sd, Le Rat 18 pp

in hb G G00069195 - n° SIB 124900/1 - G18443 (ex hb E.G. Paris 4, Nov Caledon. - ad arbor via Nemearu-Bourgil, leg Le Rat, Junio 109)
in hb G G00069196 - n° SIB 124902/1 - G18444 (Le Rat 18 pp) [lectotypus by HATTORI 1981, note in hb G from 1977]

Basionym:

Distribution: New Caledonia

spec nov	Stephani	1911	686	Spec Hepat 4: 467-468
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Bonner	1965	655	Index Hepat 5: 275
	Hattori	1977	479	J Hatt Bot Lab 43: 416 [New Caledonia]
	Hattori	1977	0	note in hb G: "G18443 different from lectotype, coll Le Rat 19 ex parte in G18444" Feb 15 1977
	Hattori	1977	0	note in hb G: "G18444 designated as lectotype, agrees with original description and Icon Hepat inedit" Feb 15 1977
	Hattori	1981	492	J Hatt Bot Lab 49: 368-370, fig 7(a-i) from lectotype, lectotypification
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 124
	Hattori	1984	503	J Hatt Bot Lab 57: 409-411, fig 3 [detailed description]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-120, microfiche 51 fig 3510 [from type; "N Caledonia, LeRat"]
	Hattori	1986	506	J Hatt Bot Lab 60: 210-217, fig 2(a-j), 3

crassissima J.J. Engel, von Konrat & Glenny 2023 2544

Subgenus: Trachycolea Ornithocephalae

Typus: New Zealand, South Is., Nelson Lakes Natl. Park, St. Arnaud, St. Arnaud Range track, 800 m, J.-P. Frahm 27- 2, 8 Mar. 1998

holotype: GOET (c. per. + ♂); isotype: F

Basionym:

Distribution: New Zealand (South Island)

	Engel, von Konrat, Glenny	2023	6397	Acta Biologica Plantarum Agriensis 11(1): 251, 1-4 [New Zealand, with key]

crassitexta Steph. 1910 932

Subgenus: Trachycolea

Typus: Australia. Queensland, Brisbane sd, F.M. Bailey sn

in hb G G00069209 - n° SIB 125567/1 - G18201 [typus, only 2 small pieces !!]

Basionym:

Distribution: Australia (QLD)

spec nov	Stephani	1910	686	Spec Hepat 4: 423
	Verdoorn	1930	0	note in hb G: "diese spec. Habe ich nicht gewagt zu untersuchen ! F. Verdoorn"
	Bonner	1965	655	Index Hepat 5: 276
	Hattori	1979	485	J Hatt Bot Lab 45: 329-330, fig 5(a-i) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-200, microfiche 53 fig 3607 ["Queensland, Bailey"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Australia: QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]

crawfordii Steph. 1894 933

Subgenus: Trachycolea Australes

Typus: Australia. New South Wales, Maclay River sd, Crawford [com. Baron Ferd, von Müller]

in hb MEL

Basionym:

Distribution: Australia (NSW)

spec nov	Stephani	1894	228	Hedwigia 33: 143
	Stephani	1910	686	Spec Hepat 4: 416
	Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 106 [Australia]
	Bonner	1965	655	Index Hepat 5: 276
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 124
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-201, microfiche 53 fig 3608 ["N.S.Wales, Maclay River, Crawford"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 & 142 [Australia: NSW]
	Hattori	1987	400	Bryologist 90 (4): 366 & 370 [not on Lord Howe Isl.]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia (NSW)]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 244 [field guide, Australian Capital Territory, New South Wales]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia NSW]

crenatiloba Steph. 1924 526

Subgenus: Diastaloba Diastaloba I

Typus: Hawaii, 1500 ft 1911, M. Newell sn

in hb G G00069160 - n° SIB 126188/1 (Brother Matthias Newell ex herb Rev. D. LILLIE 166) [holotypus]
in hb G G00046114 - n° SIB 90531/1 [typus] (World - no informations]
in hb E E00293796 (French Polynesia, 1911, Newell sn) [lectotypus]

Basionym:

Distribution: Hawaii

spec nov	Stephani	1924	687	Spec Hepat 6: 551-552
	Verdoorn	1930	293	Ann Bryol Suppl 1: 97 [syn nov sub Fr. apiculata]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 170
	Miller	1953	349	Bryologist 56: 45 [sub Fr apiculata]
	Clark	1955	369	Bryologist 58: 68, 71 [not syn sub Fr. apiculata]
	Miller	1963	834	Ark Bot, ser 2, 5: 518 [sub Fr. apiculata]
	Bonner	1965	655	Index Hepat 5: 276
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 124
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-50, microfiche 49 fig 3290 [from type; " Hawaii 1911 legit Matthias Newell, Herb Lillie no 166 1912"]
	So & Wang	2006	1466	J H B L 100: 422, fig 1(c-d) [Hawai, key to Hawaiian species]

cretacea Hentschel, Schmidt & Heinrichs 2009 2410

Subgenus: Incertae sedis

Typus:

AMNH B-011 [holotype]

Basionym:

Distribution: Fossil (Albian) in amber, Myanmar

spec nov	Hentschel, Schmidt & Heinrichs	2009	1839	Crypt Bryol 30(3): 323-328 [from Upper Albian amber from Myanmar]
	Heinrichs et alii	2012	3151	Rev Palaeobot Palyn 169: 21: 23-26, fig. 1 , pl. 1-2 [gametophyt]
	Feldberg et al	2021	5972	Bry Div Evo 43(1): 34, fig 6B

crispiloba Steph. 1894 937

Subgenus: Meteoriopsis Intumescentes

Typus: Brazil. "inter alias hepaticas" sd, Sellow 139

in hb G G00069208 - n° SIB 124882/1 - G1608 (ex hb JACK, hb STEPHANI 139) [holotypus]

Basionym:

Distribution: Mexico, Honduras, Venezuela, Peru, Brazil

spec nov	Stephani	1894	228	Hedwigia 33: 156-157
	Stephani	1911	686	Spec Hepat 4: 535-536
	Bonner	1965	655	Index Hepat 5: 277
	Stotler	1969	4761	Nova Hedwigia 18: 465-466, pl 29(251-256)
	Stotler	1970	194	The genus Frullania, separata: 465-466, pl 29(251-256)
	Cole	1983	1407	Brenesia 21: 154 [Central America]
	Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-105, microfiche 58 fig 4028 ["Brasilia, (Sellow leg)"] - 4029
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41 [Mexico]
	Schuster	1992	603	Hepat N America 5: 66 [zu sect. Pseudodiastaloba]
	Vasco et al	2002	1754	Biota Colombiana 3(1): 154 [Colombia: Cho]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [not in Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
	Graham et al	2015	4766	Acta Biologica Plantarum Agriensis 4: 16 [Peru] – und andere Seiten
	Gradstein	2021	5642	Mem NY Bot Gard 121: 383 [Colombia]

crispiplicata Yuzawa & S.Hatt. 1983 2104

Subgenus: Trachycolea

Typus: Japan

in hb NICH (Yuzawa 19521) [holotypus] and 19522, 19525
in hb YUZAWA (Yuzawa 19521) [holotypus] and 19522, 19525

Basionym:

Distribution: Russia (Far East), Japan

	Yuzawa & Hattori	1983	1664	J Jap Bot 58(2): 43-45
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Gambaryan	1998	1222	Chenia 5: 132 [Russia Far East]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 7, fig 7(a-v) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 22: Holotype. Japan, Honshu, Fukushima-ken, Iwaki-shi, Yoshima valley. 100 m. 26 Oet. 1980. Y. Yuzawa 19521 (NICH 237407).
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 14 [Checklist of liverworts of Russia: SIB, FAR EAST]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

cristata S.Hatt. 1981 938

Subgenus: Trachycolea

Typus: Japan. Furano, Hokkaido Exp., Forest of Tokyo Univ, 260-360m 17.8.1979, M. Mizutani 1090

in hb NICH [holotypus]

Basionym:

Distribution: Japan

spec nov	Hattori	1981	491	J Hatt Bot Lab 49: 165-168, fig 250(a-s)
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 253, fig 2 [Japan]
	Hattori	1981	491	J Hatt Bot Lab 49: 147-168 (spec nov ?
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 7-13, fig 8(a-p) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 22: Holotype. Japan, Hokkaido, Ishikari Prov., Furano-shi, Hokkaido Experimental Forest of Tokyo Univ., Onkozawa. 260-360 m. On fallen tree. 17 Aug. 19.70. M. Mizutani 1090 (NICH 113688).
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

cuencensis Taylor 1846 173

Subgenus: Chonanthelia Pluricarinatae

Typus: Peru, Cuenca sd, Jameson

in hb G [isotypus], ex hb HOOKER,
in hb MICH MICH514764 (Jameson s.n. s.d., Peru, Uncertain: Cuenca) [isotypus]

Basionym:

Distribution: Mexico (high mountains), Costa Rica, Panama, Dominican Rep., Colombia, Ecuador, Bolivia, Peru, Argentina

spec nov	Taylor	1846	292	London J Bot 5: 406-407 (No 15), Exsiccata
	Taylor in G., L. & N.	1847	2848	Syn Hepat: 775-776 (No 36b)
	Stephani	1910	686	Spec Hepat 4: 345
	Stephani	1916	222	Biblioth Bot 87: 239 [Bolivia]
	Herzog	1942	874	Beih Bot Centralbl 61 B: 570, fig 6(a-c) [Columbia, Ergänzung der Diagnose]
	Herzog	1955	107	Feddes Repert 57 (1/2): 171 [Colombia, same as Fr. pehlkeana]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Yuzawa	1983	498	J Hatt Bot Lab 54: 114-115, fig. 5 (a-q) [as Fr. parva]
	Yuzawa	1984	502	J Hatt Bot Lab 57: 398-399 [ev. conspecific with subcordistipula]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 66, microfiche 47 fig 3164 ["Quito leg Jameson ex Herb Spruce ab ipso 1890 Original .... "]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 209-211, fig. 15, map 5a(:284) [erroneously cited for Dominica, vide Schäfer-Verwimp 2010]
	Reiner	1992	1680	Candollea 47: 533-537, fig 1(A-J), 2(A-H) {Argentina] erroneously cited for Dominica
	Reiner	1992	1680	Candollea 47: 533-537 [Argentina]
	Kappelle	1996	1409	Los Bosques de Roble, Cordillera de Talamanca, Costa Rica: 257
	Fogel	1997	629	http://141.211.110.91/livrqury.htm [16.11.1997] - Genus=Frullania, printed 5.1.1998 11:11:38: page 1 of 3
	Van Dunne & Kappelle	1998	1391	Rev biol trop [online] 46 (2): page 2 of 8 [Costa Rica, montane cloud forest]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 2100-3400m: Colombia, Ecuador]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
	Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 393, 411, 414, 416, tab 2, 6 & 7 [Podocarpus NP, Ecuador, epiphytic]
	Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 92, 94 [Frullania kunzei community - differential species; Ecuador; Podocarpus NP]
	Churchill et alii	2008	1717	Trop bryol 29: 55 [Bolivia]
	Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 384 [Dominican Republic, Hispaniola]
	Schäfer-Verwimp	2010	2460	Crypt Bryol 31(4): 346 [erroneously cited for Dominica, West Indies]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 360 [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 21 [Ecuador]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):213 [checklist Panama] 39770E2014Schäfer-VerwimpPhytotaxa 172(3):214 [Panama]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Atwood	2017	4713	Evansia 34(3): 104-105 [Distribution, USA(Texas) - distict to Fr. riparia]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 51-52, fig. 3 [distribution]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 364, fig. 37c,d [key -Ecuador, Colombia]

cuneatistipula Steph. 1924 942

Subgenus: Incertae sedis

Typus: Mexico sd, Arsèn 7984

in hb G G00069206 - n° SIB 125195/1 (sd, Arsène, G. J. B. 7984) [typus]
in hb G G00128125 - n° SIB 143824/1 (1913, Arsène, G. J. B. 7822) [typus]
in hb G G00128065 - n° SIB 143823/2 (sd, Arsène, G. J. B. 7987) [typus]

Basionym:

Distribution: Mexico

spec nov	Stephani	1924	687	Spec Hepat 6: 538
	Bonner	1965	655	Index Hepat 5: 279
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 56, microfiche 50 fig 3411 [from type; "Mexico, leg Arsén 7984"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41 [Mexico]

cuneiloba Nees 1845 943

Subgenus: Trachycolea

Typus: "Patria incerta"

in hb FUNCK "in Didymodonte rugosa"

Basionym:

Distribution:

	Nees in G., L. & N.	1845	2850	Syn Hepat: 427
	Bonner	1965	655	Index Hepat 5: 279

curvilobula Schäf.-Verw., D.F.Peralta & S.M.Siqueira 2012 2450

Subgenus: Caulisequa

Typus: BRAZIL. São Paulo: Cananéia, Ilha do Cardoso, Pico do Cardoso, em vegetação arbustiva, substrato caule e ramos, 9 April 1991, S.R. Visnadi & D.M. Vital 4282

holotype SP!, paratype hb FR

Basionym:

Distribution: Brazil

spec nov	Schäfer-Verwimp, Peralta & Siqueira	2012	3323	Phytotaxa 57: 27-30
	Lima	2019	5121	Frullania no Brasil [Thesis]: 86-88, fig. 8 [distribution]
	Winter & Schäfer-Verwimp	2020	5742	Frahmia 19: 13 [comparison with Fr caulisequa, sgen Caulisequa key]

curviramea Steph. 1911 945

Subgenus: Meteoriopsis Intumescentes

Typus: Peru. Tatanara sd, Lechler

in hb G 3946

Basionym:

Distribution: Peru, Bolivia

spec nov	Stephani	1911	686	Spec Hepat 4: 684
	Stephani	1916	222	Biblioth Bot 87: 244 [Bolivia]
	Bonner	1965	655	Index Hepat 5: 280
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 51, microfiche 57 fig 3946 ["Peruvia, Tatanara (Lechler legit)"]

curvirostris Colenso 1889 [non Jack & Steph. 1894] 946

Subgenus: Incertae sedis

Typus: New Zealand. County of Waipawa, Dannevirke 1888, Colenso

Basionym:

Distribution: New Zealand

spec nov	Colenso	1889	636	Trans Proc New Zealand Inst 21: 76
	Bonner	1965	655	Index Hepat 5: 281
	Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]

curvistipula var. falcatidentata S.Hatt. 1982 951

Subgenus: Diastaloba Diastaloba I

Typus: Papua New Guinea. Morobe: Pouyu Village, 2 km SE of Aseki, 1500m 24.1.1981, Streimann & TAmba 12596

in hb NICH [holotypus]
in hb CBG 8110030 [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea / PNG)

var nov	Hattori	1982	422	Misc Bryol Lichen 9 (6): 124-126, fig a-f
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 28
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 22: Holotype. Papua New Guinea, Morobe Prov., Pouyu Viil. 1500 m. 24 Jan. 1981. H. Streimannand E. Tamba 12596 (NICH 380883).

curvistipula Steph. 1911 947

Subgenus: Frullania

Typus: Papua New Guinea (British New Guinea) sd, Micholitz sn

in hb G G00069205 - n° SIB 124885/1 - G14018 [holotypus]
in hb FH (hb VERDOORN 3932) [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

spec nov	Stephani	1911	686	Spec Hepat 4: 548-549
	Verdoorn	1930	293	Ann Bryol Suppl 1: 90-91, fig 171(:103)
	Verdoorn	1930	549	Nova Guinea 14 (4): 543
	Bonner	1965	655	Index Hepat 5: 281
	Hattori	1975	547	J Hatt Bot Lab 39: 281-284, fig 140-141
	Hattori	1978	482	J Hatt Bot Lab 44: 529-530, fig 203-204
	Hattori	1982	495	J Hatt Bot Lab 51: 215
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-135, microfiche 59 fig 4070 ["Br N Guinea, Micholitz"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 27-28, fig 1
	Hattori	1988	516	J Hatt Bot Lab 65: 418-419, fig 1 [PNG - Mt. Alb Edward]
	Schuster	1991	1151	J Hatt Bot Lab 70: 144
	Schuster	1992	603	Hepat N America 5: 44

curvistipula var. lamii Verd. 1930 952

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Irian Jaya "Dutch New Guinea", Jayawijaya, "Mamberano-Fluss" 1920, H.J. Lam (Fleischer misit)

in hb FH (hb VERDOORN 9147)

Basionym:

Distribution: Indonesia (Irian Jaya), New Guinea

	Verdoorn	1930	293	Ann Bryol Suppl 1: 91
var nov	Verdoorn	1930	549	Nova Guinea 14 (4): 542
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 59 [Netherl Neu Guinea]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1); 59 [Netherl Neu Guinea]
	Bonner	1965	655	Index Hepat 5: 281
	Hattori	1978	482	J Hatt Bot Lab 44: 530, fig 204(a-g)
	Hattori	1982	495	J Hatt Bot Lab 51: 215-216
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 28
	Hattori	1988	516	J Hatt Bot Lab 65: 421-422, fig 3 [PNG - Mt Alb Edward]

cuspidifolia Steph. 1911 955

Subgenus: Diastaloba Diastaloba I

Typus: Philippines. Luzon sd, Elmer 10199

in hb G 4072

Basionym:

Distribution: Philippines (Luzon), New Guinea (Papua New Guinea), Solomon Isl

spec nov	Stephani	1911	686	Spec Hepat 4: 543
	Verdoorn	1930	293	Ann Bryol Suppl 1: 104- , fig 174-177(:103)
	Bonner	1965	655	Index Hepat 5: 281
	Hattori	1974	544	J Hatt Bot Lab 38: 171 [Luzon]
	Hattori	1982	495	J Hatt Bot Lab 51: 216
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-137, microfiche 59 fig 4072 ["Luzon, legit Elmer 10199"] - 4073
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 28, fig 1 [Altitudinal ranges]

cuspiloba Steph. 1910 956

Subgenus: Incertae sedis

Typus: Bolivia. "Bolivia orient., Urwald des Rio Blanco", 15 ° lat. Merid. -.8.1907, T. Herzog 6087

in hb G G00069165 - n° SIB 124213/1 (ex Bryotheca E. LEVIER 6087)

Basionym:

Distribution: Bolivia

spec nov	Stephani	1910	686	Spec Hepat 4: 394
	Bonner	1965	655	Index Hepat 5: 282
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 57, microfiche 50 fig 3412 ["Bolivia orient, leg Herzog, vol 4 p. 394, Levier 6087"]

cyparioides (Schwägr.) Nees 1845 958

Subgenus: Trachycolea

Basionym: Jungermannia cyparioides Schwägr. 1814

Distribution: Peru, Brazil, Panama, Paraguay, Argentina (Patagonia, Magellan Strait), Chile, Australia ?

comb nov	Schwaegrichen in G., L. & N.	1845	2850	Syn Hepat: 419-420
	Massalongo	1885	875	Nuovo Giorn Bot Ital 17: 264 [Tierra del Fuego]
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Mascareignes]
	Renauld	1897	4828	Madagascar
	Stephani	1897	1059	Bihang Kgl Sv Vetensk-Akad Handl bot 23 III (2): 18 [Brazil]
	Stephani	1910	686	Spec Hepat 4: 429
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 166 [Patagonia, Estrecho de Magellanes]
	Kühnemann	1949	657	Lilloa 19: 354 [Argentina: Patagonia]
	Bonner	1965	655	Index Hepat 5: 283
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 177 [specimen from Mauritius = Fr. anderssonii, as type of cyparioides is from Magellan Straits]]
	Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 93, microfiche 51 fig 3474 ["Original v Fret magellan"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 34 & 142 [Australia?]
	Grolle	1995	250	Bryophyt Bibl 48: 146 [non afr3; type of cyparioides from Magellan Straits, report from Mauritius is not correct]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [not in Brazil]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Excluenda from Africa: Mauritius] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia AUST]
	NN	2007	3743	Brazil
	Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
	Hässel de Menéndez & Rubies	2009	2273	Catalogue of Marchantiophyta and Anthoceratophyta of southern South America: 138 [Argentina, Chile]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 48 [Brazil]
	Söderström, Hagborg et al.	2013	3831	Polish Botanical Journal 58(1): 270 [Paraguay]

darwinii Gradst. & Uribe 2004 2308

Subgenus: Meteoriopsis Meteoriopsis

Typus: Ecuador: Galapagos Isl [Ecuador], Isabela, Cerro Azul, 350-500m 24.04.1976, Gradstein & Sipman H-450

in hb U [holotypus]
in hb COL [isotypus]
in hb GOET [isotypus]

Basionym:

Distribution: Galapagos Isls [Ecuador]

	Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 4 Galapagos Isls] [nom. inval. (Art. 32.1(c) ICBN]
	Gradstein in Zizka & Klemmer	1994	1118	Kl Senckenbergreihe 20: 60 [Galapagos]
	Gradstein	2000		Email from 14.1.2000 [near Fr. peruviana, but with "ungezähntes Involukrum"]
spec nov	Uribe	2004	1175	Cryptogamie, Bryologie 25(4): 295-299, fig 1(a-l)
	Uribe	2008	1513	Caldasia 30(1): 70-72, fig. 5 & 7 [Monography of subgenus Meteoriopsis] [belongs to Meteoriopsis]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149 [Galapagos Isl, Widespread in the archipelago, long, pendent epiphyte on bark in moist evergreen woodland, 250-650 m.]
	Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 364, fig. 37e [key -Ecuador Galapagos]

dasyueshanensis Schäf.-Verw. & Gerh.Winter 2020 2520

Subgenus: Trachycolea

Typus: TAIWAN, Taichung County, Hopin Township, Dasyueshan National Forest Recration Area, 2270 m; 24°15.2' N, 121°00.4' E: surroundings of the Visitor Center, on bark of road side tree A. Schäfer-Verwimp DY-106, 8. Oct 2016

Holotype National Taiwan Museum (TAIM),
isotypes: FR, TAIE, JE, CAS, paratypes mentioned

Basionym:

Distribution: Taiwan

spec nov	Schäfer-Verwimp, Winter	2020	5751	Frahmia 20: 1-14 [Taiwan], fig1, 2(a-r), 3-6, 7 [map], 8

davurica var. chichibuensis (Kamim.) S.Hatt. 1976 972

Subgenus: Trachycolea

Basionym: Frullania jackii ssp. japonica var. chichibuensis Kamim. 1961

Distribution: Taiwan, Japan

	Hattori	1976	67	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (1): 21, footnote 2
	Kuo & Chiang	1988	948	Taiwania 33: 11 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 39 [annotated catalogue of China]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

davurica var. concava Chang in C.Gao & Chang 1981 2225

Subgenus: Trachycolea

Typus: China. Prov Liaoning, Benxi Shi 6.8.1973, Gao Chien et Chang Kuang-chu 8410

in hb inst Sylv et Pedol Acad Sinicae, Shenyang [typus]

Basionym:

Distribution: China

var nov	Chang in Gao & Chang	1981	1021	Fl Hep Chinae bor-orient: 154 & 208, fig 67(1-8) [China]
	Wu et alii	1984	2997	A Glossary of terms and names of bryophytes: 56
	Piippo	1990	521	J Hatt Bot Lab 68: 39 [annotated catalogue of China]

davurica fo. dorsoblastos (S.Hatt.) S.Hatt. & P.J.Lin 1985 974

Subgenus: Trachycolea

Basionym: Frullania dorsoblastos S.Hatt. 1982

Distribution: China (Shaanxi, Gansu, Xizang, Yunnan, Sichuan)

comb nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 132-133 [comb nov]
	Piippo	1990	521	J Hatt Bot Lab 68: 39 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [Sichuan]
	Furuki & Higuchi	1997	1234	Bull Natn Sci Mis, Tokyo, ser B 23(3): 88-89, pl 7(5) [oil bodies & oil droplets]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 414, fig 207(1-7) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 115-117
	Bai	2001	1742	Guizhou Science 19(4): 34 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 3-6 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1119, fig 523(1-7) [China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 227(1-7) [key in Chinese]

davurica Hampe ex Gottsche, Lindenb. & Nees 1845 727

Subgenus: Trachycolea

Typus: "in montibus Davuriae"

in hb HAMPE

Basionym:

Distribution: Alaska, Russia (Arctic, Caucasus, Siberia, Far East, Altai), China (Jilin, Shaanxi, Xizang, Henan, Anhui, Guizhou, Guangxi, Jiangxi, Yunnan, Sichuan, Hunan, Zhejiang, Hubei), Taiwan, Korea (South), Korea (North), Japan

spec nov	Hampe in G., L. & N.	1845	2850	Syn Hepat: 422
	Stephani	1910	686	Spec Hepat 4: 440
	Verdoorn	1930	550	in Handel-Mazzetti, Symb Sinic 5: 37-38
	Reimers	1931	229	Hedwigia 71 (1/2): 34-35 [may be identical with Fr jackii and Fr rotundistipula]
	Schiffner	1936	277	Österr Bot Zeitschr. 85: 17-18
	Hattori	1952	529	J Hat Bot Lab 8: 29 [as Fr japonica, closely allied to or conspecific with Fr jackii]
	Kamimura	1961	199	J Hat Bot Lab 24: 52-55 [as Fr jackii ssp. japonica], fig 19(1-17)
	Bonner	1965	655	Index Hepat 5: 283
	Hattori	1976	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 99 [China]
	Choe & Choi	1980		"Reports of Science Education 12: 27-56, Institute of Science Education, Kongju National Teacher's College, Kongju [as Fr. jackii]
	Inoue	1981	963	Mem Natn Sci Mus Tokyo 14: 65 [Japan, Mt. Fuji]
	Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 113 [Taiwan]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 254 [Japan]
	Mues, Hattori, Asakawa & Grolle	1984	500	J Hatt Bot Lab 56: 227-237, fig 1(b Perianth, d-e) [not syn to Fr. jackii]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 132 [China]
	Liu	1985	2801	Invest Stud Nat 5: <133-155> [aus 698] as Fr. jackii ssp. japonica]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-122, microfiche 52 fig 3512 ["(Daurio) Daurien (Sibirien), Original Herb Nees"]
	Kuo & Chiang	1988	948	Taiwania 33: 11 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 39 [annotated catalogue of China]
	Wu & Magill	1990		Acta Bryolichen Asiatica [Yazhou tai xian di yi xue bao = Acta bryolichenologica Asiatica, Taiwan] 2: [33-40] according #776
	Chao & Lin	1991	458	Yushania 8: 10 [Taiwan]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Chao & Lin	1992	460	Yushania 9: 198, fig 3(a-n) [Taiwan]
	Chao, Lin & Chan	1992	459	Yushania 9: 15-16, fig 2(a-i) [Taiwan, abies forest] "is not davurica"
	Bai	1993	1225	Chenia 1: 88 [China]
	Zhang et alii	1993		[aus 698]
	Konstantinova & Vasiljev	1994	650	Arctoa 3: 130 [Siberia, Sayan Mt.]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Vana & Ignatov	1995	648	Arctoa 5: 5 [Altai mountains]
	Kim, Ri, Hoang, Huneck & Grolle	1995	2056	Feddes Repert 106: 293 [DPR of Korea]
	Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
	Lin & Chen	1997	1130	Biol Bull 75: 85-86, fig 3(a-d) [Taiwan, key to species, in Taiwanese]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korea South, Korea North]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
	Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [Sichuan]
	Gambaryan	1998	1222	Chenia 5: 132 [Russia Far East]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 151 [Yunnan, China]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
	Fang, Enroth, Koponen & Piippo	1998	704	Hikobia 12 (4): 347 [China: Jiangxi Prov]
	Lin	2000	1524	Liverwort Flora Taiwan: 156-157, fig p 157(1-3) [Taiwan]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 412, fig 206(1-9) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 115, fig. 51(1-4)
	Peng, Enroth, Koponen & Piippo	2000	776	Hikobia 13: 196 [China: Hubei Prov]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 13, fig 9(a-m) [Japan, keys to species; in Japanese]
	Bai	2001	1742	Guizhou Science 19(4): 34 [China, Yunnan]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281, pl 163(5) [with key to Japan, in Japanese]

	Bai	2002	1189	Chenia 7: 3 [Yunnan, China]
	Cai	2002	1192	Chenia 7: 151 [China, Anhui Prov.]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1117-1119, fig 522(1-9) [China]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	NN	2005	1395	[in Russian] page 2 of 3
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Song & Yamada	2006	1445	J H B L 100: 445 [from Jeju (Cheju) Isl, Korea]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 14 [Checklist of liverworts of Russia: SIB, FAR EAST]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 228(1-9) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts] [annot. 103]

davurica fo. microphylla (C.Massal.) S.Hatt. & P.J.Lin 1985 976

Subgenus: Trachycolea

Basionym: Frullania microta var. microphylla C.Massal. 1897

Distribution: China (Gansu, Shaanxi, Sichuan, Yunnan, Zhejiang)

comb nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 133 [comb nov - davurica fo. microphylla (Mass.) Hatt. & Lin, comb. nov.]
	Piippo	1990	521	J Hatt Bot Lab 68: 39 [annotated catalogue of China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 414, fig 206(10-13) & 207(8-10) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 117
	Bai	2001	1742	Guizhou Science 19(4): 34-36 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 3-6 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1119, fig 522(10-13), 525(8-10) [China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 227(8-10) [key in Chinese]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 228(10-13) [key in Chinese]

debilis Steph. ex S.Hatt. 1974 2135

Subgenus: Trachycolea

Typus: India. Pondicherry sd, s coll

in hb G 14403 (ex hb SANDE LACOSTE)

Basionym:

Distribution: India (South: Pondicherry)

spec nov	Hattori	1974	545	J Hatt Bot Lab 38: 190-192, fig 89(a-l)
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [South India] - new record from India (Hattori 1974)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 167

decidua Spruce 1884 178

Subgenus: Chonanthelia Cladocarpicae

Typus: Ecuador, Andes Quitenses, Lucmas in valle Alausi sd, Spruce sn

in hb G [holotypus]
in hb G & BM [isotypus]
in hb E E00002525 [isotypus]

Basionym:

Distribution: {High mountains of} Colombia, Ecuador, Bolivia, Peru, Argentina

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 15 & 30 (No 20)
	Stephani	1910	686	Spec Hepat 4: 345
	Weberbauer	1911	792	Pflanzenwelt Peruan Anden: 145 [Peru]
	Weberbauer	1945	793	Mundo Vegetal Andes Peruanos: 238 [Peru]
	Bonner	1965	655	Index Hepat 5: 284
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 67, microfiche 47 fig 3165 [from type; "Andes Quitenses in valle Alausi leg Spruce"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 211-212, fig. 16, map 6d (:285)
	Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Gradstein, Meneses & Allain-Arbe	2003	975	J Hatt Bot Lab 93: [Bolivia]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [not in Brazil]
	Leon-Yanez, Gradstein & Wegner	2006	2162	Ecuador, catálogo: 40
	Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
	Churchill et al	2009	2593	Catálogo de las Briofítas de Bolivia: 66 [Frullania riobrancana Steph.]
	de Menendez & Rubies	2009	2273	Catalogue southern South America: 138 [Argentina]
	Gradstein	2020	5694	Frahmia 17:15 [Checklist Ecuador (= F. flammea Spruce)]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 364, fig. 37f [key -Ecuador, Colombia]

deflexa Mitt. 1862 10

Subgenus: Homotropantha Homotropantha

Typus: Fiji "Viti". 1860, B. Seemann 834

in hb G
in hb E E00108206 (1.7.1860, Seemann 834) [isotypus]

Basionym:

Distribution: Philippines, New Guinea, Vanuatu (Aneityum), New Caledonia, Samoa, Fiji (Ovalau, Taveuni, Vanua Levu, Viti Levu)

spec nov	Mitten	1862	573	Bonplandia 10 (2): 19 [Fiji]
	Mitten in Seemann	1871	637	Flora Vitiensis: 418 [Fiji]
	Stephani in Reinecke	1896	1044	Bot Jahrb 23: 315 [Samoa]
	Paris	1910	1455	Rev Bryol 37 (6): 130 [New Caledonia: Panié]
	Stephani	1911	686	Spec Hepat 4: 587-588 [as reflexa on p. 573, errata on p. 824]
	Verdoorn	1928	242	Rev Bryol NS 1: 119
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Bonner	1965	655	Index Hepat 5: 285
	Inoue	1966	1703	J Jap Bot 41 (1): 15
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Grolle & Schultze-Motel	1972	537	J Hatt Bot Lab 36: 83 [Samoa]
	Hattori	1977	479	J Hatt Bot Lab 43: 416 [New Caledonia]
	Hattori	1980	490	J Hatt Bot Lab 47: 227-228, fig 38
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 124
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-19b, microfiche 54 fig 3733 ["syn Frull Austiniana Pearson ms, Viti, leg Seemann, (Frullania pendula Austin = nomen occupatum) (ex Herbario Austin)"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-19a, microfiche 54 fig 3732 ["syn: Frull pendula Austin 1872, syn: Frull Austiniana Pearson ms, Insulae vitienses, Seemann Original"]
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 14 [Fiji; Philippines seems to be an error]
	Hattori	1986	506	J Hatt Bot Lab 60: 220
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 301 [Philippines]

degelii S.W.Arnell 1959 730

Subgenus: Diastaloba Diastaloba I

Typus: French Guiana. River Comté, Belizon, "in Mangifera leaves" 1958, Degelius in hb S-PA

Basionym:

Distribution: French Guiana

spec nov	Arnell	1959	448	Svensk Bot Tidskr 53 (4): 503-505, fig 1 [French Guiana]
	Bonner	1965	655	Index Hepat 5: 285
	Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [French Guiana]
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [French Guiana]

densiloba Steph. ex A.Evans 1906 979

Subgenus: Frullania Microphyllae

Typus: Japan. Kochi Pref. (Prov. Tosa), Mt. Konomine, "on bark" -.11.1903, T. Yoshinaga 32

in hb G G00060665 - n° SIB 138245/1 - 12998 [holotypus]
in hb TNS [isotypus]

Basionym:

Distribution: China (Hainan, Zhejiang), Taiwan, Korea (South), Japan, Ryukyu (Amami, Okinawa, Tokunoshima), Bonin Isl, India (South: Nilgiri Mts), Vietnam

spec nov	Stephani ex Evans	1906	849	Proc Wash Acad Sci 8: 157-160, pl 8(12-22)
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 16 [key to Japanese species, in Japanese]
	Stephani	1911	686	Spec Hepat 4: 549-550 [as spec nov]
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Horikawa	1929	924	Sci Rep Tohoku Imp Univ, ser 4, Biol 4: 60-63, fig 3(1-15) [Japan]
	Verdoorn	1930	293	
	Reimers	1931	229	Hedwigia 71 (1/2): 38
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 495
	Verdoorn	1934	240	Ann Bryol Suppl 4: 197
	Horikawa	1934	34	J Sci Hiroshima Univ, ser B, div 2, 2: 236 [Liukiu, Formosa]
	Horikawa in Asahina	1939	2872	Nippon Inkwasyokubutu Dukan: 853, pl 409 (1-9) [vide 943]
	Horikawa	1939		J Jap Bot 15: 397 {vide 943]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 142 [Japan, key to Japanese species]
	Hattori	1951	528	J Hatt Bot Lab 5: 62
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 122
	Hattori	1952	529	J Hatt Bot Lab 8: 29
	Horikawa	1954	2879	Jap J Ecol 4(3): 99-11 [Japan, distribution map]
	Hattori	1955	1683	J Hatt Bot Lab 15: 91 [on serpentine rocks]
	Hattori & Noguchi	1960	965	Index spec Typ herb Japon, Bryophyta: 16
	Inoue	1961	964	J Jap Bot 36(5): 187 [Formosa]
	Kamimura	1961	199	J Hatt Bot Lab 24: 69, fig 25(14-45), map 8
	Iversen	1963	531	JHBL 26: 122 /aus 948
	Pocs	1965		: 48
	Bonner	1965	655	Index Hepat 5: 286
	Chen & Wu	1965		Observ Fl Huangshan: 12
	Amakawa	1967	1931	Biol Fukuokana 7: 49
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 203 [Ryukyu Arch.]
	Inoue & Iwatsuki	1969	61	Bull Natn Sci Mus Tokyo 12 (2): 303 [Japan]
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 37 [Ryukyu: Okinawa]
	Shin	1970	150	Sci Rep Kagoshima Univ 19: 25 [Ryukyu: Amami Isl]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 120-121 [Central Japan]
	Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 333, fig 170 [719]
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Choiku-Mum	1975		Sc Tech Ministr Korea R-75-70: 18 (Ministry of Science and Technology)
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 733 [South Korea]
	Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 34 [Formosa]
	Hattori	1980	130	J Jap Bot 55 (5): 133 [Ryukyu, Japan]
	Inoue	1981	963	Mem Natn Sci Mus Tokyo 14: 64 [Japan, Mt. Fuji]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 254 [Japan]
	Fritsch	1982		:19 /aus 948
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 125
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-177ab, microfiche 59 fig 4125["Japan, Inoue 35, 1901"] - 4126 ["Japan, Tosa, Sakawa, Inoue"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 157-158 [China]
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 12
	Kuo & Chiang	1988	948	Taiwania 33: 11 [Index of Taiwan]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Piippo	1990	521	J Hatt Bot Lab 68: 39-40 [annotated catalogue of China]
	Chao & Lin	1991	458	Yushania 8: 10 [Taiwan]
	Chao & Lin	1992	460	Yushania 9: 200, fig 4(a-h) [Taiwan]
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
	Zhu et alii	1992		J Plant Resour Environ 1(3): <19-23> [aus 698]

Lin, Li, Wu & Li	1994	1230	Chenia 2: 67 [China, Hainan]
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Zhu et alii	1994		Hikobia 11(4): <543-547> [aus 698]
Nagashima, Tanaka, Takaoka & Asakawa	1997	1243	Phytochemistry 45(3): 555-558 [chemical constituents]
Hong	1997	693	Lindbergia 22: 138 [Korea]
Lin & Chen	1997	1130	Biol Bull 75: 86-87, fig 4(a-d) [Taiwan, key to species, in Taiwanese]
Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula & Jeju Isl]
Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
Hasegawa	1998	880	Bull Fac Horticult Minaanikyushu Univ 28 (A): 29 [Kyushu]
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Lin	2000	1524	Liverwort Flora Taiwan: 157, fig p 157(1-3) [Taiwan]
N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
Yuzawa	2000	1659	Natural Environmental Sci Res 13: 14-18, fig 12(a-t) [Japan, keys to species; in Japanese]
Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281, pl 162(3) [with key to Japan, in Japanese]
Srivastava & Alam	2002	1251	J Bombay Nat Hist Soc 99(2): 233, fig 1(a-r) & 2(a-w) [Nilgiri, new to India, key to South Indian species]
Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
Furuki	2006	1503	Hikobia 14: 407 [Izu Isls., Northern Izu-Mariana Arc]
Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
Song & Yamada	2006	1445	J H B L 100: 445 [from Jeju (Cheju) Isl, Korea]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]
Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 400-402, fig 145(a-k) [India (Western Ghats, keys]

dentata S.Hatt. 1974 983

Subgenus: Trachycolea Australes

Typus: Papua New Guinea. Western Highlands, Village of Mt. Hagen, 1700m 1968, van Zanten 68-825/a

in hb JE [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea)

spec nov	Hattori	1974	546	J Hatt Bot Lab 38: 231-233, fig 113
	Hattori	1982	495	J Hatt Bot Lab 51: 243
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 22: Holotype. New Guinea, W. Highlands, Mt. Hagen. 1700 m. 1968. B. 0. van Zanten 68-825/a (NICH 431990).

dentata var. secernens S.Hatt. 1988 984

Subgenus: Trachycolea Australes

Typus: Papua New Guinea. Central District 16.10.1975, Hattori 30248

in hb NICH [holotypus]
in hb TNS [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea)

Hattori	1988	516	J Hatt Bot Lab 65: 422-423, fig 4 [var nov]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 22: Holotype. Papua New Guinea, Central Distriet, Woitape. 1500 m. 16 Oet. 1975. H. Inoue 30248 (NICH 431915).

dentifera S.Hatt. & Streimann 1985 986

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. New Guinea, Morobe Prov., Herzog Mts, 15 km WSW of Lae, 760m 1985, Hattori, Streimann & Tu 10986

in hb NICH holotypus]
in hb CBG [isotypus]

Basionym:

Distribution: New Guinea (Irian Jaya), Indonesia

spec nov	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 102-103, fig 1 [New Guinea]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 22: Holotype. Papua New Guinea, Morobe Prov., Herzog Mt. 760 m. 13 Jan. 1981. H. Steimann and T Umbat 10986 (NICH 394185).

dentiloba S.Hatt. 1975 987

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Java, Bogor, Mt. Cibodas, 1400m 17.8.1972, M. Okabe et alii 5

in hb NICH

Basionym:

Distribution: Indonesia (Java)

	Hattori	0		J Jap Bot 50: 161
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Holotype. Java, Bogor, Mt. Tjibodas. 1400 m. On bark oftre'e. 17 Aug. 1972. M. Okada et al. 5 (NICH 431914).

deplanata Mitt. 1855 989

Subgenus: Trachycolea Irregulares

Typus: New Zealand. N Island, near Wellington sd, Colenso

in hb E E00002527 (sd, Colenso A623) - E00002526 (sd, Colenso sn) [isosyntypus]

Basionym:

Distribution: Australia (VIC, NSW), Tasmania, New Zealand, Auckland Isl [New Zealand], Campbell Isl [New Zealand]

spec nov	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 161, pl 104(3) [New Zealand]
	Mitten in Hooker	1860	561	Antarctic voyage, III. Fl Tasmaniae 2: 237 [Tasmania]
	Hooker	1867	1154	Handbook New Zealand Flora: 536 [New Zealand, N Island]
	Reichardt	1870	884	Reise österr Fregatte Novara, Bot Theil, Bd 1: 154 [New Zealand]
	Gottsche in Mueller	1880	1489	Frag Phyt Australia 11, suppl Hepaticae :65 [Tasmania]
	Bastow	1888	845	Papers Proceed Roy Soc Tasmania for 1887: 263, pl 28 [Tasmania]
	Stephani	1889	940	Hedwigia 28: 158 [Australia]
	Stephani	1910	686	Spec Hepat 4: 407-408
	Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 134-135 [Tasmania]
	Hodgson	1962	658	Rec Dominian Mus 4 (11): 124 [Auckland & Campbell Isl]
	Bonner	1965	655	Index Hepat 5: 286-287
	Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]
	Allison & Child	1975	690	Liverw New Zealand: 217-218, fig(a-c)
	Hattori	1978	416	Misc Bryol Lichen 8 (3): 46 [= Fr. scandens]
	Hattori	1983	499	J Hatt Bot Lab 54: 140-143 & 166-168, fig 53-54
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 179 [NSW, TAS, VIC]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-260, microfiche 54 fig 3681 ["New Zealand"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 34 & 142 [Australia: VIC, NSW; Tasmania]
	Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 158 [Hattori per comm (I): doubts occurrence in Tasmania]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Braggins	1999	725	Trop Bryol 17: 104 [New Zealand (North Isl); epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Konrat, Braggins & Harris	1999	1246	Bryologist 102(2): 240-248 [new technique to investigate the capsule wall]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 16 [initial branching appendages]
	Beckmann	2002	971	Australasian bryol Newsletter 45(May 2002): 9
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 441 [chemosystematic; sesquiterpene lactone-type]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 42 [Australia (VIC, NSW, TAS)]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 244 [field guide, Tasmania, Victoria, New South Wales]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 2nd of 6 pages [Key to Frullania of New Zealand; throughout]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia NSW VIC TAS]
	Schäfer-Verwimp & Winter	2023	6430	Frahmia 39: 12-13

deppii Gottsche 1844 997

Subgenus: Trachycolea

Typus: Mexico. near Xalapa, 1500ft sd, Deppe & Schiede 515

in hb G,
in hb S (B22762-22763) [isotypus]
in hb GLM 05996

Basionym:

Distribution: Mexico, Brazil

Gottsche in Lehmann	1844	589	Pugillus 8: 15-16
Gottsche in G., L. & N.	1845	2850	Syn Hepat: 456-457
Gottsche	1858	1511	Bot Zeitung (Berlin) 16 (Beilage): 24
Gottsche	1863	103	Separata of Mex. Leverm.: 245
Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 341-342 [Mexico]
Loefgren	1896		Bom Geogr Geol S Paulo Ser met 11: ? [51-215] <Boletim da Commissão Geographica e Geológica do Estado de São Paulo>
Stephani	1910	686	Spec Hepat 4: 395-396
Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 91 [Brazil]
Bonner	1965	655	Index Hepat 5: 287
Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 58, microfiche 50 fig 3413-3414 [from type; "Mexico, leg leibold, ex herb Rabenhorst, comm Dr. G. Winter"]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 41-42 [Mexico]
Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86 [may be the autoicous form and Fr flexicaulis the heteroicous form of one species]
Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]

depressa Mitt. 1863 180

Subgenus: Chonanthelia Pluricarinatae

Typus: Cameroon, Cameroon mountain, 8000 ft -.1.1862, G. Mann sn.

in hb G (ex hb K) [isotypus],
in hb NY [holotypus]

Basionym:

Distribution: Burundi, Cameroon, Congo, Democratic Republic of Congo, Ethiopia, Kenya, Malawi, Nigeria, Rwanda, Uganda, Sierra Leone, Tanzania, Zimbabwe, Madagascar, Comores (Grande Comore Isl), South Africa (Natal), Lesotho

spec nov	Mitten	1863	253	J Linn Soc Bot 7: 168
	Stephani	1910	686	Spec Hepat 4: 324
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 371 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 206-211, fig 50
	Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East Africa; Tanzania]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 212 [key to Madagascar] & 224
	Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 251 [Sierra Leone]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 11, microfiche 46 fig 3080 [from type; "Kamerun leg Mann Jan 1862"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 212-214, fig. 17, map 3 b(:282)
	Fischer	1993	309	Trop Bryol 8: 95-96 [key to species in eastern Zaire & Rwanda]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire, Rwanda]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Comoro Islands (Grande Comore Isl)]
	Chuah-Petiot	1995	31	Trop Bryol 10: 51 [Kenya: Mount Kenya]
	Grolle	1995	250	Bryophyt Bibl 48: 65 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 85 [Catalogue ... of Sub-Saharan Africa]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Hodgetts, Matcham & Duckett	1999	754	J Bryol 21: 142 [Lesotho, Natal]
	Porley, O'Shea, Wigginton, Matcham, Hodgetts & Stevenson	1999	711	Trop Bryol 16: 183 [Uganda]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [new to Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Burundi, Cameroun, Comores, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Nigeria, Rwanda, South Africa, Sierra Leone, Tanzania, Uganda, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Chuah-Petiot & Pocs	2003	1082	Acta Bot Hungarica 45 (1-2): 57 & 60 [Aberdare Mts., Kenya]
	Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 204, fig 264(a-f) [Kenya; key to species]
	Wigginton	2004	1172	Sript Bot Belg 30: 226, fig 147(A-S) [West Africa]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Burundi, Cameroun, Comores, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Nigeria, Rwanda, South Africa, Sierra Leone, Tanzania, Uganda, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Tusiime, Byarujali & Bates	2007	2014	Afr J Ecol, suppl 3: 82 [Uganda, 1450-1700m]

dilatata (L.) Dumort. 1835 749

Subgenus: Trachycolea Trachycolea

Typus:

in hb S (B15270)

Basionym: Jungermannia dilatata Linnaeus 1753

Distribution: Iceland, England, Ireland, Germany, France, Portugal, Spain, Andorra, Greece, Rhodes, Corfu, Balearic Isl, Slovenia, Hungary, Albania, Croatia, Bosnia-Herzegowina, Serbia-Montenegro, Macedonia, Bulgaria, Corse [France], Crete [Greece], Sardinia, Sicily, Madeira [Portugal], Azores [Portugal], Canary Isl (Fu Go GC Hi Lz Pa Te)[Spain], Cape Verde Isl, Morocco, Algeria, Tunisia, Uganda, Brazil ?, Russia (Caucasus, Siberia, Far East), Armenia, Sakhalin, China (Zhejiang), Taiwan, India, Turkey, Cyprus, Iran, Lebanon, Israel

comb nov	Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
	Nees	1838	261	Naturg Europ Leberm 3: 217-229 [literature list]
	Raddi in Nees	1841	164	Jungermannogr Etrusca [Seperate print with remarks by Nees]: 5 [as Fr. minor]
	Montagne in Barker-Webb & Berthelot	1844	910	Hist Nat Iles Canariensis 3,2,4: 54
	Nees in G., L. & N.	1845	2850	Syn Hepat: 415
	Pokorny	1852	2264	Sitzber Akad Wiss, Math-Nat Classe 9(1): 189 [Austria, Unter-Österreich]
	Pokorny	1854	2263	Verh Zool-Bot Ver Wien. Abhandl 4: 123 [Austria, Unter-Österreich]
	Notaris	1865	576	Mem Reale Accad Sci Torino, ser 2, 22 (1): 374-376, pl 4, fig 19(1-25)
	Dumortier	1874	580	Bull Soc Roy Bot Belgique 13: 27 [synonyms]
	Lamy	1875	2437	Rev Bryol 2(4): 93 [France: Haute-Vienne]
	Lindberg	1875	1582	Acta Societatis Scientiarum Fennicae 10: 476
	Lamy	1875	2436	Rev Bryol 2(4): 42 [France: Mont-Dore]
	Pabst	1877	1165	Cryptogamen-Flora Deutschlands, Lebermoose: 34, pl 6
	Crie	1877	2433	Rev Bryol 4(1): 3-4 [Note sur un cas tératologique offert par une hépatique]
	Stephani	1879	224	Bericht Bot Verein Landshut 7: 152, fig 115
	Schur	1885	1842	Enumeratio Plant Transsilvaniae: 870
	Gottsche	1886	1034	Bot Centralblatt 25 (3-4): 95-97 & 12-123 [Fossil]
	Corbiere	1889	1704	Mem Soc Nat Sci Nat Math Cherbourg 26: 343 Mémoires de la Société Nationale des Sciences Naturelles et Mathématiques de Cherbourg >
	Mitten	1891	582	Trans Linn Soc London, ser 2, 3: 202 [Japan]
	Brotherus	1892	922	Acta Soc Sci Fennicae 19 (12): 144 [Caucasus]
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134
	Stephani	1897	213	Bull Herb Boissier 5: 78 [Japan: Chichibu]
	Schiffner	1902	905	Hedwigia 41: 280
	Dalla Tore & Sarnthein	1904	2694	Die Moose (Bryophyta) von Tirol, Vorarlberg und Lichtenstein: 88-89
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134
	Cavers	1907	897	Naturalist 1907 (Jan/Feb): 11-16 & 46-49, fig 1B [water sac], 7, 8 [Yorkshire]
	Bryhn	1908	1585	Kgl Norske Vid Selks Skrift 8: 11 [Bryoph Archipel Canar, Teneriffa]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 15 [key to Japanese species, in Japanese]
	Luisier	1910	913	Broteria, ser Bot 8 (1): 34 [Madeira]
	Stephani	1910	686	Spec Hepat 4: 436
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 625-628, fig 176(a-l)
	Armitage	1926	866	Bryologist 29:50
	Bornmüller	1931	1053	Magyar Bot Lapok 30 (1-2): 21 [Kleinasien]
	Migula	1932	179	Lebermoose Torfmoose, Stuttgart: 39, pl 7(51) [Germany, key]
	Jorgensen	1934	225	Bergens Mus Skrift 16: 331-332 [Norway]
	Schiffner	1936	2561	Krit Bemerk europ Leberm, ser 21: 7-8 [Hepat europ exsicc, nr. 1013-1016]
	Ade & Koppe	1942	206	Hedwigia 81 (1/2): 34 [Spanien, Portugal, Madeira, Teneriffa]
	Mädgefrau	1943	2799	Flora NF 37: 135 [Teneriffa]
	Jelenc	1950	1707	Soc Geogr Arch Prov d'Oran 74 (fasc 228): 72 [North Africa]
	Gaume	1955	956	Rev Bryol Lichen NS 24 (1/2): 20 [France; Bretagne]
	Jovet-Ast	1956	1699	Bull Soc Sci Nat Phys Maroc 36(1): 58 [Maroc]
	Jovet-Ast	1956	955	Rev Bryol Lichen NS 25 (1/2): 136-158 [Maroc]
	Arnell	1956	43	Moss Flora of Fennoscandia: 258
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1245-1247, fig 479, 485
	Yang	1960	962	Quart J Taiwan Mus 13 (3&4): 233 [Taiwan?]
	Arnell	1961	180	Svensk Bot Tidskr 55 (2): 391 [Canary Isl]

Kitagawa	1963	626	Acta Phytotax Geobot 19: 150 [Sakhalin]
Abramov et alii	1964	432	Nov Syst Plant non Vascul: 280 [Caucasus: Bakuriani]
Virchenko & Vana	1964	2673	A list of liverworts, hornworts and peat mosses of Ukraine, p. 11 [Ukraine]
Abramov et alii	1964	433	Nov Syst Plant non Vascul: 285 [Caucasus: reservatum publicum Teberdense]
Zerov	1964	2658	Flora of Hepatics, Sphagnum and Mosses of the Ukraine, p. 282-284, fig 198 [Ukraine]
Bonner	1965	655	Index Hepat 5: 288
Zoller	1966	1116	Rev Bryol Lichen 34:329 [Levante]
Jovet-Ast & Bischler	1966	1114	Rev Bryol Lichen 34 (1-2): 106 [Israel]
Bertsch	1966	617	Moosflora von SW-Deutschland:185-187 [key to SW-Germany]
Jelenc	1967	1701	Rev Bryol Lichenol NS 35(1-4): 192 [Maroc]
Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 316 [key to europa & macaronesia]
Frey	1974	1110	Bryologist 77 (1): 52 [Iran]
Sjögren	1975	733	Svensk Bot Tidskr 69: 257 [epiphyllous, Madeira]
Jovet-Ast & Bischler	1976	186	Rev Bryol Lichen 42 (4): 976 [Iberian Peninsula]
Koppe	1976	1056	Herzogia 4: 115 [Zypern]
Grolle	1976	183	Feddes Repert 87 (3/4): 193 [Type, lectoisotype]
Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 191-194, fig 47(A-K)
Szweykowski & Kozlicka	1977	1096	Atlas geograph distr spore-plants Poland, ser IV, part IX: 27-33, map [H. 242; altitude range & map of Poland, world map]
Sjögren	1978	1696	Mem Soc Brot 26: 125 [Azores]
Düll & Koppe	1978	151	Dechenia 131: 67 [red list of Nordrhein-Westfalen]
Bischler, Jovet-Ast & Baudoin	1980	149	Crypt Bryol Lichen 1 (3): 255 [Albanien]
Hu & Wang	1981		J East China Normal Univ (Nat Sci) 1981 (1): 85-104[aus 698]
Faure, Dambuyant, Chabeau, Souteyrand & Thivolet	1981	1286	Contact Derm 7: 320-325 [Contact Dermatitis]
Guerra	1982	15	Crypt Bryol Lichen 3 (1): 15-19 [plant sociology, on Abies pinsapo, Spain]
Eggers	1982	22	Crypt Bryol Lichen 3 (4): 288 [Macaronesia]
Hattori	1982	131	J Jap Bot 57 (9): 258 [key to dilatata, subdilatat, dilatata ssp. asiatica]
Fuertes Lasala & Alvarez Otzanco	1982	16	Crypt Bryol Lichen 3 (2): 148 [Navarra, Spain]
Grolle	1983	144	J Bryol 12: 421 [checklist Europe]
Frahm & Frey	1983	178	Moosflora, UTB 1250, Stuttgart: 146-147, fig 35(1-3) [key to Germany)
Philippi	1983	36	andrias 2: 23-52 [epiphytic, Gardasee]
Düll	1983	620	Bryol Beitr 2: 67 [Europe & Macaronesia]
Indurain	1984	2267	Pub. Biol. Univ. Navarra. S. Bot. 5: 16 [Spain, Navarra]
Goncalo	1984	1288	Contact Derm 11(1): 54-55 [Contact Dermatitis]
Reinosa & Alvarez	1984	1325	Acta Cient Compostelana 21: 275 [Spain]
Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
Bisang	1985	102	Bot Helvetica 95 (2): 247-278, map [Switzerland]
Hattori	1985	505	J Hatt Bot Lab 59: 163 [not in China]
Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 85abc, microfiche 51 fig 3456 ["St Osner, Gasilien 13"]- 3457 ["Waldkirchen"] - 3458
Benezra, Stampf, Barbier & Ducombs	1985	1287	Contact Derm 13: 110-114 [Contact Dermatitis]
Indurain	1986	2270	Pub. Biol. Univ. Navarra. S. Bot. 6: 5 [Spain, Navarra]
Schwab, Schäfer-Verwimp & alii	1986	101	Bryol Beitr 6: 7 [Gomera]
Schwab, Schäfer-Verwimp & alii	1986	101	Bryol Beitr 6: 7 [Gomera]
Soccoro Abreu et alii	1987	817	Act VI Simp Nac Bot Cript: 616
Llamas & Guerra	1987	814	Act VI Simp Nac Bot Cript: 522 [Spain: Prov de Leon]
Dunk, Lotto, Lübenau & Philippi	1987	999	Archive for bryology 1: http://www.bryologie.uni-bonn.de/Archive/Guide.pdf
Soria, Mazimpaka, Riestra & Ron	1987	818	Act VI Simp Nac Bot Cript: 623 [Spain]
Bisang	1987	98	Herzogia 7: 407-458 [Switzerland, all Frullania species, ecology]
Backes, Schmitz & Strank	1987	2750	Decheniana (Bonn) 140: 28 [Germany, Rurtal]
Casas, Fuertes & Varo	1987	812	Act VI Simp Nac Bot Cript:477 [Spain: Sierra de Ancares]
Puche, Herrero-Borgonon & Casan	1987	816	Act VI Simp Nac Bot Cript: 578 [Spain]
Alonso	1987	815	Act VI Simp Nac Bot Cript: 573 [Spain: Cordoba]
Malme	1988	625	Sommerfeltia 7: 16, maps (fig 2 Lanzarote, fig 5 Fuerteventura)
Kuo & Chiang	1988	948	Taiwania 33: 11 [Index of Taiwan]

Cetin	1988	1050	Lindbergia 14: 14 [Turkey]
Sim-Sim	1989	6	Portug Acta Biol (B) 15: 363 [Portugal]
Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 258 [key to Europe & Macaronesia]
Piippo	1990	521	J Hatt Bot Lab 68: 40 [annotated catalogue of China]
Smith	1990	177	Liverwort Britain & Ireland: 251[key], 257, fig114
Carballal, Fraga, Garcia & Reinoso	1991	1029	Col Mus Hep Liq Lopez S. Hult: 31 [Spain: Galegos]
Frey & Kürschner	1991	1033	Bryophyt Bibl 39: 30 [Cyprus, Turkey, Iran, Lebanon, Israel]
Sim-Sim & Sergio	1991	1194	IX Simposio Nacional Bot Cript, Salamanca: 252 [Madeira]
Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
Berg & Wiehle	1992	969	http://home.t-online.de/home/cberg/bryorl.htm [printed 09.05.2003 13:31] page 14 of 39 pages [Germany: Mecklemburg-Vorpommern]
Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): [Canary Isl: Fu, Go, GC, Hi, Lz, Pa, Ten]
Lütt, Eckstein & Schulz	1994	1006	Naturschutz Landschaftspflege Hamburg Schriftenreihe Umweltbehörde 42: 84 & 97
Konstantinova & Vasiljev	1994	650	Arctoa 3: 130 [Siberia, Sayan Mt.]
Hürlimann	1995	27	Meylania 7: 17 [Fr. dilatata without "knotige Eckverdickung"]
Düll	1995	304	Bryol Beitr 10: 162 [Corfu]
Manakyan	1995	652	Arctoa 5: 19 [Armenia]
Düll	1995	303	Bryol Beitr 10: 11-12 [Greece]
Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 116 [key to european species]
Düll	1995	305	Bryol Beitr 10: 221 [Rhodes]
Dia & Aiello	1996	811	Naturalista Sicil 20 (1-2): 40 [Sicili]
Schwarz	1996	2261	Mitt Mikro AG Stuttgart 1: 10 [Germany, Stuttgart]
Aleffi & Taruschio	1996	750	Arch Geobot 2 (1): 51-52 [Italy]
Frahm, Lindlar, Sollman & Fischer	1996	301	Trop Bryol 12: 129 [Cape Verde Isl]
Van Landuyt & Hoffmann	1996	1332	Muscillanea 16: 44 [with distr. map of Netherlands]
Long & Ratcliffe	1996	272	J Bryol 19: 97
Schmidt	1996	264	Bryol Mitt 1: 6-7 [Germany: Westfalen & Hessen]
Sim-Sim	1997	688	Portug Acta Biol (B) 17: 48, fig 2 [Madeira]
Schumacker & Soldan	1997	1348	Ibex 4: 36 [Italy, Gran Paradiso NP]
Frahm	1998	1250	Decheniana 151: 105-106 [Bonn, Germany]
Puche, Gimeno & Segarra	1998	990	Orsis 13: 38 [Spain, Valencia]
Gökler	1998	1270	Turk J Bot 22: 411 [Turkey]
Casas	1998	768	Orsis 13: 20 [checklist Spain]
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
Cetin	1999	1269	Turk J Bot 23: 116 [Turkey]
Everest & Ellis	1999	766	Crypt Bryol 20 (1): 47 [southern Turkey]
Ros, Cano & Guerra	1999	759	J Bryol 21: 235 [Algeria, Morocco, Tunisia; checklist of Northern Africa]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Sim-Sim	1999	720	Crypt Bryol 20 (2): 131-136, fig 26(a-r), 27 [Portugal, Madeira]
Pavletic, Martincic & Duell	1999	1045	Contrib Bryofl Yugoslavia Bulgaria: 9 [Slovenia, Croatia, Bosnia-Herzegowina, Serbia-Montenegro, Macedonia]
Paton	1999	828	Liverwort flora British Isles: 473-477, fig 236
Mazimpaka, Lara & Garilleti	1999	1278	Crypt Bryol 20(4): 269
Cetin	1999	1271	Turk J Bot 23: 280 [Turkey]
Döbbeler	1999	1236	Sendtnera 6: 93-95 [bryophilous fungus]
Johannsson	1999	1211	Fjölrit Náttúrufraedistofnunar 38: 101, fig 65, map 66 [Iceland]
Duell	1999	1048	Contrib Bryofl Yugoslavia Bulgaria: 100 [Slovenia, Croatia, Serbia-Montenegro]
Ros, Cano & Guerra	1999	1013	http://www.um.es/dp-biologia-vegetal/lab-briologia/Check-list.PDF:40 [checklist of Northern Africa]
Ganeva & Duell	1999	1046	Contrib Bryofl Yugoslavia Bulgaria: 118 [Bulgaria]
Duell	1999	1047	Contrib Bryofl Yugoslavia Bulgaria: 183 [Bulgaria]
Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 25-26, fig 12(h-m) [Rio de Janeiro, Brazil] ?
Infante	2000	1035	Guineana 6: 213-214 [map, País Vasco] & 321-324
Gimeno & Deltero	2000	1249	Can J Bot 78: 98-104 [Sulphur dioxid effect]
NN	2000	1928	Census list of Irish liverworts [Ireland]
Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia]

Kürschner, Papp & Akhani	2000	1216	Nova Hedwigia 71 (3-4): 512 [Iran]
Bapna & Kachroo	2000	712	Hepaticology in India II: 167-168
Sabovljevic	2000	773	Lindbergia 25 (1-2): 132 [Yugoslavia]
Julian, Bowers & Paton	2000	1309	Contact Dermatitis 43(2): 119-121 [Frullania dermatitis in UK]
Lütt, Eckstein & Schulz	2000	998	http://www.biologie.uni-hamburg.de/ialb/herbar/hh_rl_br.htm [Hamburg]
Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
Frahm	2001	1353	Limprichtia 19: 24, map [Vosges]
Kaiser	2001	774	Natur und Mensch, Jubiläumsausgabe 200 Jahre NHG: 227 [Germany, Bavaria]
Dierssen	2001	779	Bryophyt Bibl 56: 216 [ecology in European bryophytes]
Izquierdo Zamora	2001	2885	Lista especies silvestres Canarias, banco datos bidiversidad: 89 [Canarias: H P G T C F L]
Olivan, Fuertes & Acon	2001	780	Crypt Bryol 22 (2): 134 [Spain: Catabria]
Pericin & Hürlimann	2001	1088	Bauhinia 15: 93-94 [Kroatien; bis 100m tief in Doline]
Grims	2001	1136	Moosherbar in hb LINZ [Internet]
Meinunger & Schröder	2001	1693	Naturschutzreport 18: 302 [Germany, Thuringia - red list: 3 = vulnerable]
Sotiaux & Schumacker	2002	1055	Lejeunia, ns 170: [Andorra]
Otte	2002	1354	Peckiana 2: 142, map [Germany: Niederlausitz]
Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 16 [Distribution in Europe and Macaronesia]
Guerra et al	2002	1384	Anales Biologia: 24: 106 [Spain]
Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 606-608, fig 244, pl 231(1-12) [Northern Europe]
Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 81 & 93 [Brazil] [= Fr glomerata]
Becker	2002	987	http://www.ijon.de/moose/geni/frullania.html
Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
Geisller, Bagutti, Bisang, Müller, Schnyder, Schubiger-Bossard & Urmi	2002	1003	Herzogia 15: 199-200, fig 8 [distribution & map of Switzerland and Lichtenstein]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Cape Verde] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Özenoglu & Gökler	2002	1272	Turk J Bot 26: 300 [Turkey)
Söderström, Hassel & Weibull	2002	2672	Distribution maps - Northwestern Europe, vol 1: 19 [map]
Sonnenburg, Gerken, Wagner & Ebersbach	2003	2749	LÖBF-Mitteilungen 4/03: 38 [Hutewaldprojekt im Naturpark Solling-Vogler]
Ahonen, Munoa & Piippo	2003	1098	Bryologist 106 (2): 303-307 [molecular data]
Johannsson	2003	1008	Fjölrit Náttúrufraedistofnunar 44, http://www.floraisland.is/mosalisti.htm [Iceland]
Draper et al.	2003	1318	Bol Soc Esp Briol 22/23: 34 [Spain]
NN	2003	1264	http://www.mapmate.co.uk/checklist/frullaniaceae.htm [checklist of UK]
Ganeva & Natcheva	2003	1299	Crypt Bryol 24 (3): 231 [Bulgaria]
Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 164-165 [annotated checklist of Portugal]
Lara	2003	1315	Bol Soc Esp Briol 22/23: 22 [Spain]
Uribe & Gradstein	2003	1071	Crypt Bryol 24 (3): 195 [as new lectotype of gen Frullania]
Ducombs et alii	2003	1308	Contact Dermatitis 48(3): 158-161 [Contact dermatitis]
Draper et al.	2004	1313	Bol Soc Esp Briol 24: 13 [Spain]
Puche & Gimeno.	2004	1314	Bol Soc Esp Briol 24: 233 [Spain]
Tautz & Weddeling	2004	2748	Limprichtia 24: 209-236 [(Süderbergland, Rhein-Sieg-Kreis)
Lo Giudice & Cristaudo	2004	2271	Flora Med 14: 363 [Sicily]
Gonzalez-Mancebo, Romaguera, Losada-Lima & Suarez	2004	1297	Acta Oecologica 25: 159-167 [Tenerife; as epiphyt on Laurus azorica]
Bischler	2004	1103	Bryophyt Bibl 61: 119 [Mediterranean], fig 29 [map]
Forster	2004	1177	http://www.hainaultforest.co.uk/3Mosseslist1.htm [15.12.2004]
Döbbeler	2004	1242	Mycological Progress 3(3): 247-256 [bryophilous fungi]
Döbbeler	2004	1253	Feddes Rep 115(1-2): 5-14 [bryophilous fungus]
Erzberger &Papp	2004	1326	Studia Bot Hung 35: 102 [Hungary]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Cape Verde] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Röller	2004	1334	Pollichia-Kurier 20 (2): 14 [Germany, Westwall-Bunker]
Yano	2004	1450	Acta Amazonica 34(4): 22-23 [Brazil]
Grolle	2004	1289	J Bryol 26: 61-61 [Lectotypification of Frullania]
Cano et alii	2004	1424	Anales Biologia 26: 144 [Spain, Murcia Province}
Hebrard	2005	1365	Crypt Bryol 26(2): 201 [France; Alpes-Maritimes]

	Peralta & Yano	2005	1488	Acta bot bras 19(4): 971 [Brazil, Sao Paulo]
	NN	2005	1395	[in Russian] page 2 of 3
	Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 108 [Madeira, annotated catalogue]
- syn nov	Szweykowski	2006	2547	Checklist of Polish Liverworts and Hornworts: 27-28 [Poland]
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries]
	Frahm, Stapper & Franzen-Reuter	2007	2406	KRdL Schriftenreihe Band 40: ohne Nr, [Umweltgütezeiger E: 4 = mäßig empfindliche Art], pl. 19.
	Sabovljevic & Frahm	2007	1459	Arch Bryol 21: 4 [near Cologne]
	Singh & Singh	2007	1475	Crypt Bryol 28 (3): 253-265 [new to India]
	Heylen & Hermy	2008	1688	Bryologist 111(1): 84-97 [age structure & ecological characteristics]
	NN	2008	1929	Synoptic list of the Bryophytes of Ireland [Ireland]
	Yano	2008	1684	Boletim Instituto Botanica 19: 30 [Brazil; catalog]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 14 [Checklist of liverworts of Russia: EUR, CAUC, SIB, FAR EAST]
	Casus, Brugués, Cros, Sérgio, Infante	2009	1983	Handbook Liverw Iberien penins & Bal Isl., 143, fig52(3-5) [Iberian Peninsula, Mallora, Menorca]
	Lima, Dirkse, Núñez & González Mancebo	2009	1262	Lista especies silvestres Canarias,108 [Canarias: H P G T C F L]
	Stern	2010	2703	Atlas of the Bryophytes of South Hampshire: 8 [map]
	Stefanut	2010	2691	Transylv. Rev. Syst. Ecol. Res. 9: 59 [Romania]
	Papp, Erzberger, Ódor, Hock, Szövényi, Szurdoki & Tóth	2010	2852	Studia bot. Hung. 41: 35 [checklist Hungary, status LC Least concern]
	Frahm	2010	2237	Mosses Liverw Mediterranean: 45, 1 foto
	Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 71 [ecology]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]

dilatata ssp. asiatica S.Hatt. 1982 1012

Subgenus: Trachycolea Trachycolea

Typus: India. West Bengal, near Sandakphu, Darjeeling area, 11600-11900ft 26.4.1965, Z. Iwatsuki & Sharp IES B-745/a in hb NICH

Basionym:

Distribution: Pakistan, India (North: Kashmir, West Bengal (Darjeeling))

ssp nov	Hattori	1982	131	J Jap Bot 57 (9): 258 [sspec nov pro Indian specimens; key to dilatata, subdilatata & dilatata ssp asiatica]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 168
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Holotype. India, West Bengal, Darjeeling. 11600-11900 ft. 26 Apr. 1965. Z. Iwatsuki et al. B-745/a (NICH 262371).

dilatata var. anomala Corbiere 1889 1002

Subgenus: Trachycolea Trachycolea

Typus: France. Cherbourg, Omonville-la-Petite; falaises de Saint-Jean-le-Thomas

lectotypus ?

Basionym:

Distribution: Germany, Italy, Switzerland, France, Netherland, Croatia, Madeira [Portugal], Canary Isl (GC)[Spain], Cape Verde Isl

var nov	Corbiere	1889	1704	Mem Soc Nat Sci Nat Math Cherbourg 26: 343-344 Mémoires de la Société Nationale des Sciences Naturelles et Mathématiques de Cherbourg >
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 627-628 [Italien, Frankreich]
	Armitage	1926	866	Bryologist 29:50
	Broeksmith	1928	1040	Ann Bryol 1: 14 [Canary Isl, TE]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 486 [Canary Isl, GC]
	Costa & Persson	1941		Broteria. Série trimestral: Ciências Naturais 10: >29-39< (Madeira]
	Jovet-Ast	1946	886	Mem Soc Biogeogr 8: 363-365 [Cape Verde Isl]
	Albrecht-Rohner	1949	2715	Rev Bryol Lichen NS 18(3-4): 147-54, fig 1(a-d), 2(a-d), 3 [distribution in Europe]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1245-1247
	Bonner	1965	655	Index Hepat 5: 389
	Eggers	1982	22	Crypt Bryol Lichen 3 (4): 288 [Macaronesia]
	Frahm & Frey	1983	178	Moosflora, UTB 1250, Stuttgart: 147 [key to Germany)
	Puche, Herrero-Borgonon & Casan	1987	816	Act VI Simp Nac Bot Cript: 578 [Spain]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 258 [key to Europe & Macaronesia]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 116 [key to european species]
	Duell	1999	1048	Contrib Bryofl Yugoslavia Bulgaria: 100 [Croatia]

dilatata fo. fuscovirens Jörgensen 1934 1008

Subgenus: Trachycolea Trachycolea

Typus: Norway.

Basionym:

Distribution: Norway

	Jorgensen	1934	225	Bergens Mus Skrift 16: 332
	Bonner	1965	655	Index Hepat 5: 289

dilatata var. elongata Losada-Lima & Vanden Berghen 1985 2013

Subgenus: Trachycolea Trachycolea

Typus: Tenerife, Bosque Madre del Agua, 800m 12.12.1983, A. Losada

in hb BR [holotypus]
in hb TFC Bry 2006 [isotypus]

Basionym:

Distribution: Portugal, Canary Isl (Te)[Spain]

var nov	Losada Lima & Vanden Berghen	1985	709	Vieraea 15 (1-2): 3-6, fig 1(a-h) & 2(a-g)
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 264 [syn sub Fr. ericoides]
	Düll	1995	303	Bryol Beitr 10: 13 [syn sub Fr. dilatata]
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 135 [valid var.]

dilatata var. subtilissima Nees 1838 1010

Subgenus: Trachycolea Trachycolea

Typus: Germany. Bavaria, between Mittenwald and Partenkirch sd, Prof. Braun

Basionym:

Distribution: Germany

	Nees	1838	261	Naturg Europ Leberm 3: 219
	Nees in G., L. & N.	1845	2850	Syn Hepat: 415
	Bonner	1965	655	Index Hepat 5: 289

dioica (S.Hatt. & Thaithong) Mamontov & J.J.Atwood 2020 2504

Subgenus:

Basionym: Frullania inflata var. dioica S.Hatt. & Thaithong 1978

Distribution: India [North: Uttaranchal (Dehra Dun)]

comb nov	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150, p. 220-222, fig 6(a-h), 7(a-f) [Basionym: Frullania inflata var. dioica S. Hatt. & Thaithong] India, Dehra Dun, around Sahastradhara spring and caves,

diptera (Lehm.) Drège 1843 1013

Subgenus: Trachycolea

Typus: South Africa. "in Promont. Bonae Spei in sylvis Krakakammae" sd, Ecklon

in hb STR [holotypus]
in hb G [isotypus]

Basionym: Jungermannia diptera Lehm. & Lindenb. 1834

Distribution: Angola, Annobon, Democratic Republic of Congo, Ghana, Kenya, Malawi, Nigeria, Sao Tome, Tanzania, Uganda, Benin, Madagascar, Mauritius, Reunion, South Africa

Drège	1843	255	Flora 26 (besond. Beilage): 134 & 186
Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 420-421
Gottsche	1882	254	Abh Naturwiss Ver Bremen 7 (3): 363 [Madagascar]
Stephani	1886	944	Bol Soc Broteriana 4: 180 [152] [South Africa]
Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Madagascar]
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 324
Stephani	1901	883	Cat Afr Plants Welwitsch 2 (2): 316 [Angola]
Stephani	1910	686	Spec Hepat 4: 374-375
Sim	1926	252	Trans Roy Soc S Africa 15: 42-43, figs [South Africa]
Arnell	1956	847	Svensk Bot Tidskr 50 (4): 532 [Annobon]
Bonner	1965	655	Index Hepat 5: 290
Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 194- 198, fig 48(A-N)
Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 369 [map of Africa]
Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East Africa; Tanzania]
Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 212 [key to Madagascar] & 224
Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 251 [Ghana]
Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 14, microfiche 50 fig 3365 [from type; "Ecklon leg, Cap"]
Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Reunion Isl]
Grolle	1995	250	Bryophyt Bibl 48: 65 [afr3]
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 86 [Catalogue ... of Sub-Saharan Africa]
Pérez & Sánchez	1996	297	Trop Bryol 12: 47 [Annobón]
Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
Pocs & Lye	1999	724	Trop Bryol 17: 30 [Uganda]
Porley, O'Shea, Wigginton, Matcham, Hodgetts & Stevenson	1999	711	Trop Bryol 16: 183 [Uganda]
Dilg & Frahm	2000	1239	Trop Bryol 19: 2 [epiphytisch, Benin]
Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: Annobon, São Tomé]
Chuah-Petiot	2001	1074	Trop Bryol 20: 37 [Shimba Hills, Kenya]
O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [new to Malawi]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Angola, Annobon, Benin, Ghana, Kenya, Mauritius, Madagascar, Malawi, Nigeria, Reunion, South Africa, Sao Tome, Tanzania, Togo, Uganda, DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Angola, Annobon, Benin, Ghana, Kenya, Mauritius, Madagascar, Malawi, Nigeria, Reunion, South Africa, Sao Tome, Tanzania, Togo, Uganda, DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Wigginton	2004	1172	Sript Bot Belg 30: 229, fig 151(A-P) [West Africa]
Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]

dispar Nees 1845 738

Subgenus: Incertae sedis

Typus: Brazil sd, Ilgner
in hb FLOTOV

Basionym:

Distribution: Brazil

Nees in G., L. & N.	1845	2850	Syn Hepat: 429-430
Stephani	1910	686	Spec Hepat 4: 396
Bonner	1965	655	Index Hepat 5: 290
Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [Brazil]
Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

diversitexta Steph. 1897 732

Subgenus: Trachycolea Diversitextae

Typus: Japan. Shikoku, Tosa sd, Makino 20 ?

in hb G G00067128 - n° SIB 125450/1 (ex hb JÄGGI 20 ?, hb STEPHANI 20 ?)

Basionym:

Distribution: Russia (Far East), China (Inner Mongolia), Taiwan, Japan, Korea (South)

spec nov	Stephani	1897	213	Bull Herb Boissier 5: 79 & 89 [spec nov; Japan]
	Inoue	1898	945	Bot Mag Tokyo 12: 74 [Japan]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 32, 32' [key to Japanese species, in Japanese]
	Stephani	1911	686	Spec Hepat 4: 681-682
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 142-143, fig 88(a-k) [Japan, key to Japanese species]
	Oti / Ochi	1950		Shizen to Simmon / Jinmon 5:70 [vide 873]
	Hattori	1951	528	J Hatt Bot Lab 5: 64
	Hattori	1952	529	J Hatt Bot Lab 8: 29
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 123, fig 29(a-i])
	Hattori	1952	1508	J Jap Bot 27(10): 317 [Japan]
	Kamimura	1961	199	J Hatt Bot Lab 24: 80-81, fig 27(1-17), map 11
	Hattori, Hong & Inoue	1962	876	J Hatt Bot Lab 25: 284 [Korea]
	Bonner	1965	655	Index Hepat 5: 291
	Hong	1966	1107	Bryologist 69 (1): 411 [South Korea]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 121-122 [Central Japan]
	Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 333, fig 171 [720]
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 733 [South Korea]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 254 [Japan]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 154 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-232, microfiche 53 fig 3650 ["Japan, Tosa, Ma Kino 20"] - 3651
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 40 [annotated catalogue of China]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Bai	1993	1225	Chenia 1: 94 [China, Inner Mongolia]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula]
	Gambaryan	1998	1222	Chenia 5: 132 [Russia Far East]
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 10, fig 9(a-q) [Japan, keys to species; in Japanese]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281, pl 162(3) [with key to Japan, in Japanese]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Song & Yamada	2006	1445	J H B L 100: 445 [from Jeju (Cheju) Isl, Korea]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 14 [Checklist of liverworts of Russia: FAR EAST]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]
	Atwood, Vilnet, Mamontov	2021	5756	Cryptogamie, Bryologie 42(3):1-15 [taxonomic position and lectotypification]

donnellii Austin 1879 91

Subgenus: Meteoriopsis Obtusilobae

Typus: E Florida, -.3.1877, J. Donnell Smith

Basionym:

Distribution: USA (NC GA FL AL MS)

spec nov	Austin	1879	667	Bull Torrey Bot Club 6 [No 52]: 301
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 32-33, pl 14(17-29)
	Stephani	1911	686	Spec Hepat 4: 669-670 [as No 100 syn sub Antarcticae]
	Stephani	1911	686	Spec Hepat 4: 569-570 [as No 188 syn sub Europa. America sept.]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 757-758, fig Frd(1-14)
	Bonner	1965	655	Index Hepat 5: 291
	Schuster	1985	441	Phytologia 57 (5): 370 [belongs to sgen Frullania]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-190, microfiche 60 fig 4144 ["Am sept, Florida (Austin legit)"]
	Schuster	1992	603	Hepat N America 5: 84-91, fig 786-787

dorsimamillosa Mamontov, Hentschel, Sofronova & Potemkin 2015 1965

Subgenus:

Typus: China, NE Sichuan, Minshan Range, Songpan County, valley of R. Fujiang 3 km E of Huanglong hotel 15.09.1991, T. Koponen 45098, c.per

holotype: H; isotypes JE, LE

Basionym:

Distribution:

spec nov	Mamentov et alii	2015	4100	Phytotaxa 227 (1): 1-12

dorsoblastos S.Hatt. 1982 975

Subgenus: Incertae sedis

Typus: China. Yunnan: Lichiang Pref., Yunnan, Yü Lung Mt., 2880m 2.4.1981, Y.-L. Li 81-275

in hb NICH [holotypus]
in hb KUN, hb TNS [isotypus]

Basionym:

Distribution:

spec nov	Hattori	1982	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 93-94, fig 1
- comb nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 132-133
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 12
	Piippo	1990	521	J Hatt Bot Lab 68: 40 [annotated catalogue of China]
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Holotype. China, Yunnan, Lichiang Pref., Yu Lung Mt. 2880 m. On rocks. 2 June 1981. X J. Li 81-275 (NICH 382632).

dulimensis Uribe 2006 2363

Subgenus: Meteoriopsis Meteoriopsis

Typus: Colombia. Tolima prov, Tolima volcano, 3200m 27.3.1986, H. Esquivel 3422

in hb TOLI [holotypus]
in hb COL [isotypus]

Basionym:

Distribution: Colombia

sp nov	Uribe	2006	1471	Crypt Bryol 27(3): 309-312, fig 1(a-o) [Colombia]
	Uribe	2008	1513	Caldasia 30(1): 72-74, fig. 6 & 7 [Monography of subgenus Meteoriopsis] [belongs to Meteoriopsis]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 360-361, fig 6(a-o) [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 318 [Jamaica]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [new to Colombia, Endemic]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 365, fig. 37h [key -Colombia]

durifolia Steph. 1894 731

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea. PNG. Northern Mt. Suckling [et Mt. Yule] 1891, W. MacGregor sn
in hb G G00067129 - n° SIB 125449/1 - 14234 (F. Müller 1892) [= lectotypus by Hattori 1973: 141]
Basionym:

Distribution: Papua New Guinea

spec nov	Stephani	1894	228	Hedwigia 33: 162
	Stephani	1911	686	Spec Hepat 4: 641 [as densifolia on p. 619, errata on p. 824]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 104, fig 172-173
	Verdoorn	1930	549	Nova Guinea 14 (4): 543
	Bonner	1965	655	Index Hepat 5: 292-293 [New Guinea & Sri Lanka]
	Hattori	1973	542	J Hatt Bot Lab 37: 140-142, fig 80-81
	Hattori	1973	542	J Hatt Bot Lab 37: 149 [New Guinea]
	Hattori	1974	546	J Hatt Bot Lab 38: 233
	Hattori	1982	495	J Hatt Bot Lab 51: 216 [not in Sri Lanka]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-52, microfiche 49 fig 3292 [from type; "N Guinea Mt Suckling .... Mc Gregor 1891"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 28

dusenii Steph. 1905 185

Subgenus: Chonanthelia Pluricarinatae

Typus: Brazil, Retirodo Ramos, 2200 m "in ramis Pyri mali" / Brasilia orientalis (Serra Itatiaja) sd, Dusén in hb G [holotypus]

Basionym:

Distribution: Costa Rica, Panama, Dominican Rep., {High mountains of} Colombia, Ecuador, Peru, Brazil

	Dauphin	0		[erroneously cited for Dominica, see Schäfer-Verwimp 2010]
spec nov	Stephani in Dusen	1905	710	Arch Mus Nac Rio de Janeiro 13: 115 [Brasil]
	Stephani	1910	686	Spec Hepat 4: 344-345 [as spec nov]
	Bonner	1965	655	Index Hepat 5: 293
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 84-88, pl 13, map 12, [Brasil, Rio Grande do Sul]
	Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 68, microfiche 47 fig 3166 - 3167 ["Brasilia Serra do Katiaja Dusén 552"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 214-216, fig. 18, map 4 d(:283) [erroneously cited for Dominica, see Schäfer-Verwimp 2010]
	Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
	Porto & Bezerra	1996	751	Acta bot bras 10 (1): 95 [Brasil]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Kürschner & Parolly	1998	681	Nova Hedwigia 66 (1-2): 80 [Peru]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 1600-3400m: Colombia, Ecuador]
	Yano & de Mello	1999	919	Iheringia, ser Bot 52: 73-74 [Brasil]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86, fig 24(i-k) [Brazil]
	Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 393, 416, tab 2 [Podocarpus NP, Ecuador, epiphytic]
	Parolly, Kürschner, Schäfer-Verwimp & Gradstein	2004	1170	Crypt Bryol 25 (3): 275 [Ecuador]
	Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
	Dauphin	2005	1360	Tropical Bryology 26: [Costa Rica] [erroneously cited for Dominica, see Schäfer-Verwimp 2010]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 94 [Ecuador; Podocarpus NP]
	Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
	Peralta & Yano	2005	1488	Acta bot bras 19(4): 971 [Brazil, Sao Paulo]
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 74, [syn sub Fr alstonii var pfleidereri]
	Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
	Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 384 [Dominican Republic, Hispaniola]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 49 [Brazil]
	Schäfer-Verwimp	2010	2460	Crypt Bryol 31(4): 347 [erroneously cited for Dominica, West Indies]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 361 [Colombia; synopsis of Frullaniacae & keys]
	Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 21 [Ecuador]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):213 [Panama]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Lima	2019	5121	Frullania no Brasil [Thesis]: 53-55, fig. 3 [distribution]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 365, fig 37i,j [key -Colombia, Ecuador]

duthieana var. szechuanensis S.Hatt. & C.Gao 1985 88

Subgenus: Trachycolea

Typus: China. Szechuan, Prov Mt Omei, Qianfo Temple 2.8.1980, Gao Chien 18815

in hb NICH [holotypus]

Basionym:

Distribution: China (Sichuan, Xizang, Yunnan)

var nov	Hattori & Gao	1985	135	J Jap Bot 60 (1): 2-4, fig 2
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 133 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 40 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [China]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 117, fig. 51(5-8)
	Bai	2001	1742	Guizhou Science 19(4): 36 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 6 [Yunnan, China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Holotype. China, Szechuan, Mt. Omei. On tree trunk. 2 Aug. 1980. Gao C 18815 (NICH 431919).

duthieana var. laevis S.Hatt. 1975 11

Subgenus: Trachycolea

Typus: Nepal. East Nepal, below Lamo-Pokhari (pond), 2700-2850m 9.6.1972, Z. Iwatsuki 595

in hb NICH [holotypus]
in hb TI, hb TNS [isotypus]

Basionym:

Distribution: India, Sikkim, Bhutan, Nepal

	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 233-234 [Nepal]
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 12
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Eastern Himalaya] - new variety from Eastern Himalayas (Hattori 1975)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 169
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]

duthieana Steph. 1910 197

Subgenus: Trachycolea

Typus: N W India. Tihri-Garhwal, Kedarkandta, 12000ft -.5.1879, J. F. Duthie 52

in hb G G00067126 - n° SIB 125573/1 - 14406 (ex hb E. LEVIER - J.F. DUTHIE Musci Himalayani 52) [holotypus]
as 'duthiana' in honor of the collector, J.F. Duthie (1845–1922) and corrected in accordance with Arts. 60.8 & 60.9 (Shenzhen Code)

Basionym:

Distribution: ?Surinam, Himalayas (W), India (North: West Bengal (Darjeeling), Assam, Meghalaya), Bhutan, Nepal, Sikkim, Indo-China

spec nov	Stephani	1910	686	Spec Hepat 4: 351 [as Chonanthelia]
	Kashyap	1932	226	Liverworts of the western Himalayas, Part 2: 18
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: WH]
	Bonner	1965	655	Index Hepat 5: 293
	Hattori	1973	541	J Hatt Bot Lab 37: 92-94, fig 49(a-k) [from type]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 179 [Darjeeling, Assam]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 322 [Easter Nepal]
	Hattori in Mizutani	1979	488	J Hatt Bot Lab 46: 391 [Central Nepal]
	Hattori	1982	132	J Jap Bot 57 (10): 301-302, fig 2(o-p) [close to Fr. incisoduthiana]
	Nath & Udar	1984	442	Proc Indian Natn Sci Acad, B 50 (2): 229, pl 3(1-21)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 96, microfiche 47 fig 3207 [from type; "India orient 1200ft Levier 52 Mai 1879"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 133
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 193-194 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Western Himalaya, Eastern Himalaya, Nepal]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 168-169, fig 162(a-f)
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 273, map 11 - Unpublished thesis.
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 16 [Nepal, 2400-4200 m]
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 74, fig 1[map], [India, Meghalaya, Eastern Himalayas]

eboracensis Lehm. 1844 582

Subgenus: Trachycolea Trachycolea

Typus: USA. "prope Novum Eboracum" [near New York] sd, Asa-Gray

in hb S (B24237, 22814) (hb LINDENBERG 7) [holotypus]
in hb S (B22813, 24122, 24123, 24141-24143, 24235, 24236) [isotypus]
in hb GLM (hb LEHMANN) 05989

Basionym:

Distribution: Azores [Portugal], Alaska, Canada (BC PQ MB NF NS NB ON), USA (ME NH VT MA CT NY NJ PA MD WV VA NC RI TN GA OH IN IL IA MI WI MN KS AR MS OK SD NM TX), Revillagigedo Isls [Mexico]

Gottsche in Lehmann	1844	589	Pugillus 8: 14-15
Gottsche in G., L. & N.	1845	2850	Syn Hepat: 423-424
Sullivant	1849	248	Mem Amer Acad Arts Sci, ser 2, 4 (1): 175 [may conspecific with Fr. saxatilis]
Gottsche	1858	1511	Bot Zeitung (Berlin) 16 (Beilage): 24
Russell	1862	680	Proc Essex Inst 2: 134 [not mentioned]
Lehnert	1886	2089	Proceed Biol Soc Washington 3: 117 [Washington andd vicinity]
Britton	1889	2441	Catalogue of plants in New Jersey [USA, New Jersey]: 347
Pearson	1890	1153	List of Canadian Hepaticae: 2-3, pl 2(1-19)
Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 18-19, pl 9, fig 1-11
Macoun	1902	1150	Catalogue Canadian Plants, VII: 46 [Canada]
Barbour	1902	2233	Bryologist 5(1): 5 [USA]
Stephani	1910	686	Spec Hepat 4: 431-432
Kurz & Little	1933	1349	Liverworts North & Central Florida: 15 [key to species of Florida, USA]
Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 771-773, fig Fr.e.(1-12)
Schuster	1953	604	Amer Midl Nat 49 (2): 569-570, pl 71(9-10)
Clark	1953	1106	Proc California Acad Sci 4 ser, 27 (18): 663 [Revillagigedo Isls: Socorro]
McGregor	1955	2240	Univ Kansas Sci, Bull 37(3): 78-79 [USA, Kansas - very common]
Yang	1960	962	Quart J Taiwan Mus 13 (3&4): 233 [Taiwan?]
Bonner	1965	655	Index Hepat 5: 293
Kamimura	1971	3708	Bull Kochi Gakuen J Coll 2: 30, fig 2(a-i) [USA, Texas]
Steere	1976		vide 633
Steere & Inoue	1978	633	J Hatt Bot Lab 44: 328 [Alaska]
Eggers	1982	22	Crypt Bryol Lichen 3 (4): 288 [Azores] /belongs ev. to other subsp
Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 86abc, microfiche 51 fig 3461 ["Wash Terity, ... Rau No 23, Dez 84, Evans p 18 tab IX"]
Hong	1989	689	Bryologist 92 (3): 367 [key to N-American species]
Crum	1991	1018	Liverw Hornw Southern Michigan: 98, fig 93 & 94c [USA, Michigan]
Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 142, fig 80(7-10), map 102 [USA: North Carolina]
Schuster	1992	603	Hepat N America 5: 132-150, fig 792(15-20), 793-794, 795(1-12), 795A(4-8) [subspecies]
Blem & Blem	1994	1443	Auk 111(1): 197-200 [part of Prothonotary Warblers nest]
Timme & Redfearn	1997	748	Evansia 14(3): 95
Timme & Redfearn	1997	1134	http://biology.smsu.edu/herbarium/liverw_t.htm [printed 20.6.2004 page 9 of 19; USA]
Timme & Redfearn	1997	631	http://science.smsu.edu/~csre/herbarium/liverw_t.htm [4.6.97] printed 15.1.98 12:34 page 2 of 6 [USA]
Bouldreault, Gaultier & Bergeron	2000	918	Bryologist 103 (4): 728-732 [epiphytic, Boreal forest of Quebec, Canada]
Smith & Davison	2001	1256	Final rep bryophyte invent Yellow Face Land tract: 19 of 30 [USA (NC)]
Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (CT MA ME NH RI VT)]
Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
Lyman	2003	1268	Checklist of Wisconsin bryophytes [USA]
Davison & Keller	2004	1168	Evansia 21 (2): 84 [USA, Great Smoky Mts NP]
Cleavitt	2004	1167	Evansia 21 (2): 53 [USA, New Hampshire]
Puterbaugh, Skinner & Miller	2004	1350	Bryologist 107(4): 524-530 [rotifers in lobules]
Fenton & Frago	2005	1294	Biol Conservation 122: 426 [Canada; remnant canopy in managed forests]
Lincoln	2008	1712	Memoir New York Bot Gard 99: 120 [New England States, USA]
Lima	2019	5121	Frullania no Brasil [Thesis]: 123-124, fig. 14 [distribution]

eboracensis ssp. virginica (Gottsche in Lehm.) R.M.Schust. 1992 597

Subgenus: Trachycolea Trachycolea

Basionym: Frullania virginica Gottsche 1844

Distribution: USA (VA NC SC TN GA MS AR LA TX)

comb nov	Schuster	1992	603	Hepat N America 5: 147- , fig 794, 795(5-12)
	Timme & Redfearn	1997	631	http://science.smsu.edu/~csre/herbarium/liverw_t.htm [4.6.97] printed 15.1.98 12:34 page 2 of 6 [USA]
	Timme & Redfearn	1997	748	Evansia 14(3): 95
	Timme & Redfearn	1997	1134	http://biology.smsu.edu/herbarium/liverw_t.htm [printed 20.6.2004 page 10 of 19; USA]

echinantha S.Hatt. 1974 600

Subgenus: Trachycolea

Typus: Neu Guinea. PNG. Southern Highlands, Mt. Gilowe, 4100m 1968, van Zanten 68-3264/a

in hb JE [holotypus] - in hb NICH [isotypus] > see fr0600.jpg
in hb L L0060923 & L0060924 (25/10/1968, Zanten, B.O. van 683339 - Papua, North slopes Mt. Gilowe, North summit. At base of shady side of noncalcareous rock. [typus]

Basionym:

Distribution: New Guinea (endemic) [Papua New Guinea: Mt Hagen, Mt Wilhelm, Mt Gilowe]

spec nov	Hattori	1974	546	J Hatt Bot Lab 38: 233-235, fig 114
	Hattori	1982	422	Misc Bryol Lichen 9 (6): 124
	Hattori	1982	495	J Hatt Bot Lab 51: 249 [orth error: echinata]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18 [Cat. West Melanesia]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 44, fig 4
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Isotype. Papua New Guinea, Mt. Gilowe. 4100 m. 1968. B. 0. van Zanten 68-3339 (NICH 431991).

echinatella S.Hatt. 1988 602

Subgenus: Trachycolea

Typus: New Guinea. PNG. Cental District, Mt Albert Edward, 2600m 19.10.1975, Hi 29958

in hb NICH [holotypus]
in hb TNS [isotypus] - [paratypus]

Basionym:

Distribution: New Guinea (endemic)

spec nov	Hattori	1988	516	J Hatt Bot Lab 65: 423-425, fig 5
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Holotype. Papua New Guinea, Central District, Mt. Albert Edward, around Abios Hut. 2600 m. On branches. 19 Oct. 1975. H. Inoue 29958 (NICH 431918). Isotype specimens: NICH 428095 & 431924.

ecklonii var. tenerior (Gottsche, Lindenb. & Nees) Sim 1926 2490

Subgenus: Chonanthelia Cladocarpicae

Basionym: Frullania ecklonii fo. b tenerior Gottsche, Lindenb. & Nees 1847

Distribution:

	Sim	1926	252	Trans Roy Soc S Africa 15: 39 [South Africa]

ecklonii (Spreng.) Gottsche, Lindenb. & Nees 1845 291

Subgenus: Chonanthelia Cladocarpicae

Basionym: Jungermannia ecklonii Spreng. 1827

Distribution: Cameroon, Democratic Republic of Congo, Kenya, Malawi, Sao Tome, Tanzania, Uganda, Kenya, Zimbabwe, Madagascar, South Africa, Mexico, Costa Rica, Guatemala, Dominican Rep, Colombia, Peru, Ecuador, Galapagos Isls [Ecuador], Brazil, Juan Fernandez Isl [Chile], Chile, tropical Asia

Sprengel in G., L. & N.	1845	2850	Syn Hepat: 413-414 [No 69]
Sprengel in G., L. & N.	1847	2848	Syn Hepat: 771
Gottsche	1863	103	Separata of Mex. Leverm.: 236
Gottsche	1864	478	Ann Sci Nat Bot, ser 5, 1: 166 (No 3)
Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 332 [as Fr. ecklonii robustior][Mexico]
Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 20-21[syn sub arecae (SPR.) GOTTSCHE]
Stephani	1886	944	Bol Soc Broteriana 4: 180 [152] [South Africa]
Stephani	1891	209	Hedwigia 30 (6): 267 [Kilimandscharo-Gebiet]
Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 222
Stephani	1895	212	Bot Jahrb 20 (3): 314 [Usambara]
Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 132, fig 70(k-q)
Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 65 [[Usagara-Usambara, Kilimandscharo, Kamerungebiet, Südwestl Kapland]
Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 67 [Chile]
Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 132, fig 70(k-q)
Cavers	1907	897	Naturalist 1907 (Jan/Feb): 12, fig 1F [water sac]
Gola in Savoia	1909	832	Il Ruwenzori, parte scientifica 1: 528
Stephani	1910	686	Spec Hepat 4: 323
Stephani in Brunnthaler	1913	219	Denkschr K Akad Wiss, Math Nat Kl, Wien 88: 728 [Deutsch-Ostafrika]
Pearson	1924	795	Arkiv Botanik 19 (5): 9 [Mt. Elgon in Kenia/Uganda]
Sim	1926	252	Trans Roy Soc S Africa 15: 38-39, figs [S Africa]
Clark & Svihla	1947	319	Bryologist 50: 82-85, fig. 1-13 (Fr arecae)
Clark & Svihla	1948	325	Bryologist 51: 23 [as Fr. arecae, key to Fr. of Middle America; Mexico, Guatemala, Costa Rica, Jamaica, Haiti, Puerto Rico, Venezuela, Brazil, Ecuador, Peru, Bolivia (Chile, Cape of Good Hope)]
Demaret & Vanden Berghen	1948	59	Bull Jard Bot Etat Bruxelles 19 (1): 73-84, fig. 5 (D)
Vanden Berghen	1953	446	Svensk Bot Tidskr 47 (2): 274-275
Herzog	1954	202	Rev Bryol Lichen 23: 56 [Chile]
Arnell	1956	881	Svensk Bot Tidskr 50 (2): 309 [Chile]
Arnell	1956	836	Ark Botanik 3 (16): 531 [East African mountains]
Clark & Svihla	1956	376	Bryologist 59: 36-38, fig. 1-24 [not as much justification for considering F. ecklonii a separate species from F. arecae]
Arnell	1963	822	Hepat S Africa: 138
Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
Menzel	1984	142	Willdenowia 14: 509 [syn of Fr. arecae]
Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 4ab, microfiche 46 fig 3067-3069 ["Cap ... Hb JACK - leg Breutel - Chile Dusen 168"]
Yuzawa, Mues & Hattori	1987	509	J Hatt Bot Lab 63: 425-436 [morphology / systematics]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 40 ["arecea" Mexico]
Yuzawa	1991	525	J Hatt Bot Lab 70: 259-261, fig. 40, map 2 a(:281) [seperate species; different from Fr. arecae]
O'Shea	1993	985	J Bryol 17: 648 [Malawi]
Buck	1994	28	Bryologist 97 (4): 422 [Vainio's specimen from Brazil at TUR]
Vital & Visnadi	1994	2245	Trop Bryol 9: 70 [Brazil]
Grolle	1995	250	Bryophyt Bibl 48: 146 [non afr3, perhaps ?]
Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 86 [Catalogue ... of Sub-Saharan Africa]
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: São Tomé]
Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
Holz, Gradstein & Heinrichs	2002	1404	Bryologist 105(3): 336-337 [Costa Rica]

Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Cameroun, Kenya, Malawi, South Africa, Sao Tome, Tanzania, Uganda, DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Holz	2003	1185	Diversity Ecology Montane Quercus Forest, Costa Rica [Dissertation]: 46, 76, 114, 150 [upper montan oak forest, in mats]
Chuah-Petiot & Pocs	2003	1082	Acta Bot Hungarica 45 (1-2): 57 [Aberdare Mts., Kenya]
Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 205, fig 265(a-h) [Kenya; key to species]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86 [Brazil]
Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Cameroun, Kenya, Malawi, South Africa, Sao Tome, Tanzania, Uganda, DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Wigginton	2004	1172	Sript Bot Belg 30: 225-226, fig 146(N) from type, close to arecae [West Africa; Cameroon, Sao Tome, from Kenya to South Africa]
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
Holz & Gradstein	2005	1408	J Biogeogr 32: 1595 [Costa Rica: Cordillera de Talamanca]
Camara, Oliveira & Santiago	2005	1359	Trop Bryology 26: 137 [Brazil; Distrito Federal Brasilia]
Camara & Costa	2006	1131	Hoehnea 33(1): 82-83 [Reserva Ecologica do IGBE, Brazil]
Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 384 [Dominican Republic,new to Hispaniola]
Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149 [Galapagos Isl, Santa Cruz, on twigs of Scalesia at crater edge above Santa Rosa, 500 m. GD: pantropical]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 361 [Colombia; synopsis of Frullaniacae & keys]
Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
Lima	2019	5121	Frullania no Brasil [Thesis]: 55-57, fig. 4 [distribution]
Gradstein	2021	5642	Mem NY Bot Gard 121: 365 [key -Ecuador, Colombia]

ecklonii var. rufescens Gottsche, Lindenb. & Nees 1847 301

Subgenus: Chonanthelia Cladocarpicae

Typus: Colombia. Caracas Moritz 85

hb REG BEROL

Basionym:

Distribution: Colombia

Gottsche, Lindenb. & Nees	1847	2848	Syn Hepat: 771 [var 6 ß, Habitat ad Caracas Columbiae. (Moritz n. 86 Hb. Reg. Berol.)

ekaterinae Mamontov, Ignatov et Perkovsky 2019 2530

Subgenus:

Typus:

SIZK-K-10091F; liverwort in an amber sample; Klesov (Pugach quarry), Rovno amber, Late Eocene.

Basionym:

Distribution: Fossil Ukraine (Rovno Amber)

Mamontov et al.	2019	5615	Paleontological Journal 53(10): 1095–1103

elegans Lehm. 1857 609

Subgenus: Trachycolea

Basionym:

Distribution: Tropical America

spec nov	Lehmann	1857	896	Pugillus 10: 16-17
	Gottsche	1858	1511	Bot Zeitung (Berlin) 16 (Beilage): 27
	Stephani	1911	686	Spec Hepat 4: 676
	Bonner	1965	655	Index Hepat 5: 294

elephantum S.Hatt. 1977 610

Subgenus: Trachycolea

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1977	479	J Hatt Bot Lab 43: 416-419, fig 5-6 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 125
	Hattori	1984	503	J Hatt Bot Lab 57: 412
	Hattori	1986	506	J Hatt Bot Lab 60: 218
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Holotype. New Caledonia, Col de Vulcain. 900 m. On bark of shrub. 11 Nov. 1950. M. G. Baumann-Bodenheim 8247 (NICH 353819).

epiphylla ssp. fijiensis S.Hatt. 1985 614

Subgenus: Trachycolea

Typus: Fiji. Monasavu, 830-850m 8.1982, NK 23346

in hb NICH [holotypus]

Basionym:

Distribution: Fiji

ssp nov	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 14-15, fig 2(a-b)

epiphylla S.Hatt. 1974 [non Vanden Berghen 1976] 613

Subgenus: Trachycolea

Typus: New Guinea. PNG. Central, Owen Stanley Range, Epeka river, 1150m 1968, van Zanten 68-3681/i2

in hb JE [holotypus]
in hb NICH [isotypus]
in hb L L0060925 (10/11/1968, Zanten, B.O. van 683681 i - South-East New Guinea: Owen Stanley Range, Epeka-river. Epiphyllous. Along stream, in shade. [typus]

Basionym:

Distribution: New Guinea

spec nov	Hattori	1974	546	J Hatt Bot Lab 38: 235-237, fig 115
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 338 [map of Africa]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 18-19 [Cat. West Melanesia]
	Hattori	1988	516	J Hatt Bot Lab 65: 425 [PNG]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 44, fig 4
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Isotype. New Guinea, Owen Stanley Range, Epeka river. 1150 m. 1968. B. 0. van Zanten 68-368//i2 (NICH 431992).

eplicata Steph. 1911 615

Subgenus: Meteoriopsis Obtusilobae

Typus: Tansania. Usambara, Amani, 800m -.8.1909, Brunnthaler sn

in hb G [holotypus]

Basionym:

Distribution: Democratic Republic of Congo, Ghana, Malawi, Mozambique, Tanzania, Zambia, Zimbabwe, South Africa

spec nov	Stephani	1911	686	Spec Hepat 4: 679
	Stephani in Brunnthaler	1913	219	Denkschr K Akad Wiss, Math Nat Kl, Wien 88: 728 [as spec nov]
	Arnell	1963	822	Hepat S Africa: 150, fig 110(a-f)
	Bonner	1965	655	Index Hepat 5: 297
	Vanden Berghen	1972	249	Expl Hydrobiol Bassin Bangweolo et Luapula 8 (1): 69-72, fig 27(a-q) [Zambia]
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 350 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 83-87, fig 21(a-l)
	Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 251 [Ghana]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 15, microfiche 50 fig 3366 [from type; "Africa orient, Usambara, Brunnthaler 1909"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 86 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [new to Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Ghana, Malawi, Mozambique, South Africa, Tanzania, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 218-220, fig 140(A-M) [West Africa]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Ghana, Malawi, Mozambique, South Africa, Tanzania, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

ericoides var. ß laxa (Gottsche, Lindenb. et Nees) Schiffn. 1898 492

Subgenus: Trachycolea Trachycolea

Typus:

in hb GLM (hb LEHMANN) 05992

Basionym: Frullania ericoides var. ß laxa Gottsche, Lindenb. & Nees 1845 [p. 417, Wight, Indien]

Distribution: India, Indonesia (Java)

	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 324 [Java]

ericoides var. verrucosa (Kamim.) Hentschel & von Konrat 2015 1963

Subgenus: Trachycolea Trachycolea

Basionym: Frullania squarrosa var. verrucosa Kamim. 1961

Distribution:

comb nov	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 134-135 [Frullania ericoides var. verrucosa (Kamim.) Hentschel et von Konrat, comb. nov.]

ericoides (Nees) Mont. 1839 441

Subgenus: Trachycolea Trachycolea

Basionym: Jungermannia ericoides Nees in Martius 1833

Distribution: Madeira [Portugal], Canary Isl (GC Go Hi Pa Te)[Spain], Cape Verde Isl, Angola, Annobon, Ascension Isl, Bioko, Ivory Coast, Cameroon, Central African Republic, Congo Dem Rep, Ethiopia, Gabon, Ghana, Guinea, Kenya, Malawi, Mozambique, Nigeria, Principe, Rwanda, Sierra Leone, Socotra, Tanzania, Togo, Uganda, Zambia, Zimbabwe, Benin, Madagascar, Mauritius, Reunion, Seychelles (Mahe, Praslin, Silhouette, Aldabra), Comores, Rodriquez, South Africa (Natal), USA (FL SC NC AL MS LA VA DC NJ NY CT RI TN WV IL OH IN KY IA MS VT AR OK TX), Mexico, Nicaragua, Costa Rica, Panama, Cuba, Jamaica, Puerto Rico, Dominican Rep, Venezuela, Colombia, Galapagos Isls [Ecuador], Peru, Ecuador, Bolivia, Surinam, French Guiana, Brazil, Paraguay, Easter Isl [Chile], Chile, Argentina (Misiones, Santa Fe, Entre Ríos, Buenos Aires), Falkland Isl [Argentinia], China (Gansu, Xizang, Yunnan, Jiangsu, Guangdong, Sichuan, Hunan, Hainan, Zhejiang, Fujian, Anhui, Shandong), Taiwan, Korea (South), Japan (Honshu, Kyushu, Shikoku), Bonin Isl (Hahajima), Ryukyu (Ishigaki), India (North: Uttaranchal, West Bengal (Darjeeling), Assam, Meghalaya; South: Tamil Nadu (Nilgiri Hills)), Andaman Isl [India], Sri Lanka, Nepal, Bhutan, Sikkim, Laos, Burma, Vietnam, Thailand, Cambodia, Indonesia (Sumatra, Java, Bali, Sulawesi), Malaysia (Penang, Pahang, Sabah), Borneo, Philippines (Luzon), New Guinea, Socotra, Australia (NSW, QLD, VIC), Lord Howe Isl, New Caledonia, Northern Marianas, Fiji (?Viti Levu), Society (Tahiti), Gambier Isl (Mangareva), Henderson Isl, Hawaii (Kauai, Oahu, Molokai, Maui, Hawaii Isl)

stat nov	Montagne	1839	465	Ann Sci Nat Bot, ser 2, 12: 51 [Brasil] [vide GROLLE 1968: 541 #613]
	Nees in G., L. & N.	1845	2850	Syn Hepat: 417
	Nees in G., L. & N.	1847	2848	Syn Hepat: 773
	Hampe	1851	281	Linnaea 24 (3): 303 [Jamaica]
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 78-79
	Mitten	1861	574	J Linn Soc Bot 5: 119 [India: Nepal, Sikkim, Khasi Mts]
	Gottsche	1863	103	Separata of Mex. Leverm.: 239
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 312 [Sumatra]
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 335 [Mexico]
	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 88 [Brazil]
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 33
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 324-325
	Stephani	1910	686	Spec Hepat 4: 388 [syn sub Fr. squarrosa]
	Evans	1914	235	Trans Connet Acad Arts Sci 18: 343 [Peru]
	Herrera	1926	2788	Chloris Cuzcoensis: 15
	Verdoorn	1929	246	Ann Bryol 2: 156 [Fr. ericoides in S L 1857 = Fr. squarrosa fo. ericoides]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 34-37, fig. 18-12, 42-45, 130-132 [as Fr. squarrosa]
	Chopra	1943	205	J Indian Bot Soc 22: [NW Himalaya]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 776 [sub Fr squarrosa]
	Herzog	1952	803	Feddes Repert 55: 10 [Argentina; as Fr squarrosa NEES]
	Kamimura	1961	199	J Hatt Bot Lab 24: 17-19, fig. 4(1-8), map 3 [as Fr. squarrosa]
	Arnell	1963	822	Hepat S Africa: 150 [syn sub Fr. squarrosa]
	Grolle	1968	613	Trans Brit Bryol Soc 5 (3): 541 [ericoides = squarrosa] [TYPUS]
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 315 [key to europe & macaronesia]
	Kamimura	1971	3708	Bull Kochi Gakuen J Coll 2: 30 [USA, Texas]
	Hattori in Hara	1971	190	Univ Mus Univ Tokyo Bull 2: 236 [Bhutan]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 122-123, fig 61(a-d) [Central Japan]
	Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 330, fig 169 [711]
	Hattori	1973	542	J Hatt Bot Lab 37: 130-131
	Hattori	1973	542	J Hatt Bot Lab 37: 149 [New Guinea]
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Hattori	1974	544	J Hatt Bot Lab 38: 178 [Luzon]
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 234 [Nepal]
	Hattori	1975	547	J Hatt Bot Lab 39: 284
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 111
	Grolle	1976	183	Feddes Repert 87 (3/4): 193 [Type & isolectotype]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 161-167, fig. 39 [Africa]
	Hattori	1976	80	J Hatt Bot Lab 40: 474-475 [Borneo]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 364 [map of Africa]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 448-449 [Thailand]
	Hattori	1977	479	J Hatt Bot Lab 43: 419 [New Caledonia]
	Grolle	1978	285	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 27 (1): 11 [Seychellen]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 179 [India]
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 65-66 [India: Darjeeling, Burma, Nepal]

Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 129 [India]
Hattori & Thaithong	1978	128	J Jap Bot 53 (6): 172 [Laos]
Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East Africa; Zimbabwe, Tanzania]
Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 322 [Easter Nepal]
Hattori	1979	130	J Jap Bot 55 (5): 134 [Japan /Ryukyu]
Hattori	1979	129	J Jap Bot 54 (1): 23 [Sri Lanka]
Long	1979	50	Lindbergia 5: 59-60 [Bhutan]
Choe	1980	1171	Illust Fl & Fauna Korea 24: 733 [South Korea]
Onraedt & Cremers	1980	75	Crypt Bryol Lichen 1 (3): 274 [French Guiana]
Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 254 [Japan]
Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 113 [Taiwan]
Onraedt	1981	5794	J Hatt Bot Lab 50: 201-202 [Sri Lanka]
Eggers	1982	22	Crypt Bryol Lichen 3 (4): 288 [Macaronesia]
Hattori	1982	495	J Hatt Bot Lab 51: 249-250
Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 8 Galapagos Isls]
Koppe & Düll	1982		Bryol Beitr 1: <37-107>
Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 213 [key to Madagascar] & 223
Li & Gao	1983	2800	Invest Stud Nat 1: <19-26> [aus 698]
Düll	1983	620	Bryol Beitr 2: 67 [Europe & Macaronesia]
Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 251 [Sierra Leone, Ghana]
Menzel	1984	142	Willdenowia 14: 490 [Peru]
Menzel	1984	142	Willdenowia 14: 489 [Peru]
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
Hattori	1984	503	J Hatt Bot Lab 57: 412 [New Caledonia]
Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
Liu	1985	2801	Invest Stud Nat 5: <133-155> [aus 698]
Wu in Li, Gao, Wu et al.	1985	1169	Bryoflora Xizang (Tibet), Science Press, Beijing: 522 [as F. squarrosa]
Neto & Yano	1985	1343	Revta brasil Bot 8: 200 [Brazil, Serra de Sao Vicente]
Schuster	1985	441	Phytologia 57 (5): 371 [sect Trachycolea, ssect Ericoides - type species for nov ssect]
Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 103 [New Guinea]
Hattori & Lin	1985	505	J Hatt Bot Lab 59: 133 [China]
Hattori	1986	507	J Hatt Bot Lab 60: 242 [Seram]
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302 [Philippines]
Hattori	1986	507	J Hatt Bot Lab 60: 268 [Bali]
Hegewald & Zanten	1986	508	J Hatt Bot Lab 60: 268 [Bali]
Judd	1987	1681	Bull Florida State Mus, Biol Sci 32(1): ?? [Florida, USA]
Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
Hattori	1987	400	Bryologist 90 (4): 365 [Lord Howe Is.]
Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
Hattori	1988	516	J Hatt Bot Lab 65: 425 [PNG]
Hattori & Piippo	1988	557	Acta Bot Fennica 133: 45
Reiner	1988	1043	Bol Soc Argentina Bot 25 (3-4): 316-319, fig 6(a-m) [Argentina, Prov Buenos Aires]
Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
Grolle	1988	94	Haussknechtia 4: 44 [Ascension Is.]
van Zanten & Gradstein	1988	88	Nova Hedwigia Beih 90: 57 [experimental dispersal geography]
Tixier	1988	7	Crypt Bryol Lichen 9 (1): 48-49 [Easter Island by C A Bolalion]
Hattori	1988	429	Nova Hedwigia Beih 90: 148 [Australia: NSW]
Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [French Guiana, Suriname]
Xu	1989		[aus 698]
Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 258 [key to Europe & Macaronesia] & 262
Windolf	1989	1026	Austrobaileya 3(1): 104 [Queensland]
Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]
Visnadi & Monteiro	1990	1293	Hoehnea 17(1): 74 [Brazil; Cidade de Rio Claro, Sao Paulo]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 42 [Mexico]
Porto	1990	77	Crypt Bryol Lichen 11 (2): 122 [Brazil]
Long & Grolle	1990	522	J Hatt Bot Lab 68: 413 [Bhutan, habitat & distribution]
Piippo	1990	521	J Hatt Bot Lab 68: 40 [annotated catalogue of China]

Piippo	1990	521	J Hatt Bot Lab 68: 40 [annotated catalogue of China]
Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
Morales Z.	1991	307	Trop Bryol 4: 37 [Costa Rica]
Schäfer-Verwimp	1991	523	J Hatt Bot Lab 69: 153 [Brazil]
Ischiyama & Iwatsuki	1991	267	Hikobia 11: 65-70 [Japan: Hiroshima]
Chao & Lin	1991	458	Yushania 8: 10-11 [Taiwan]
Sim-Sim & Sergio	1991	1194	IX Simposio Nacional Bot Cript, Salamanca: 252 [Madeira]
Vital, Giancotti & Pursell	1991	1344	Trop Bryology 4: 23 [Brazil]
Schuster	1992	603	Hepat N America 5: 228-238, fig. 798(10-12), 811, 812, 815(4-5)
Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
Behar, Yano & Vallandro	1992	921	Bol Mus Biol Mello Leitao, new ser 1: 27 [Brazil]
Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 137-139, fig 77(1-8), map 99 [USA: North Carolina]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Chao & Lin	1992	460	Yushania 9: 200, fig 5(a-f) [Taiwan]
Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): 4 [Canary Isl: GC, Go, Hi, Pa, Ten]
Fischer	1993	309	Trop Bryol 8: 95 [key to species in eastern Zaire & Rwanda]
O'Shea	1993	985	J Bryol 17: 648 [Malawi]
Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire, Rwanda]
Zhang et alii	1993		[aus 698]
Wolf	1993	2380	Phytocoenologia 22(1): 20, 19, 30-32 [Colombia, Epiphyte -Lowland forest, 1000m: Heterodermia albicans-Trypethalium eluteriae community]
Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 194 [Nepal]
Lin, Li, Wu & Li	1994	1230	Chenia 2: 67 [China, Hainan]
Yi, Liu & Lang	1994	1227	Chenia 2: 109 [China, Shandong Prov]
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Western Himalaya, Eastern Himalaya, Nepal, Central India] - new record from Central India (Lal & Parihar 1979)
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
De Sloover	1995	2	Crypt Bryol Lichen 16 (3): 216 [Seychellen]
Kim, Ri, Hoang, Huneck & Grolle	1995	2056	Feddes Repert 106: 293 [DPR of Korea]
Visnadi & Vital	1995	32	Trop Bryol 10: 70-71 [Brazil: Setiba State Park]
Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
Tixier	1995	730	Trop Bryol 11: 18 [ephiphyllous in Zaire & Rwanda]
Grolle	1995	250	Bryophyt Bibl 48: 65 [afr3]
Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles (Mahé Isl, Praslin Isl)]
Seaward, Hambler & Aptroot	1996	298	Trop Bryol 12: 31 [Seychelles: Aldabra]
Drehwald	1996	271	Nova Hedwigia 63 (3-4): [NO-Argentinia]
Pérez & Sánchez	1996	297	Trop Bryol 12: 47 [Bioco, Annobón]
Kappelle	1996	1409	Los Bosques de Roble, Cordillera de Talamanca, Costa Rica: 257
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 87 [Catalogue ... of Sub-Saharan Africa]
Frahm, Lindlar, Sollman & Fischer	1996	301	Trop Bryol 12: 129 [Cape Verde Isl]
Timme & Redfearn	1997	1134	http://biology.smsu.edu/herbarium/liverw_t.htm [printed 20.6.2004 page 10 of 19; USA]
Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Surinam, French Guiana]
Lin & Chen	1997	1130	Biol Bull 75: 88, fig 5(a-d) [Taiwan, key to species, in Taiwanese]
Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula]
Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [China]
Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
Hong	1997	693	Lindbergia 22: 138 [Korea]
Sim-Sim	1997	688	Portug Acta Biol (B) 17: 48, fig 1 [Madeira]
Timme & Redfearn	1997	748	Evansia 14(3): 95
Timme & Redfearn	1997	631	http://science.smsu.edu/~csre/herbarium/liverw_t.htm [4.6.97] printed 15.1.98 12:34 page 2-3 of 6 [USA]
Costa & Yano	1998	757	Hoehnea 25 (2): 101 [Brasil]
Nath & Asthana	1998	683	J Bryol 20(1): 233 [South India]
Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]

Bastos, Albertos & Vilas Boas	1998	1240	Trop Bryol 14: 70 [Brazil, Bahia]
Nath & Asthana	1998	708	J Hatt Bot Lab 85: 71-72, fig 4(14-24) as Fr. squarrosa [South India; key to all spec.]
Leon, Pocs & Rico	1998	706	Crypt Bryol Lichen 19 (1): 14 [Venezuela, Andes]
Sha, Yang & Teng	1998	1221	Chenia 5: 97-101 [karyolocial study, China]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 151 [Yunnan, China]
Boas-Bastos & Bastos	1998	702	Trop Bryol 15: 103 [Brazil, Bahia]
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
Griffin III & Snow	1998	1328	Tipularia 13: 27 [USA]
Müller	1999	715	Trop Bryol 16: 100 [Ivory Coast]
Gradstein	1999	1215	Bryobrothera 5: 85 [Colombia & Ecuador on cacao trees]
Sim-Sim	1999	720	Crypt Bryol 20 (2): 128-132, fig 24(a-j), 25 [Portugal, Madeira]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
Hodgetts, Matcham & Duckett	1999	754	J Bryol 21: 142 [Natal]
Yano & de Mello	1999	919	Iheringia, ser Bot 52: 74-75, fig 1-9 [Brasil]
Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia]
Bapna & Kachroo	2000	712	Hepaticology in India II: 169-170, fig163(a-d)
Dilg & Frahm	2000	1239	Trop Bryol 19: 2 [epiphytisch, Benin]
Vital, Capelari, Gugliotta & Bodoni	2000	1081	Trop Bryol 19: 32 [growing on on fungi Phellinus spec]
Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 117, fig. 49(6-8)
Lin	2000	1524	Liverwort Flora Taiwan: 158, fig p 158(1-3) [Taiwan]
Kürschner	2000	737	Bryophyt Bibl 55: 39 [Socotra], map 43
Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: Annobon, Bioko, Príncipe]
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 368, fig 192(7-15) [China, Yunnan]
Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 26-27, fig 13(a-j) [Rio de Janeiro, Brazil]
Dierssen	2001	779	Bryophyt Bibl 56: 216 [ecology in European bryophytes]
Kaul	2001	1371	Perspectives Indian Bryology: 75-85 [India; Pachmarhi]
Joshi	2001	1372	Perspectives Indian Bryology: 135-148 [Andaman Islands]
Visnadi & Vital	2001	1120	Acta bot bras 15 (2): 260 [Brazil]
Yuzawa	2001	1660	Natural Environmental Sci Res 14: 13, fig 10(a-r) [Japan, keys to species; in Japanese]
Greene	2001	1255	Liverworts & hornworts of New England: 7 of 9 [USA, New England (CT RI VT)] as #456
Izquierdo Zamora	2001	2885	Lista especies silvestres Canarias, banco datos bidiversidad: 89 [Canarias: H P G T C]
Singh in Nath & Astana	2001	1374	Perspectives Indian Bryology: 342 [India & Cosmopolitan]
Gyarmati	2001	772	Crypt Bryol 22 (1): 48 [Ivory Coast]
O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281, pl 164(3) [with key to Japan, in Japanese]
Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
Bai	2001	1742	Guizhou Science 19(4): 36 [China, Yunnan]
Molinario & Costa	2001	1086	Rodriguesia 52 (81): 113 [Brazil, Bot Gard in Rio de Janeiro]
Srivastava & Alam	2002	1251	J Bombay Nat Hist Soc 99(2): 235-236 [as Fr squarrosa ; Nilgiri, key to South Indian species]
Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
Nath & Saxena	2002	2572	WCB Lucknow: 57 [Bhutan]
Cai	2002	1192	Chenia 7: 151 [China, Anhui Prov.]
Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, new to Fujian Prov.]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Eritrea, Ethiopia, gab, Ghana, Guinea, Ivory Coast, Kenya, Mauritius, Madagascar, Malawi] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Aldabra, Angola, Annobon, Ascension, Benin, Bioko, Burundi, Central African Rep, Cameroun, Comores, Congo, Cape Verde] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Kattel	2002	1032	Liverworts of Nepal, Katmandu: 17 [Nepal, 1000-2000 m]
Bytebier & Chuah-Petiot	2002	1076	Trop Bryol 22: 63 [Taita Hills, Kenya]
Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 254-257, pl 50 (13-36), map 11 - Unpublished thesis.
Bai	2002	1189	Chenia 7: 6 [Yunnan, China]

Grolle	2002	1105	Bryologist 105 (1):126 [Easter Isl]
Müller & Pocs	2002	1078	Trop Bryol 22: 110 [Rodrigues] & 113 [Commors, Magagascar, Mauritius, Reunion, Seychelles]
Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 81 & 93 [Brazil]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Mozambique, Nigeria, Principe, Reunion, Rodrigues, Rwanda, South Africa, Seychelles, Sierra Leone, Socotra, Tanzania, Togo, Uganda, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86, fig 28(d-f) [Brazil]
Chuah-Petiot & Pocs	2003	1082	Acta Bot Hungarica 45 (1-2): 55 [Nairobi township, Kenya]
Drehwald	2003	2813	Cambios en la vegetación briofítica: 296 [Bolivia (Parque Nacional Amboro)]
Drehwald	2003	2813	Cambios en la vegetación briofítica: 300 [Bolivia (Reserva Nacional Río Blanco / Negro)]
Li	2003	1505	Memoirs Hong Kong Nat Hist Soc 26: 82-83 [Hong Kong]
Kürscher	2003	1099	Willdenowia 33: 454 [checklist of Socotra]
Gao & Lai	2003	1441	Illustrations Bryophytes China: 1093-1095, fig 508(7-15) [China]
Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 205, fig 266(a-e) [Kenya; key to species]
Carthy	2003	1125	Flora Australia Suppl Ser 21: 43 [Australia (NSW, QLD, VIC)]
Costa	2003	1447	Acta Amazonica 33(3): 3 [Brazil, State of Acre]
Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
Wigginton	2004	1172	Sript Bot Belg 30: 229-233, fig 152(A-N) [West Africa]
Camara & Vital	2004	1367	Acta bot bras 18(4): 884 [Brazil, Panatanal de Mato Grosso]
Porto, Germano & Borges	2004	1446	Brejos de Altitude em Pernambuco e Paraiba: 83 [Brazil]
But	2004	147	Checklist of Hong Kong
Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Davison & Keller	2004	1168	Evansia 21 (2): 84 [USA, Great Smoky Mts NP]
Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Yano & Camara	2004	1292	Acta Amazonica 34(4): 455 [Brazil: Manaus, Rio Clara, Belem, Salvador]
Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
Visnadi	2004	1158	Acta bot bras 18(1): 93 [Sao Paulo, Brazil]
Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Mozambique, Nigeria, Principe, Reunion, Rodrigues, Rwanda, South Africa, Seychelles, Sierra Leone, Socotra, Tanzania, Togo, Uganda, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Eritrea, Ethiopia, gab, Ghana, Guinea, Ivory Coast, Kenya, Mauritius, Madagascar, Malawi] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Aldabra, Angola, Annobon, Ascension, Benin, Bioko, Burundi, Central African Rep, Cameroun, Comores, Congo, Cape Verde] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Martinez	2005	2307	Cuba: Parque Nacional Alejandro de Humboldt", p. 221
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
Peralta & Yano	2005	1488	Acta bot bras 19(4): 971 [Brazil, Sao Paulo]
Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
Camara, Oliveira & Santiago	2005	1359	Trop Bryology 26: 137 [Brazil; Distrito Federal Brasilia]
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
So & Wang	2006	1466	J H B L 100: 429 [excluded from Hawaii]
Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 108-109 [Madeira, annotated catalogue]
Manachit	2006	2326	Thesis: Doi Suthep-Pui National Park, Chiang Mai Province [Thailand]: 136-138, fig 37(1-6)

Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
Song & Yamada	2006	1445	J H B L 100: 445 [from Jeju (Cheju) Isl, Korea]
Camara & Costa	2006	1131	Hoehnea 33(1): 83 [Reserva Ecologica do IGBE, Brazil]
Staples & Imada	2006	1716	Trop bryol 28: 27 [Hawaii]
Germano & Porto	2006	1402	Crypt Bryol 27(1): 154 [Brazil]
McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW VIC]
Yano & Peralta	2007	1461	Hoehnia 34(1): 89 [Brazil]
Yano & Peralta	2007	1461	Hoehnea 34(1): 89 [Ilha do Bom Abrigo, Brasil]
Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Canary Isl., Madeira]
Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Pantropical, lowland]
Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 62-63, fig 1[map], 4(13-36) [India, Meghalaya, Eastern Himalayas]
Lincoln	2008	1712	Memoir New York Bot Gard 99: 125 [New England States, USA]
Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149 [Galapagos Isl, Note: probably the most drough-tolerant leafy liverwort species occurring in the Galapagos islands; the only one occurring in the arid zone]
Lima, Dirkse, Núñez & González Mancebo	2009	1262	Lista especies silvestres Canarias,108 [Canarias: H P G T C]
Gradstein & Ilkiu-Borges	2009	1920	Mem New York Bot Gard 76(4): 45, fig 25(a-c) [French Guiana]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 384 [Dominican Republic, Hispaniola]
Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 49 [Brazil]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 233(7-15) [key in Chinese]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 361 [Colombia; synopsis of Frullaniacae & keys]
Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Howarth	2011	5110	Thesis: 253 [Peru, epiphytic cloud forest]
Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
Söderström, Hagborg et al.	2013	3831	Polish Botanical Journal 58(1): 270 [Paraguay]
Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 21-22 [Ecuador]
Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
Schäfer-Verwimp	2014	3977	Phytotaxa 173´2(3):213 [checklist Panama]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Rodriquez et al.	2017	4629	Arnaldoa 24(1): 255 [Peru, La Libertad] as squarrosa
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 61-65, fig 28(a-i) [checklist & revision of genus Fullania, Thailand]
Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Cañiza, Peralta & Suárez	2017	4734	Cryptogamie, Bryologie 38(4):396 [Paraguay]
Lima et al.	2018	5025	Rodriguésia 69 (3) 974, fig 1(a-i), key
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 21, photos [Sumatra, with key]
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts] [annotation 104]
Lima	2019	5121	Frullania no Brasil [Thesis]: 113-121, fig. 12 [distribution], 13(a-n)
Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 402-406, fig 146(a-m), 147(a-r) [India (Western Ghats, keys]
Gradstein	2021	5642	Mem NY Bot Gard 121: 365-366, fig. 37l,m [key -Ecuador, Colombia]
Gradstein & Peres	2021	6056	Candollea 76: 44 [new syn: Fr allionii - Ecuador]
Judziewicz & Freire	2023	6443	Bishop Museum Occasional Papers 155: 161 [Hawaii., = Frullania sandvicensis, misidentification, (see So & Wang 2006: 428-429)]

erostrata S.Hatt. 1974 565

Subgenus: Trachycolea

Typus: PNG: NE New Guinea, Western Highlands, village of Mt. Hagen, 1700m "coffee plantation in front of the Motel. On the more or less shaded bases of gumtrees." 1968, van Zanten 68-825/b

in hb JE [holotypus]
in hb NICH [isotypus]
in hb L L0060926 [isotypus]

Basionym:

Distribution: New Guinea [endemic]

spec nov	Hattori	1974	546	J Hatt Bot Lab 38: 237-239, fig. 116-117
	Hattori	1978	482	J Hatt Bot Lab 44: 538-539, fig 209 [perianth, orth error as ecostata]
	Hattori	1982	495	J Hatt Bot Lab 51: 250
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Hattori	1988	516	J Hatt Bot Lab 65: 425 [PNG]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 45
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Isotype. New Guinea, W. Highlands, Mt. Hagen. 1700 m. 1968. B. 0. van Zanten 68-825/b (NICH 431995).

errans var. angulistipula S.Hatt. 1972 567

Subgenus: Trachycolea Australes

Typus: New Guinea. PNG. Simbu: Mt. Wilhelm, 10700-11000ft 1967, Schuster 67-6037/a

in hb NICH [holotypus]
in hb JE, MASS [isotypus]

Basionym:

Distribution: New Guinea [endemic]

var nov	Hattori	1972	539	J Hatt Bot Lab 36: 431-433, fig 13
	Hattori	1973	542	J Hatt Bot Lab 37: 149 [New Guinea]
	Hattori	1982	495	J Hatt Bot Lab 51: 243-244
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 42, fig 3
	Hattori	1988	516	J Hatt Bot Lab 65: 425-426 [PNG]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 23: Holotype. New Guinea, Central Highlands, Mt. Wilhelm. 10700-11000 ft. 5 June 1967. R. m: Schuster 67-6037a (NICH 309930)

errans Verd. 1930 566

Subgenus: Trachycolea Australes

Typus: New Guinea, Indonesia. West Irian. Jayawijaya [Dutch New Guinea]: Goliathgebergte, 1950-3000m 4-5.1991, de Kock misit Fleischer, hb VERDOORN 9146, in hb FH [holotypus]

Basionym:

Distribution: New Guinea [endemic]

	Verdoorn	1930	293	Ann Bryol Suppl 1: 59-60, fig 89-90
spec nov	Verdoorn	1930	549	Nova Guinea 14 (4): 542, pl. 92(5-9)
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 486 [Niederl. Neu Guinea]
	Bonner	1965	655	Index Hepat 5: 298
	Hattori	1972	539	J Hatt Bot Lab 36: 433-435, fig 14
	Hattori	1974	545	J Hatt Bot Lab 38: 198-199 [key to campanulata & allied species]
	Hattori	1974	546	J Hatt Bot Lab 38: 239-240
	Hattori	1975	547	J Hatt Bot Lab 39: 284
	Hattori	1982	495	J Hatt Bot Lab 51: 243
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 42
	Hattori	1988	516	J Hatt Bot Lab 65: 425 [PNG]

esenbeckiana Beauverd 1924 568

Subgenus: Trachycolea

Basionym: Frullania grossiloba Steph. 1911 [hom illeg] [non Steph. 1910]

Distribution: Mexico

nom nov	Beauverd in Stephani	1924	909	Spec Hepat 6: 570 [Frullania Esenbeekiana Beauverd, nom. nov. = F . grossiloba Stephani in Spec. Hep. IV [1911]"]
	Bonner	1965	655	Index Hepat 5: 298
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 42 [Mexico]

evelynae S.Hatt. & Thaithong 1978 571

Subgenus: Trachycolea

Typus: India, Assam, between Circuit House & Mashwai Cave, Cherrapungi, 53 km from Shillong, 4800ft
in hb NICH, in hb TENN [isotypus], hb IWATSUKI, E. & A. SHARP 744

Basionym:

Distribution: China (Yunnan), India (North: West Bengal (Darjeeling), Assam, Meghalaya (Khasi Hills, Shillong, Cherrapunji)), Bhutan

spec nov	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 179-182, fig 2(a-p), 3(a-g)
	Nath & Udar	1984	442	Proc Indian Natn Sci Acad, B 50 (2): 233
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 134 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 40 [annotated catalogue of China]
	Long & Grolle	1990	522	J Hatt Bot Lab 68: 413 [Bhutan; habitat & distribution]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Eastern Himalaya] - new species from Eastern Himalayas (Hattori & Thaitong 1978)
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 170-171
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 422 [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 36 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 7 [Yunnan, China]
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 273-274, map 11 - Unpublished thesis.
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 74-75, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 24: Holotype. India, Assam, Charrapungi. 4800 ft. 7 Apr. 1965. Z. Iwatsuki et al. 7144 (NICH 261411).
	Singh & Barbhuiya	2011	3042	Taiwania, 56(3): 247-253, fig 1(1-21) [India, Mizoram]

evelynae var. devendrae Sushil K.Singh & Barbhuiya 2012 2447

Subgenus: Trachycolea

Typus: INDIA, Mizoram, towards Pangkhua from Sangau, Terrestrial 28.06.2008, S. K. Singh 119860
(ASSAM: Holotype).

Basionym:

Distribution: India (Assam)

var nov	Singh & Barbhuiya	0	2012	Taiwania, 57(2): 106-116, 2012

evoluta Mitt. 1861 b 572

Subgenus: Frullania

Typus: Sikkim. (Himalaya, 7-8000ft) "India, Lake Catsuperri, Sikkim, Himlaya" sd, J. D. Hooker (No 1519) [should be 1419 according Hattori 1974]
in NY 1048673 (hb W. MITTEN - sd, Collector unspecified 1419) = typus, vide HATT. 1974 & 1975 [holotypus]
not 1519 in hb G15401,
in hb S (B22822) [isotypus]

Basionym:

Distribution: India (South: Tamil Nadu (Kodaikanal)), Sikkim

spec nov	Mitten	1861	574	J Linn Soc Bot 5: 122
	Stephani	1911	686	Spec Hepat 4: 557 [= Fr. evoluta, sgen Frullania
	Stephani	1911	686	Spec Hepat 4: 451 [= Fr. nepalensis, sgen Trachycolea]
	Chopra	1938	1648	Proceed Indian Acad Sci, sect B, 8: 437 [Sikkim Himalayas and Bengal]
	Chopra	1938	933	Proceed Indian Acad Sci, sect B, 7 (5): 248 [South India]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: EH SI]
	Bonner	1965	655	Index Hepat 5: 298
	Hattori	1974	545	J Hatt Bot Lab 38: 215-217, fig. 103
	Hattori	1975	47	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (2): 76 [about Mitten´s specimen]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-127, microfiche 52 fig 3517 ["India orient, Himalaya, Hooker & Thomson 1519"]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Eastern Himalaya]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 192
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]

eymae var. crispidentata S.Hatt. & Streimann 1985 580

Subgenus: Trachycolea

Typus: New Guinea [PNG]. Morobe: Aseki-Menyamya Road, 11 km NW off Aseki, 1930m

?, HS & ET 12153

Basionym:

Distribution: New Guinea

var nov	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 105-107, fig 3 [New Guinea]
	Hattori	1988	516	J Hatt Bot Lab 65: 426 [PNG]

eymae S.Hatt. 1975 578

Subgenus: Trachycolea

Typus: Indoonesia. West Irian. Paniai: Wissel Laboe Region (?), 1750m 1939, Eyma 4915

in hb L [holotypus: HLB959.261-024], in hb NICH [isotypus]

Basionym:

Distribution: China (Yunnan), New Guinea

spec nov	Hattori	1975	547	J Hatt Bot Lab 39: 284-246, fig 142
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 103-105, fig 2 [New Guinea]
	Hattori	1988	516	J Hatt Bot Lab 65: 426 [PNG]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 45, fig 4
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 387 [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 36-38, fig 3(9-14) [China, Yunnan]
	Bai	2002	1189	Chenia 7: 7, fig 3(9-14) [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1095, fig 509(9-14) [China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 24: Isotype. New Guinea, Wissel Lake Region, Boebeiro. 1750 m. /4-5/1939. P. J. Eyma 4915 (NICH 431997).
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 238(9-14) [key in Chinese]

falciloba Lehm. 1844 663

Subgenus: Trachycolea Ornithocephalae

Typus: Tasmania. "in Terra van Diemen" sd, Gunn

in hb S

Basionym:

Distribution: Australia (WA, QLD, NSW, ACT, VIC), Tasmania, New Zealand, Antipode Isl [New Zealand], Macquarie Isl [Australia], Lord Howe Isl

spec nov	Taylor ex Lehmann	1844	589	Pugillus 8: 20-21
spec nov	Hooker & Taylor	1844	289	London J Bot 3: 581 [as J. falciloba sub Frullania, Nees v Esenbeck] [van Diemen's Land]
	Taylor in G., L. & N.	1845	2850	Syn Hepat: 423
	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 160 [New Zealand]
	Gottsche	1856	23	Linnaea 28; 559 [leg. Müller & hb STUART]
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 81 [vide VERDOORN 1927]
	Gottsche	1858	1511	Bot Zeitung (Berlin) 16 (Beilage): 24 & 29
	Mitten in Hooker	1860	561	Antarctic voyage, III. Fl Tasmaniae 2: 237 [Tasmania]
	Hooker	1867	1154	Handbook New Zealand Flora: 536 [New Zealand, N Island]
	Gottsche in Mueller	1880	1489	Frag Phyt Australia 11, suppl Hepaticae :65
	Bastow	1888	845	Papers Proceed Roy Soc Tasmania for 1887: 262-263, pl 28 [Tasmania]
	Stephani	1889	940	Hedwigia 28: 158 [Australia]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 325
	Stephani	1910	686	Spec Hepat 4: 421
	Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 107 [Lord Howe Isl]
	Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 134 [Tasmania]
	Verdoorn	1929	246	Ann Bryol 2: 157 [misidented in S.L.1857 = Fr. squarrosa var. planescens]
	Martin	1946	1423	Trans Roy Soc New Zealand 76 (1): 49 [New Zealand, South Isl: Arthur Pass NP]
	Martin	1946	1423	Transact Roy Soc NZ 76(1): 49 [New Zealang; Arthur Pass National Park]
	Hodgson & Sainsbury	1948	885	Svensk Bot Tidskr 42 (3): 278 [Antipode Isl]
	Hodgson	1962	658	Rec Dominian Mus 4 (11): 124 [Antipode Isl]
	Bonner	1965	655	Index Hepat 5: 301
	Hamlin	1972	659	Rec Dominion Mus 7(19): 261 [New Zealand]
	Hamlin	1973	656	Rec Dominian Mus 8 (10): 143 [New Zealand]
	Allison & Child	1975	690	Liverw New Zealand: 208-209, fig(a-b)
	Hattori	1979	485	J Hatt Bot Lab 45: 336-337, fig 10(a-i) from isotype?
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 125-126
	Hattori	1983	499	J Hatt Bot Lab 54: 146 [synonyms listed]
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 172, fig 116 & 118 [NSW, QLD, TAS, VIC, WA, New Zealand]]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-206, microfiche 53 fig 3614 ["ab ipso Auctore, Original, Tasmania"] - 3615
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 34 & 143 [Australia: NSW, QLD, VIC, WA; Tasmania]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1987	400	Bryologist 90 (4): 365 [Lord Howe Isl]
	Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 157 [Checklist Tasmania]
	Hattori	1988	429	Nova Hedwigia Beih 90: 148 [Australia: NSW, QLD]
	Godley	1989	1334	New Zealand J Bot 27: 537 [Antipode Isl]
	Ramsay, Downing & Shofield	1990	1143	Cunninghamia 2(2): 301[Australia, NSW, Mt Tomah Bot Garden]
	Downing, Ramsay & Schofield	1991	1144	Cunninghamia 2(3): 378 [Australia, NSW, Jenolan Cave]
	Jarman & Fuhrer	1995	78	Mosses liverworts rainforest Tasmania: 86, 124, fig 72
	Glenny & Fife	1996	2422	Australasian bryol newsletter 34: 8 [Antipode Isl.]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Panama; misidentification]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Milne & Louwhoff	1999	753	Hikobia 13: 25-26 [on a myrtle beech, Nothofagus cunninghamii]
	Meagher	1999	2425	Australasian bryol newsletter 41: 8 [Tasmania, Flinders Isl.]
	Jarman & Kantvilas	2001	1157	Tasforests 13(2): 239 [Tasmania]
	Jarman & Kantvilas	2001	1161	Tasforests 13(2): 212 [Tasmania]
	Beckmann	2002	971	Australasian bryol Newsletter 45(May 2002): 9
	Setzepfand	2002	1159	Epiphytische Vegetation auf Weinmannia racemosa, Neuseeland [Diss]: 118 [New Zealand]

Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 244 [field guide, foto, Western Australia, Tasmania, Victoria, Australian Capital Territory, New South Wales]
Carthy	2003	1125	Flora Australia Suppl Ser 21: 43 [sub Fr falciloba]
Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 441 [chemosystematic; bibenzl-type]
Grove	2004	1160	Species list for the Warra LTER site: 12 [Tasmania]
Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 3rd of 6 pages [Key to Frullania of New Zealand; throughout] as Fr. falsiloba
NN	2004	1149	Australian Antarctic Data Centre, http://www.aad.gov.au [Macquarie
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
Nagashima, Toyota & Asakawa	2006	1463	Chem Pharm Bull 54(9): 1347-1349 [Bazzanane sesquiterpenoids]
McCarthy	2006	1385	Checklist Australian Liverworts [Australia WA QLD NSW ACT VIC TAS]
Engel, von Konrat, Glenny	2023	6397	Acta Biologica Plantarum Agriensis 11(1): 251, 1-4 [New Zealand, with key]

fallax Gottsche 1845 [non Austin ex Steph. 1911] 12

Subgenus: Homotropantha Fallaces

Typus: Indonesia. Java, cum Frullania integristipula sd, Junghuhn, sn.
ex hb BESCHERELLE, hb STEPHANI 213, in hb G

Basionym:

Distribution: Malaysia (Pahang), Indonesia (Sumatra, Banka, Java), Borneo

Gottsche in G., L. & N.	1845	2850	Syn Hepat: 432
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 83 [pp = Fr. integristipula var emarginata]
Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 538
Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 312 [Java, Banca, Halmaheira]
Sande Lacoste in Veth	1884	807	Midden Sumatra, Reizen en Onderzoekingen der Sumatra Expeditie, 4 (2): 44 [Sumatra]
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 325-326
Stephani	1911	686	Spec Hepat 4: 577 [= sgen Homotropantha]
Verdoorn	1928	242	Rev Bryol NS 1: 113, fig 3-4
Verdoorn	1929	245	Ann Bryol 2: 154 [Java]
Verdoorn	1929	246	Ann Bryol 2: 157 [SL 1857 pp = Fr. integristipula var emarginata]
Verdoorn	1930	293	Ann Bryol Suppl 1: 158-160, fig 272-273
Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 97; Java]
Hattori	1980	490	J Hatt Bot Lab 47: 195-197, fig 18-19
Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D- 3, microfiche 54 fig 3707 ["Java, leg Junghuhn"]
Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]

falsicornuta S.Hatt. 1986 677

Subgenus: Trachycolea

Typus: New Caledonia. Between Thio and Canala, 80m 17.8.1982, N. Kitagawa 23012
in hb NICH [holotypus]

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1986	506	J Hatt Bot Lab 60: 212-214, fig 4
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 24: Holotype. New Caledonia, between Thio and Canala. 80 m. 17 Aug. 1982. N. Kitagawa 23012 (NICH 388945).

faurieana fo. emarginata Kamim. 1952 684

Subgenus: Trachycolea

Basionym:

Distribution: Japan

	Kamimura	1938		in: Omi Hakubutsu Dokoaishi : 5, fig 1 [as Frullania spec.]
fo nov	Kamimura	1952	769	Acta Phytotax Geobot 14 (4): 109-110
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 124 [Shikoku]
	Bonner	1965	655	Index Hepat 5: 302 [Japan]

faurieana Steph. 1894 b [non Steph. 1910] 683

Subgenus: Trachycolea

Typus: Japan. Kurioshi 25.4.1887, Faurie 11b

ex hb PC, in hb G

as "fauriana", in honor of U.J. Faurie (1847-1915) and corrected in accordance with Arts. 60.8 & 60.9 (Shenzhen Code)

Basionym:

Distribution: China (Inner Mongolia), Taiwan, Korea (South), Japan (Honshu, Shikoku, Kyushu), Ryukyu (Amami, Okinawa), Sri Lanka, Philippines, New Caledonia

spec nov	Stephani	1894	228	Hedwigia 33: 144
	Stephani	1897	213	Bull Herb Boissier 5: 78 [Japan]
	Schiffner	1899	1510	Österr Bot Zeitschr 49 (11): 391 [Japan]
	Yoshinaga	1901	889	Bot Mag Tokyo 15: 93
	Paris	1906	676	Rev Bryol 33 (2): 28 [New Caledonia]
	Yoshinaga	1906	927	Bot Mag Tokyo 20: 52 [Japan]
	Iishiba	1908	929	Bot Mag Tokyo 22: 277 [Japan]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 25 [key to Japanese species, in Japanese]
	Paris	1910	1455	Rev Bryol 37 (6): 130 [New Caledonia: Ouaoueoue]
	Paris	1910	911	Rev Bryol 37 (1): 41 [New Caledonia: Isle of Pines]
	Stephani	1910	686	Spec Hepat 4: 402 [Japan, Formosa, China, Philippinae]
	Stephani	1910	217	Denkschr K Akad Wiss, Math Nat Kl, Wien 85: 196-197 [Neu-Pommern]
	Stephani	1911	686	Spec Hepat 4: 464 [Philippines]
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Horikawa	1934	34	J Sci Hiroshima Univ, ser B, div 2, 2: 241 [Japan, Taiwan]
	Horikawa in Asahina	1939	2872	Nippon Inkwasyokubutu Dukan: 855, pl 410 (6-10) [vide 873]
	Hattori	1951	528	J Hatt Bot Lab 5: 64
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 123-124
	Kamimura	1952	769	Acta Phytotax Geobot 14 (4): 109
	Hattori	1952	529	J Hatt Bot Lab 8: 29
	Hattori	1953	530	J Hatt Bot Lab 10: 35-37, fig 47(a-l) [specimens from Japan & Philippines belong to different species]
	Hong & Yoo	1961		Hikobia 2: <244-252> [aus 717]
	Kamimura	1961	199	J Hatt Bot Lab 24: 41, fig 15(12-18), map 4
	Iverson	1963	531	J Hatt Bot Lab 26: 123 [Japan, Formosa, Philippine Is.]
	Bonner	1965	655	Index Hepat 5: 302
	Hong	1966	1107	Bryologist 69 (1): 411 [South Korea]
	Amakawa	1967	1931	Biol Fukuokana 7: 49
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 203 [Ryukyu Arch.]
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 37 [Ryukyu: Okinawa]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 733 [South Korea]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 254-255 [Japan]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: [aus 717]
	Choe	1983		J Sci Educ 15: <147-156> [aus 717]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-233, microfiche 53 fig 3652 ["Japan, Kuroishi, Faurie 11B"] - 3653
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-128, microfiche 52 fig 3518 ["Philippinen, Caramuan, Micholitz, Diagnose an Rechinger 1908"]
	Hattori	1986	506	J Hatt Bot Lab 60: 234 [not in New Caledonia]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 335 lectotype was not explicitly selected, Hattori 1974: the extra-Japanese specimens so named by Stephani are F. berthoumieui
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 40 [annotated catalogue of China]
	Bai	1993	1225	Chenia 1: 94 [China, Inner Mongolia]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 13-16, fig 11(a-p) [Japan, keys to species; in Japanese]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 14 [Checklist of liverworts of Russia: ? FAR EAST, record by Brotherus 1905 from Amur seems to be erroneous]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

fengyangshanensis R.L.Zhu & M.L.So 1997 2107

Subgenus: Trachycolea

Typus: China. Zhejiang, Fengyangshan Nature Reserve, Shibaku, ca. 1430m 1.11.1996, Zhu 961118
in hb HSNU (Zhu 961118) [holotypus], (Zhu 9611110, 92240, 9611130) [paratypuss)

Basionym:

Distribution: China

spec nov	Zhu & So	1997	684	Bryologist 100: 356-358 [China)

ferdinandi-muelleri Steph. 1910 685

Subgenus: Trachycolea Orientalis

Typus: Australia. New South Wales, Richmond River, Tintenbar 2.8.1900, W.W. Watts 153
in hb G 18211(ex hb LEVIER 2628) [holotypus] - in hb NSW 250737 [isotypus]

Basionym:

Distribution: Australia (NSW, QLD)

spec nov	Stephani	1910	686	Spec Hepat 4: 417-418 ["Ferdinandi Mülleri"]
	Bonner	1965	655	Index Hepat 5: 303
	Bonner	1965	655	Index Hepat 5:
	Hattori	1979	485	J Hatt Bot Lab 45: 337-339, fig 11(a-j) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-208, microfiche 53 fig 3618 ["Frullania Ferd. Mülleri, N.S.Wales, Watts 2628"]
	Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 34 & 143 [Australia: NSW]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1988	429	Nova Hedwigia Beih 90: 149 [Australia: QLD]
	Windolf	1989	1026	Austrobaileya 3(1): 104 [Queensland]
	Brown, Ramsay & Seur	1992	1140	Telopea 5(1): 75 [types in hb NSW]
	NN	2000	1085	http://plantnet.rbgsyd.nsw.gov.au/HerbLink/NSWtypes/srch.html [isotype in NWS]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 43 [Australia (NSW, QLD)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW]

fertilis De Not. 1855 686

Subgenus: Microfrullania F. magellanica complex

Typus: Chili. Valparaiso sd, Puccio

in hb FH, ex hb DE NOTARIS
in hb HBG "Various new species of Jung. from Dicrana,mostly Chiloscyphus, Cape U.S.Ex.Ex." > see Hässel de Menéndez 1986

Basionym:

Distribution: Chile (Magallanes), Argentina (Tierra del Fuego, Patagonia)

spec nov	Notaris	1855	5341	Jungermanniearum Americanarum pugillus [Seperata]: 29-30, fig 20(1-6) [spec nov]
	Notaris	1857	558	Mem Reale Accad Sci Torino, ser 2, 16: 235-236, fig 20(1-6) [spec nov]
	Massalongo	1895	875	Nuovo Giorn Bot Ital 17: 245-246 [Tierra del Fuego]
	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 67 [Chile]
	Stephani	1901	799	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (17): 32 [from South Patagonia]
	Stephani	1911	686	Spec Hepat 4: 667-668
	Stephani	1911	721	Kungl Svenska Vetenskapsakad Handl 45 (9): 88 [Chile: Brunswick Penins]
	Massalongo	1927	1060	Atti Real Ist Veneto Sci 87 (2): 217 [Argentina, Spegazzinius legebat]
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 166 [Patagonia, Tierra del Fuego]
	Kühnemann	1949	657	Lilloa 19: 354 [Argentina: Patagonia, Tierra del Fuego]
	Arnell	1956	881	Svensk Bot Tidskr 50 (2): 309 [Chile]
	Clark & Palm	1961	396	Bryologist 64: 78-80, fig 1-26 [= Fr fertilis]
	Bonner	1965	655	Index Hepat 5: 303
	Engel	1978	182	Fieldiana Bot 41: 237 [syn sub Fr. magellanica]
	Hässel de Menéndez	1983	48	Lindbergia 9: 93-98 [seperate species, distinctive features]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-43ab, microfiche 49 fig 3280 ["Chile, nach Original gezeichnet"] - 3281 ["Staten Island ..."]
	Hässel de Menéndez	1986	2510	Bryologist 89(4): 295 [in hb HBG]
	Engel	1988	111	Fieldiana Bot NS 25: 162-163 [syn sub Fr. magellanica]
	Feuerer	2008	2517	in hb HBG: http://www.biologie.uni-hamburg.de/bzf/herbar/hbg_bryophytes.htm
	Carter et al	2017	4326	Molecular Phylogenetics and Evolution 107 :23-24 [F. magellanica complex: magellanica & fertilis]

flexuosa S.Hatt. 1983 692

Subgenus: Trachycolea

Typus: Australia. Queensland sd, s coll

in b L (hb LUGD BAT 40 Austral 939.2898) [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution: Australia (QLD)

spec nov	Hattori	1983	499	J Hatt Bot Lab 54: 146-148, fig 56 [closely related to Fr. rubella STEPH]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 34 & 143 [Australia: QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1988	429	Nova Hedwigia Beih 90: 149 [Australia: QLD]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 43 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]

formosa Spruce 1884 [non Steph. 1911] 693

Subgenus: Meteoriopsis Intumescentes

Typus: Andes Quitenses, flum. Bombonasa sd, Spruce

in hb MANCH [holotypus]
in hb NY [isotypus]
in hb E E00002532 [isotypus]

Basionym:

Distribution: Colombia, Ecuador

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 44 & 46-47
	Stephani	1911	686	Spec Hepat 4: 522
	Bonner	1965	655	Index Hepat 5: 305
	Stotler	1969	4761	Nova Hedwigia 18: 460-461, pl 24(210-217)
	Stotler	1970	194	The genus Frullania, separata: 460-461, pl 24(210-217)
	Drehwald	2003	2813	Cambios en la vegetación briofítica: 283 [Ecuador (Parque Nacional Sangay)]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 361-364 [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [new to Colombia]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 366 [key -Ecuador, Colombia]

fragilifolia (Taylor) Gottsche, Lindenb. & Nees 1845 [non Austin 1879] 694

Subgenus: Frullania Microphyllae

Basionym: Jungermannia fragilifolia Taylor 1843

Distribution: Iceland, England, Ireland, Norway, Luxemburg, Netherlands, Germany, Austria, Polen, Slowakia, Tschechian Rep., Albania, Bulgaria, Hungary, Slovenia, Croatia, Bosnia-Herzegowina, Portugal, Greece, Corsica [France], Sardinia [Italy], Balearic Isl [Spain], Azores [Portugal], Canary Isl (Go Pa Te)[Spain], Turkey

spec nov	Taylor in G., L. & N.	1845	2850	Syn Hepat: 437-438 (No 59)
	Dumortier	1874	580	Bull Soc Roy Bot Belgique 13: 28 [synonyms]
	Lindberg	1875	1582	Acta Societatis Scientiarum Fennicae 10: 476
	Pabst	1877	1165	Cryptogamen-Flora Deutschlands, Lebermoose: 34
	Stephani	1879	224	Bericht Bot Verein Landshut 7: 152-153, fig 117
	Corbiere	1889	1704	Mem Soc Nat Sci Nat Math Cherbourg 26: 344 Mémoires de la Société Nationale des Sciences Naturelles et Mathématiques de Cherbourg >
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134
	Dalla Tore & Sarnthein	1904	2694	Die Moose (Bryophyta) von Tirol, Vorarlberg und Lichtenstein: 90
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134
	Cavers	1907	897	Naturalist 1907 (Jan/Feb): 11-16 & 46-49 [Yorkshire]
	Stephani	1911	686	Spec Hepat 4: 569
	Migula	1932	179	Lebermoose Torfmoose, Stuttgart: 39 [Germany, key]
	Jorgensen	1934	225	Bergens Mus Skrift 16: 330-331, map 12c [Norway]
	Schiffner	1936	2561	Krit Bemerk europ Leberm, ser 21: 6-7 [Hepat europ exsicc, nr. 1007-1012]
	Müller	1938	642	Mitt bad Landesver Naturkunde Naturschutz NF 3 (29/30): 439 [Feldberg, Black Forest in Germany]
	Ade & Koppe	1942	206	Hedwigia 81 (1/2): 34 [Tenerifa = Fr. microphylla var deciduifolia, vide Grolle 1970]
	Gaume	1955	956	Rev Bryol Lichen NS 24 (1/2): 21 [France; Bretagne]
	Arnell	1956	43	Moss Flora of Fennoscandia: 257 [Norway]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1240-1243, fig 483
	Arnell	1961	180	Svensk Bot Tidskr 55 (2): 391 [Canary Isl, Tenerife = Fr. mircrophylla var deciduifolia, vide Grolle 1970]
	Zerov	1964	2658	Flora of Hepatics, Sphagnum and Mosses of the Ukraine, p. 281-282, fig 197 [Ukraine]
	Virchenko & Vana	1964	2673	A list of liverworts, hornworts and peat mosses of Ukraine, p. 11 [Ukraine]
	Petrov	1964	1214	Mitt Bot Inst Acad Sci Bulgarie 13: 161-164 [Bulgaria]
	Bonner	1965	655	Index Hepat 5: 306
	Bertsch	1966	617	Moosflora von SW-Deutschland:185-187 [key to SW-Germany]
	Maurer	1970	114	Herzogia 1: 449 [Austria, Steiermark]
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 311-312 [key to europa & macaronesia]
	Grolle	1976	183	Feddes Repert 87 (3/4): 194 [types]
	Szweykowski & Kozlicka	1977	1096	Atlas geograph distr spore-plants Poland, ser IV, part IX: 25, map [H. 241; altitude range & map of Poland, world map]
	Düll & Koppe	1978	151	Dechenia 131: 67 [red list of Nordrhein-Westfalen]
	Bischler, Jovet-Ast & Baudoin	1980	149	Crypt Bryol Lichen 1 (3): 255 [Albanien]
	Eggers	1982	22	Crypt Bryol Lichen 3 (4): 288 [Macaronesia ?]
	Grolle	1983	144	J Bryol 12: 421 [checklist Europe]
	Frahm & Frey	1983	178	Moosflora, UTB 1250, Stuttgart: 146-147, fig 35 (4) [key to Germany)
	Düll	1983	620	Bryol Beitr 2: 67 [Europe & Macaronesia]
	Reinosa & Alvarez	1984	1325	Acta Cient Compostelana 21: 275 [Spain]
	Indurain	1984	2267	Pub. Biol. Univ. Navarra. S. Bot. 5: 16 [Spain, Navarra]
	Puijm	1985	1204	Lindbergia 11: 167-168 [Netherlands]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-191ab, microfiche 60 fig 4145 ["Oberburg, Steiermark, 800m, Breidler 1882"] - 4146 ["Steiermark, Oberburg, 1000m, Breidler 1882"]
	Bisang	1985	102	Bot Helvetica 95 (2): 247-278, map [Switzerland]
	Indurain	1986	2270	Pub. Biol. Univ. Navarra. S. Bot. 6: 5 [Spain, Navarra]
	Bisang	1987	98	Herzogia 7: 407-458 [Switzerland, all Frullania species, ecology]
	Puche, Herrero-Borgonon & Casan	1987	816	Act VI Simp Nac Bot Cript: 579 [Spain]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 257 [key to Europe & Macaronesia], fig 6
	Sim-Sim	1989	6	Portug Acta Biol (B) 15: 363 [Portugal]
	Werner & Hans	1990	611	Bull Soc Nat Luxemb 90: 138 [Luxembourg]

	Smith	1990	177	Liverwort Britain & Ireland: 251[key], 255-256, fig 113
	Berg & Wiehle	1992	969	http://home.t-online.de/home/cberg/bryorl.htm [printed 09.05.2003 13:31] page 14 of 39 pages [Germany: Mecklemburg-Vorpommern]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): 4-5
	Düll	1995	303	Bryol Beitr 10: 12 [Greece]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 114 [key to european species]
	Schmidt	1996	264	Bryol Mitt 1: 7 [Germany: Westfalen]
	Long, D. D. & Ratcliffe, D. A.	1996	272	J Bryol 19: 97
	Schumacker & Soldan	1997	1348	Ibex 4: 36 [Italy, Gran Paradiso NP]
	Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
	Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
	Casas	1998	768	Orsis 13: 20 [checklist Spain]
	Puche, Gimeno & Segarra	1998	990	Orsis 13: 38 [Spain, Valencia]
	Johannsson	1999	1211	Fjölrit Náttúrufraedistofnunar 38: 99, fig 64, map 63 [Iceland]
	Duell	1999	1048	Contrib Bryofl Yugoslavia Bulgaria: 100 [Croatia]
	Ganeva & Duell	1999	1046	Contrib Bryofl Yugoslavia Bulgaria: 118 [Bulgaria]
	Pavletic, Martincic & Duell	1999	1045	Contrib Bryofl Yugoslavia Bulgaria: 9 [Slovenia, Croatia, Bosnia-Herzegowina]
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 114-117, fig 17(a-m), 18 [Portugal, Madeira]
	Aicardi	1999	810	Bull Soc Bot Centre-Ouest, NS 30: 443 [France]
	Hugonnot in Aicardi	1999	810	Bull Soc Bot Centre-Ouest, NS 30: 448 [France]
	Paton	1999	828	Liverwort flora British Isles: 473, fig 235
	Aicardi, Blondel, Chesnoy & Fesolowicz in Aicardi	1999	810	Bull Soc Bot Centre-Ouest, NS 30: 444 [France]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia]
	Sabovljevic	2000	773	Lindbergia 25 (1-2): 132 [Yugoslavia]
	NN	2000	1928	Census list of Irish liverworts [Ireland]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Infante	2000	1035	Guineana 6: 214-215 [map, País Vasco] & 324
	Meinunger & Schröder	2001	1693	Naturschutzreport 18: 302 [Germany, Thuringia - red list: R = extrem rare]
	Sabovljec, Ganeva, Tsakiri & Stefanut	2001	1296	Biol Conservation 101: 79 [not threatened in Europe; conservation interest in Albania, Bulgaria, Hungary, Greece, Romania & Slovenia]
	Grims	2001	1136	Moosherbar in hb LINZ [Internet]
	Dierssen	2001	779	Bryophyt Bibl 56: 216 [ecology in European bryophytes]
	Izquierdo Zamora	2001	2885	Lista especies silvestres Canarias, banco datos bidiversidad: 89 [Canarias: P G T]
	Frahm	2001	1353	Limprichtia 19: 24, map [Vosges]
	Söderström, Hassel & Weibull	2002	2672	Distribution maps - Northwestern Europe, vol 1: 20 [map]
	Geisller, Bagutti, Bisang, Müller, Schnyder, Schubiger-Bossard & Urmi	2002	1003	Herzogia 15: 200-201, fig 9 [distribution & map of Switzerland and Lichtenstein]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	Sergio & Draper	2002	1341	Portug Acta Biol (B) 20: 40-41 [evaluation of taxonomy]
	Zechmeister, Tribsch, Moser & Wrbka	2002	1295	Biol Conservation 103: 180 [IUCN threat category in Austria: 3, VU, ! 47]
	Sonnenburg, Gerken, Wagner & Ebersbach	2003	2749	LÖBF-Mitteilungen 4/03: 38 [Hutewaldprojekt im Naturpark Solling-Vogler]
	NN	2003	1264	http://www.mapmate.co.uk/checklist/frullaniaceae.htm [checklist of UK]
	Johannsson	2003	1008	Fjölrit Náttúrufraedistofnunar 44, http://www.floraisland.is/mosalisti.htm [Iceland]
	Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 165 [annotated checklist of Portugal]
	Ganeva & Natcheva	2003	1299	Crypt Bryol 24 (3): 231 [Bulgaria]
	Erzberger &Papp	2004	1326	Studia Bot Hung 35: 102 [Hungary]
	Bischler	2004	1103	Bryophyt Bibl 61: 121 [Mediterranean], fig 30 [map]
- syn nov	Szweykowski	2006	2547	Checklist of Polish Liverworts and Hornworts: 28 [Poland]
	Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 109 [Madeira, annotated catalogue]
	Frahm, Stapper & Franzen-Reuter	2007	2406	KRdL Schriftenreihe Band 40: ohne Nr, [Umweltgütezeiger E: 8 = sehr empfindliche Art], pl. 20.
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries]
	NN	2008	1929	Synoptic list of the Bryophytes of Ireland [Ireland]

	Ezer, Kara & Düzenli	2008	1677	Crypt Bryol 29(2): 2003-206 [Turkey]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 14 [Checklist of liverworts of Russia: EUR]
	Casus, Brugués, Cros, Sérgio, Infante	2009	1983	Handbook Liverw Iberien penins & Bal Isl., 146, fig53(6) [Iberian Peninsula]
	Lima, Dirkse, Núñez & González Mancebo	2009	1262	Lista especies silvestres Canarias,108 [Canarias: P G T]
	Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 71-72 [ecology]
	Erzberger & Klawitter	2010	2114	Verh Bot Ver Berlin Brandenburg 142; 247-249 [new to Brandenburg]
	Stern	2010	2703	Atlas of the Bryophytes of South Hampshire: 8 [map]
	Papp, Erzberger, Ódor, Hock, Szövényi, Szurdoki & Tóth	2010	2852	Studia bot. Hung. 41: 35 [checklist Hungary, status EN Endangered]

franciscana M. Howe 1894 699

Subgenus: Frullania

Typus: USA. California, Marin Co., Mill valley & Olema 31.3.1894, Howe 29

in hb US

Basionym:

Distribution: Alaska, Canada (BC), USA (CA OR WA West coast)

spec nov	Howe	1894	570	Erythea 2: 99-101, pl 1(a-j), 2(a-k)
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 26-28, pl 13(1-8)
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 47 [Alaska]
	Stephani	1911	686	Spec Hepat 4: 565-566
	Sanborn	1929	3503	Univ Oregon Publ Pl Biol 1(1): 90-91, pl 4(12) [Oregon]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 753-755, fig Frf(1-15)
	Bonner	1965	655	Index Hepat 5: 307
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 528 [syn nov sub Fr tamarisci ssp nisqualensis]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-192ab, microfiche 60 fig 4147 -4149 ["(Olympia, California, leg Miss Blackler, ex Herb Levier"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-192c, microfiche 60 fig 4150 ["syn Frull insciflora G ms, California coast, Bolander, ... Evans"]
	Hong	1989	689	Bryologist 93 (3): 364-365 [key to N-American species]
	Schofield	1994	263	Hikobia 11: 413, distribution map = fig 3 : 410 [Canada: BC]
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 15 of 35 [in hb US]
	Rambo & Muir	1998	731	Bryologist 101: 120 [USA: Oregon]
	Qian & Klinka	1998	2262	Plants of British Columbia: 339 [Canada]

fuegiana Steph. 1910 703

Subgenus: Trachycolea Trachycolea

Typus: Chile, Tierra del Fuego, Rio Fontaine sd, Skottsberg 529

in hb G

Basionym:

Distribution: Argentina (Tierra del Fuego)

spec nov	Stephani	1910	686	Spec Hepat 4: 428
	Stephani	1911	721	Kungl Svenska Vetenskapsakad Handl 45 (9): 88 [Argentina: "Feuerland"]
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 166 [Tierra del Fuego]
	Kühnemann	1949	657	Lilloa 19: 354 [Argentina: Tierra del Fuego]
	Bonner	1965	655	Index Hepat 5: 307
	Hassel de Menendez & al.	1984		
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 94, microfiche 51 fig 3475 [from type; "Fuegia, Skottsberg 529"]
	Hassel de Menendez & Solari	1985	4660	Catálogo de las Hepáticas, -In: Boelcke, O., Moore, D.M. & F.H. Roig (eds.) <299-342)
	Greene & al.	1985		
	Hässel de Mendendez & Rubies	2009	2273	Nova Hedwigia, Beihefte 134: 139-140

fugax (Hook.f. & Taylor) Gottsche, Lindenb. & Nees 1845 704

Subgenus: Trachycolea Australes

Typus: New Zealand, sd, Taylor

On Rimelia (Parmelia) reticulata, 1844, J. D. Hooker (ex herb. Lehm., S!) (lectotype here designated [packet of lower right hand corner on sheet]). Hentschel 2015

Basionym: Jungermannia fugax Hook.f. & Taylor 1845

Distribution: Australia (QLD, NSW), New Zealand

spec nov	Taylor in G., L. & N.	1845	2850	Syn Hepat: 445 (No 73)
	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 161-162, pl 104(5) [New Zealand]
	Hooker	1867	1154	Handbook New Zealand Flora: 537 [New Zealand, N Island]
	Bailey	1888		A Synopsis of the Queensland Flora , Second Supplement, Brisbane: <67-78> [Queensland]
	Stephani	1889	940	Hedwigia 28: 158 [Australia]
	Watts	1902	1909	Proc Linn Soc New South Wales 27 (2):
	Stephani	1910	686	Spec Hepat 4: 406 [as Trachycolea]
	Watts	1912	1940	unpublished Msc
	Bailey	1913	3470	Compreh catalogue Queensland plants: 675 [Queensland]
	Pearson	1923	796	Univ California Publ Bot 10 (4): 325-326, pl 100 (1-16) [New Zealand]
	Bonner	1965	655	Index Hepat 5: 307
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Hattori	1983	499	J Hatt Bot Lab 54: 148-150, 153-156, fig 57 [key to fugax & media]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-262, microfiche 54 fig 3684 ["N Zealand, Great Barrier isl, Kink 213"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 34-35 & 143 [Australia: NSW, QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland; report by Bailey 1888 may be Fr baileyana]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 104, 105 [New Zealand (North Isl); rare epiphyllous]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 43 [Australia (QLD, NSW)]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 441 [chemosystematic; triterpene-type]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 5th of 6 pages[Key to Frullania of New Zealand]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW]
	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 135 [(lectotype here designated [packet of lower right hand corner on sheet]).]

fulfordiae S.Hatt. 1987 706

Subgenus: Trachycolea Australes

Typus: Australia. [NSW] Lord Howe Isl, 0-400m 15.11.1981, Vitt 28318

in hb NICH [holotypus], in hb ALTA [isotypus]

Basionym:

Distribution: Lord Howe Isl

spec nov	Hattori	1987	400	Bryologist 90 (4): 365-367, fig 1-8 [close to Fr.yorkiana]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 112 [not in Australia, only from Lord Howe Isl]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 24: Holotype. Lord Howe I., North end of Island. 1-400 ft. 15 Nov. 1981. D. H. Vitt 28318 (NICH 408342).

fusca Steph. 1894 1307

Subgenus: Diastaloba

Typus: Usambara, Handei-Maromboi [Trockener Hochwald] 10.8.1893, C. Holst 9037a
ex hb B, in hb G

Basionym:

Distribution: East Africa, Madagascar

spec nov	Stephani	1894	228	Hedwigia 33: 163
	Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 65 [Usambara]
	Stephani	1911	686	Spec Hepat 4: 628-629
	Bonner	1965	655	Index Hepat 5: 308
? syn nov	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 33-38
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B- 8, microfiche 48 fig 3234-3235 [from type; "Usambara leg Holst 9037a"]
	Grolle	1995	250	Bryophyt Bibl 48: 65
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

fuscovirens var. gemmipara (R.M.Schust. & S.Hatt.) S.Hatt. & P.J. Lin 1985 713

Subgenus: Trachycolea

Basionym: Frullania gemmipara R.M.Schust. & S.Hatt. 1978

Distribution: China (Yunnan, Sichuan, Fujian)

comb nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 135
	Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [new to Sichuan]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 400 [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 38 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 7 [Yunnan, China]
	Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, new to Fujian Prov.]

fuscovirens Steph. 1910 711

Subgenus: Trachycolea

Typus: Korea. Quen San -.8.1901, Faurie 1047
in hb G 14414

Basionym:

Distribution: China (Yunnan, Hainan, Guangxi, Zhejiang, Sichuan), Korea

spec nov	Stephani	1910	686	Spec Hepat 4: 401
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Bonner	1965	655	Index Hepat 5: 308-309
	Hattori	1980	489	J Hatt Bot Lab 47: 119-120, fig 236 [comb nov as Fr. valida var. fusco-virens]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-236, microfiche 53 fig 3656 ["Korea, Faurie 1047"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 134-135 [Fr. valida var fusco-virens = Fr. fusco-virens]
	Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 67 [China, Hainan]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 400, fig 199(7-12) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 38 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 7 [Yunnan, China]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1105, fig 515(7-12) [China]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 14 [Checklist of liverworts of Russia: FAR EAST, identification on a steril plant is doubtful]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 241(7-12) [key in Chinese]

gabonensis Vanden Berghen 1976 1019

Subgenus: Diastaloba Diastaloba I

Typus: Gabon. Pays Apindji, Nzamba. "Sur les racinezs d'une orchidée épiphyte, à 30m de hauteur" 28.10.1924, Le Testu sn
in hb PC PC0103313 [holotypus]
in hb VANDEN BERGHEN [isotypus]

Basionym:

Distribution: Cameroon, Gabon, Malawi, Madagascar

spec nov	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 81-83, fig 20
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 349 [map of Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 211 [key to Madagascar]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar]
	Grolle	1995	250	Bryophyt Bibl 48: 65 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 88 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2001	1079	Trop Bryol 20: 94 [foliicolous taxa of Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Cameroun, Gabon, Madagascar] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Cameroun, Gabon, Madagascar] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 220, fig 141(A-F) [West Africa]

gaoligongensis X.L.Bai & C.Gao 1999 2132

Subgenus: Trachycolea

Typus: China, Yunnan, Bijang, Gaoligong Mt., Gulang 29.7.1978, Mu Zang 5620
in hb KUN-C [holotypus]

Basionym:

Distribution: China (Yunnan)

spec nov	Bai & Gao	1999	752	Hikobia 13: 87-88, fig 1(1-12)
	Bai	2001	1742	Guizhou Science 19(4): 38, fig 4(1-12) [China, Yunnan]
	Bai	2002	1189	Chenia 7: 7, fig 4(1-12) [Yunnan, China]

gaudichaudii (Nees & Mont.) Nees & Mont. 1845 771

Subgenus: Saccophora

Typus:

N. et M.

Basionym: Jubula gaudichaudii Nees & Mont. 1836

Distribution: South Africa, Guyana, Brazil, China (Yunnan, Hainan), Taiwan, Japan, Ryukyu (Amami, Okinawa, Ishigaki), Pakistan, India (North: West Bengal (Darjeeling); South India), Andaman Isl [India], Niccobar Isl [India], Sri Lanka, Sikkim, Thailand, Singapore, Malaysia (Selangor, Pahang, Sarawak, Sabah), Borneo, Indonesia (Sumatra, Java, Bali, Sulawesi, Ceram, Ambon), Philippines (Luzon), New Guinea, Tasmania, Auckland Isl [New Zealand], Bismarck Arch (Admirality Isl), Vanuatu (Aneityum), Micronesia [=Caroline Isl] (Ponape), Palau Isl, Guam, Samoa, Fiji (Taveuni, Vanua Levu)

spec nov	Nees & Montagne in G., L. & N.	1845	2850	Syn Hepat: 435
	Montagne	1845	1591	Voyage au pole sud 1837-40, Paris, 3 Botanique, vol 1 Cryptog: 224-225
	Mitten in Hooker	1860	561	Antarctic voyage, III. Fl Tasmaniae 2: 237 [Tasmania]
	Mitten in Seemann	1871	637	Flora Vitiensis: 417 [Aneitum]
	Gottsche in Mueller	1880	1489	Frag Phyt Australia 11, suppl Hepaticae :65
	Mitten	1885	1745	Rep Challenger Exp Botany 1 (3): 263 [Admirality Islands]
	Bastow	1888	845	Papers Proceed Roy Soc Tasmania for 1887: 266 [Tasmania]
	Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 223
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 326
	Schiffner & Stephani in Schumann & Lauterbach	1901	1493	Flora Deutsch Schutzgebiete: 78
	Stephani	1911	686	Spec Hepat 4: 523-524 [= sgen Frullania]
	Merrill	1914	1484	Philippine J Sci C, Bot 9(1): 40 [Guam]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 91-94, fig 157-161
	Verdoorn	1930	549	Nova Guinea 14 (4): 544
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 88; Java]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 494 [Sumatra, Borneo]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 59 [Java]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 205 [Java, Malay Peninsula, Sarawak, Philippinen]
	Verdoorn	1937	556	Blumea suppl 1: 212 [Fiji Isl]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 317 [Borneo, Sarawak]
	Hattori	1952	1508	J Jap Bot 27(10): 316-317 [Japan]
	Miller	1960	920	Bryologist 63: 121 [Micronesia]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: SI]
	Bonner	1965	655	Index Hepat 5: 310
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 525
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 203-204 [Ryukyu Arch.]
	Miller	1968	672	Micronesia 4 (1): 74 [key to Guam & Northern Micronesia]
	Stotler	1969	4761	Nova Hedwigia 18: 449-450, pl 15(:509)
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 37 [Ryukyu: Okinawa, Ishigaki]
	Shin	1970	150	Sci Rep Kagoshima Univ 19: 25 [Ryukyu: Amami Isl]
	Stotler	1970	194	The genus Frullania, separata: 449-450, pl 15(:509)
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Hattori	1972	538	J Hatt Bot Lab 36: 123-128 [gaudichaudi-Komplex], fig 10-13
	Grolle & Schultze-Motel	1972	537	J Hatt Bot Lab 36: 83 [Samoa]
	Hattori	1974	544	J Hatt Bot Lab 38: 177 [Luzon]
	Hattori	1975	547	J Hatt Bot Lab 39: 287
	Hattori	1976	80	J Hatt Bot Lab 40: 475
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Formosa]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 445 [Thailand]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Hattori	1981	492	J Hatt Bot Lab 49: 372
	Hattori	1981	492	J Hatt Bot Lab 49: 373-375 [key to Fr. immersa & Fr. gaudichaudii]
	Hattori	1982	495	J Hatt Bot Lab 51: 242
	Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 15 [Fiji], fig 2(e-f) [key to gaudichaudi & immersa]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-109, microfiche 58 fig 4033 ["Brasilia, Rio Janeiro, leg Gaudichaud, nach Original Zeichnung Gottsche; NB: die Pflanze (angeblich) aus Tasmanien ist völlig identisch & stammt wahrscheinlich aus Rio Janeiro"]

Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 107 [New Guinea]
Hattori	1986	507	J Hatt Bot Lab 60: 242 [Ceram]
Scott & Bradshaw	1986	56	Brunnonia 8 (1): 35 & 143 [Tasmania]
Hattori in Piippo	1986	946	Ann Bot Fennici 23: 10 [New Guines, Frieda R]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 41
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302 [Philippines]
Hattori	1986	506	J Hatt Bot Lab 60: 234
Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 158 [Hattori per comm (III): doubts occurrence in Australia & Tasmania]
Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [Guyana]
Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Lin, Li, Wu & Li	1994	1230	Chenia 2: 67 [China, Hainan]
Koike	1994	37	J Hatt Bot Lab 75: 184 [Micronesia]
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Eastern Himalaya, South India, Nicobar Isl]
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana]
Nath & Asthana	1998	683	J Bryol 20(1): 233 [South India]
Nath & Asthana	1998	708	J Hatt Bot Lab 85: 72-75, fig 6(1-12) [South India, Andaman & Nicobar Isl; key to all spec.]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 151 [Yunnan, China]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 427 [China, Yunnan]
Yuzawa	2000	1659	Natural Environmental Sci Res 13: 14, fig 10(a-l) [Japan, keys to species; in Japanese]
Bapna & Kachroo	2000	712	Hepaticology in India II: 189-190, fig 172(a-d)
Bai	2001	1742	Guizhou Science 19(4): 49 [China, Yunnan]
Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 280, pl 165(1-2) [with key to Japan, in Japanese]
Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 1& 2 [initial branching appendages]
Joshi	2001	1372	Perspectives Indian Bryology: 135-148 [Andaman Islands]
Piippo, He, Juslen, Tan, Murphy & Pocs	2002	1002	Ann Bot Fennici 39: 114 [Singapore]
Bai	2002	1189	Chenia 7: 21-22 [Yunnan, China]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 87 [Brazil]
Carthy	2003	1125	Flora Australia Suppl Ser 21: 43 [Australia (TAS)]
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
McCarthy	2006	1385	Checklist Australian Liverworts [Australia TAS]
Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Pantropical, lowland & montane]
Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Haerida	2015	4229	Floribunda 5(2): 72 [Bali, with key]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 83-84, fig 39(a-e) [checklist & revision of genus Fullania, Thailand]
Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]
Lima	2019	5121	Frullania no Brasil [Thesis]: 185-186, fig. 23(a--n), fig 24 [distribution]

gaudichaudii fo. hasseltii (Sande Lac.) Verd. 1930 1039

Subgenus: Saccophora

Basionym: Frullania hasseltii Sande Lac. 1884

Distribution: Indonesia (Sumatra), Philippines

comb nov	Verdoorn	1930	293	Ann Bryol Suppl 1: 94-95, fig 140, 162 [Sumatra, Philippinen]
	Bonner	1965	655	Index Hepat 5: 310 [Sumatra, Philippines]
	Miller, Whittier, Whittier	1983	609	Bryophytorum Bibliotheca 25: 127 [fo. hasseltii nicht enthalten]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302 [Philippines], reference to Miller at al 1983

gemmulosa S.Hatt. & Thaithong 1977 1041

Subgenus: Trachycolea

Typus: Thailand. Chiangmai, Doi Suthep-Doi Pui, 1600-1685m NK 3297

in hb NICH [holotypus], in hb KYO [isotypus]

Basionym:

Distribution: China (Yunnan), India (North: Assam, Meghalaya), Laos, Thailand

spec nov	Hattori & Thaithong in Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 449-451, fig 2 (a-o) [close to Fr. retusa] [Thailand]
	Hattori & Thaithong	1978	128	J Jap Bot 53 (6): [according Hattori 1980 found in Laos and published here; but in this paper not mentioned]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 183 [India, Assam]
	Hattori	1980	489	J Hatt Bot Lab 47: 122-123, fig 239(a-e) [India, Assam & Laos]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 151 [new to Yunnan, China]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 171
	Bai	2001	1742	Guizhou Science 19(4): 38 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 9 [Yunnan, China]
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 275, map 11 - Unpublished thesis.
	Kornochalert	2006	2327	Thesis: Thailand, Doi Suthep-Pui National Park, Chiang Mai Province: 113-114, fig 33(1-10) & 66 (foto)
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 75, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 24: Holotype. Thailand, Payap, Chiangmai, Doi Suthep. 1600-1685 m. 23 Dec. 1965. N. Kitagawa 3297 (NICH 354404).
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 38-39, fig 14(a-g) [checklist & revision of genus Fullania, Thailand]

gibbosa var. major Gottsche 1863 1930

Subgenus: Incertae sedis

Typus: Mexico. Orizaba Fr. Müller

hb MÜLLER 2358

Basionym:

Distribution: Mexico

	Gottsche	1863	103	Separata of Mex. Leverm.: 233
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 329-340 [Mexico]

gibbosa Nees 1840 191

Subgenus: Chonanthelia Chonanthelia

Typus: Guyane Francaise - Jamaica ? / ?Barbados Swartz? / ?coll. ign. [Leprieur 278]

in hb S (ex hb HOOKER) [lectotypus],
in hb PC PC0102276 [isosyntypus] & PC0102277 (hb F. CAMUS, hb RICHARD]
in hb GLM 05987, 05988

Basionym: Jungermannia obscura var. (beta) Nees in Martius 1833

Distribution: USA (FL AL), Mexico, Guatemala, Honduras, Costa Rica, Panama, Cuba, Jamaica, Puerto Rico, Martinique, Barbados, Dominican Rep, Venezuela, Trinidad, Colombia, Ecuador, Galapagos Isls [Ecuador], Peru, Guyana, Surinam, French Guiana, Brazil, Chile

comb et stat nov	Nees in Montagne	1840	467	Ann Sci Nat Bot, ser 2, 14: 333
	Nees in G., L. & N.	1845	2850	Syn Hepat: 411 (No 1)
	Nees in G., L. & N.	1847	2848	Syn Hepat: 770
	Montagne	1855	475	Ann Sci Nat Bot, ser 4, 3: 319 [Guiana]
	Gottsche	1863	103	Separata of Mex. Leverm.: 233
	Gottsche	1864	478	Ann Sci Nat Bot, ser 5, 1: 165-166
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 329-330 [Mexico]
	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 88 [Brazil]
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 12 & 22-23 (No 10)
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 132
	Stephani	1897	1059	Bihang Kgl Sv Vetensk-Akad Handl bot 23 III (2): 19 [Brazil]
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 132
	Stephani	1910	686	Spec Hepat 4: 344
	Massalongo	1911	903	Rev Bryol 38: 11 [Brasil]
	Evans	1914	235	Trans Connet Acad Arts Sci 18: 327-333, fig. 9(a-i) [Peru] [TYPES]
	Evans in Britton & Millspaugh	1920	1094	Bahama Flora: 520 [Bahamas]
	Herrera	1926	2788	Chloris Cuzcoensis: 14
	Pagan	1939	931	Bryologist 42: 79-80 [Puerto Rico]
	Herrera	1941	2789	Sinopsis de la Flora del Cuzco: 69 [Peru, Cuzco]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 780-782, fig Fr.g.(1-6)
	Clark & Svihla	1948	325	Bryologist 51: 24 [key to Fr. of Middle America: Florida (Alabama), Mexico (West Indies, South America)]
	Clark	1956	381	Bryologist 59: 280-283, fig. 1-19
	Arnell	1959	448	Svensk Bot Tidskr 53 (4): 500 [Martinique]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 85 [Brazil]
	Bonner	1965	655	Index Hepat 5:
	Winkler	1976	5	Rev Bryol Lichen 42 (3): 811 [Colombia]
	Hegewald & Hegewald	1977	172	Nova Hedwigia 28: 742 [Peru)
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Griffin III	1979	988	Acta Amazonica 9 (3): 34 [Brazil, Manaus]
	Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 2 Galapagos Isls]
	Yuzawa	1983	498	J Hatt Bot Lab 54: 107-109, fig. 1(a-n), 2(a-q) [diagnostic characters of gibbosa]
	Yuzawa	1984	502	J Hatt Bot Lab 57: 393, fig. 9(a-q)
	Yano	1984	501	J Hatt Bot Lab 56: 504 [checklist Brazil]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 69ab, microfiche 47 fig 3168 ["Merida Moritz leg"] -3169 ["olim Frull Herminieri Steph Guadeloupe 609 e Mexico 943"]
	Yuzawa, Mues & Hattori	1987	509	J Hatt Bot Lab 63: 425-436 [morphology & systematic]
	Gradstein & Florschütz-de	1989	1237	Trop Bryol 1: 42 [Venezuela, Mt Roraima]
	Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [Suriname, French Guiana]
	Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 42 [Mexico]
	Morales Z.	1991	307	Trop Bryol 4: 37-38 [Costa Rica]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 216-219, fig. 19, map 4 a(: 283)
	Behar, Yano & Vallandro	1992	921	Bol Mus Biol Mello Leitao, new ser 1: 27, fig 1 [Brazil]
	Schuster	1992	603	Hepat N America 5: 262-269, fig. 815(6-10), 818, 819
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Gradstein	1993	2265	Trop Bryol 7: 81 [Bryophyta Neotropica Exsiccata: Colombia (84), also in F]
	Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
	Visnadi & Vital	1995	32	Trop Bryol 10: 71 [Brazil: Setiba State Park]

Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana, Surinam, French Guiana]
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
Boas-Bastos & Bastos	1998	702	Trop Bryol 15: 103 [Brazil, Bahia]
Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
Yano & de Mello	1999	919	Iheringia, ser Bot 52: 75-76 [Brasil]
Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
Rangel-Ch.	2000	1091	Colombia, diversidad biótica III, Bogota: 800 [Rare]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 87, fig 25(a-c) [Brazil]
Drehwald	2003	2813	Cambios en la vegetación briofítica: 288 [Peru (Parque nacional Manu)]
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Martinez	2005	2307	Cuba: Parque Nacional “Alejandro de Humboldt", p. 222
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Camara, Oliveira & Santiago	2005	1359	Trop Bryology 26: 137 [Brazil; Distrito Federal Brasilia]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Camara & Costa	2006	1131	Hoehnea 33(1): 83 [Reserva Ecologica do IGBE, Brazil]
Gradstein	2006	1401	Crypt Bryol 27(1): 147, 150 [French Guiana: lowland cloud forest]
Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 384-385 [Dominican Republic, new to Hispaniola]
Gradstein & Ilkiu-Borges	2009	1920	Mem New York Bot Gard 76(4): 45, fig 25(d,e) [French Guiana]
Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149 [Galapagos Isl, Isabela (Cerro Azul), San Cristobal, Santa Cruz, forming dense mats on bark in semideciduous woodland of the transition zone, 60-300 m.]
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 249 [Les Saintes Archipelago (Terre des Bas)], 251 [Martinique]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 364 [Colombia; synopsis of Frullaniacae & keys]
Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
Gradstein	2012	3341	Cryptogamie, Bryologie 33(3): 257-262 [type]
Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):213 [Panama]
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
Lima et al.	2018	5025	Rodriguésia 69 (3) 977, fig 4(a-i), key
Lima	2019	5121	Frullania no Brasil [Thesis]: 58-64 fig. 4 [distribution], fig 5(a-m)
Gradstein	2021	5642	Mem NY Bot Gard 121: 366-367, fig. 37p,q [key -Ecuador, Colombia]

gigantea Steph. 1911 1042

Subgenus: Trachycolea

Typus: New Caledonia. in monte Koghi, 300m 17.11.1907, Franc

in hb G (hb THERIOT 9)
in hb PH 3406 (hb TERIOT 47) > see fr1042.png

Basionym:

Distribution: New Caledonia

spec nov	Stephani	1911	686	Spec Hepat 4: 467
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 160 [New Caledonia]
	Bonner	1965	655	Index Hepat 5: 311
	Hattori	1977	479	J Hatt Bot Lab 43: 419-421, fig 7 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 127
	Hattori	1984	503	J Hatt Bot Lab 57: 412
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-133, microfiche 52 fig 3525 [from type; "N Caledonia, leg Franc, Herb Thériot No 9, acc Januar 1908 (Syn: grandistyla St)"]
	Hattori	1986	506	J Hatt Bot Lab 60: 214

giraldiana var. handelii (Verd.) S.Hatt. 1972 1046

Subgenus: Trachycolea

Basionym: Frullania nepalensis var. handelii Verd. in Hand.-Mazz. 1930

Distribution: China (Yizang, Yunnan, Sichuan)

comb nov	Hattori	1972	538	J Hatt Bot Lab 36: 120-123, fig 9
	Hattori	1982	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 95 [China]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 135 [China]
	Wu in Li, Gao, Wu et al.	1985	1169	Bryoflora Xizang (Tibet), Science Press, Beijing: 523-525, fig 227(20-23)
	Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [Sichuan]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 410, fig 205(16-17) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 120, fig 52(5-7)
	Bai	2001	1742	Guizhou Science 19(4): 38, fig 1(16-17) [China, Yunnan]
	Bai	2002	1189	Chenia 7: 9, fig 1(16-17) [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1117, fig 521(16-17) [China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 229(16-17) [key in Chinese]

giraldiana C.Massal. 1897 1044

Subgenus: Trachycolea

Typus: China. Schansi Prov, in monte Tui-kio-san -.8.1894, J. Giraldi

in hb G 7932 (hb MASSALONGO 25, ex hb LEVIER)

Basionym:

Distribution: China (Sichuan, Shaanxi, Xizang, Yunnan), Taiwan, India (East Himalaya, Megalaya), Nepal, Bhutan

spec nov	Massalongo	1897	1914	Mem Accad Agr Art Comm Verona, ser 3, 73 (2): 41-42, pl 11 fig 16(1-6)
	Levier	1906	824	Nuovo Giorn Bot Ital NS 13: 348
	Stephani	1911	686	Spec Hepat 4: 449-450
	Verdoorn	1930	293	Ann Bryol Suppl 1: 40-41
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 40-41 [China]
	Bonner	1965	655	Index Hepat 5:
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 525-526
	Hattori in Hara	1971	190	Univ Mus Univ Tokyo Bull 2: 236 [Bhutan]
	Hattori	1972	538	J Hatt Bot Lab 36: 120-123, fig 8
	Hattori	1982	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 99 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-134, microfiche 52 fig 3526 [from type; "China, Schensi, Giraldi (25)"]
	Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
	Chao & Lin	1991	458	Yushania 8: 11, fig 2(a-c) [Taiwan]
	Chao & Lin	1992	460	Yushania 9: 200, fig 6(a-j) [Taiwan]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Eastern Himalaya] - new record from India (Hattori 1966)
	Lin & Chen	1997	1130	Biol Bull 75: 88, fig 6(a-d) [Taiwan, key to species, in Taiwanese]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [Sichuan]
	Lin	2000	1524	Liverwort Flora Taiwan: 158, fig p 159(1-3) [Taiwan]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 171
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 117-120, fig. 52(1-4)
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 410, fig 205(10-15) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 38, fig 1(10-15) [China, Yunnan]
	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 262-264, pl 52 (21-37), map 11 - Unpublished thesis.
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 17 [Nepal, 1800-2700 m]
	Bai	2002	1189	Chenia 7: 9, fig 1(10-15) [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1115-1117, fig 521(10-15) [China]
	Lin	2004	1740	CD-Rom Taiwan
	Qing	2008	4143	Hepaticae of Quinling Mts. (Thesis)
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 67-68, fig 1[map], 6(21-37) [India, Meghalaya, Eastern Himalayas]
	Pradhan & Joshi	2009	1941	Botanica Orientalis 6(6): 72 [Nepal]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 229(10-15) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Boufford et al.	2011	2704	Harvard University Herbaria [Internet) 6 specimens
	Jia & He	2013	4906	Species catalogue of China: 376-377
	Singh et al.	2016	4561	Liverworts and hornworts of India [Checklist]: 87

globosa S.Hatt. & Streimann 1985 1048

Subgenus: Trachycolea

Typus: New Guinea. Central Prov, Head of Goldie River, 44 km NE of Port Moresby, 420m -, HS & EN 14712

in hb NICH [holotypus], in hb CBG [isotypus]

Basionym:

Distribution: New Guinea

spec nov	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 107-108, fig 4 [different from Fr. reflexistipula] [New Guinea]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 24: Holotpe. Papua New Guinea, Centaral · Province, Head of Goldie River. 420 m. On rock besides stream. 9 Feb. 1981. H. Steimann and E. K. Naoni 14712 (NICH 394155).

glomerata (Lehm. & Lindenb.) Nees & Mont. 1838 [non Mont 1840, nec Mont 1842] 190

Subgenus: Trachycolea Australes

Typus: Brazil. Serra de Estrella sd, Beyrich 44

in hb W (LINDENBERG 7178)

Basionym: Jungermannia glomerata Lehm. & Lindenb. 1833

Distribution: Mexico, Costa Rica, Cuba, Dominican Rep, Bolivia, Ecuador, Brazil, Chile, Argentina (Salta, Buenos Aires)

comb nov	Montagne	1838	464	Ann Sci Nat Bot, ser 2, 9: 46-47 [Brazil, Chile, Mexico]
	Montagne in La Sagra	1842	26	L'ile de Cuba [Franz Ed]: 459-461
	Montagne	1842	469	Ann Sci Nat Bot, ser 2, 18: 13 [This species was listed from Nilgiri Hills 'Neel-Gheries' by Montagne (1842)]
	Montagne in La Sagra	1845	25	La isla de Cuba [Span Ed] 9: 275
	Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 421
	Lehmann & Lindenberg in G., L. & N.	1847	2848	Syn Hepat: 773-774
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 79 [= Fr. squarrosa; vide Verdoorn 1929]
	Mitten	1861		This species was listed from Nilgiri Hills 'Neel-Gheries' by Mitten (1861).
	Mitten	1861	574	J Linn Soc Bot 5: 119 [India: Nilgiri]
	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 88 [Brazil]
	Dusen	1905	710	Arch Mus Nac Rio de Janeiro 13: 115 [Brasil]
	Stephani	1910	686	Spec Hepat 4: 384-385
	Stephani	1916	222	Biblioth Bot 87: 245 [Bolivia]
	Verdoorn	1929	246	Ann Bryol 2: 156 [Note to S.L. 1857 = Fr. squarrosa]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Kühnemann	1949	657	Lilloa 19: 354 [Argentina: Tucuman]
	Clark & Svihla	1952	348	Bryologist 55: 293-294, fig 1-20
	Herzog	1953	640	Rev Bryol Lichen 20: 128 [Costa Rica]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: SI]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 90 [Brazil]
	Bonner	1965	655	Index Hepat 5: 312
	Yano	1984	501	J Hatt Bot Lab 56: 505 [as Fr. hilariana; checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 61abcd, microfiche 50 fig 3417-3422
	Reiner	1988	1043	Bol Soc Argentina Bot 25 (3-4): 319-322, fig 7(a-m) [Argentina, Prov Buenos Aires]
	Yuzawa & Koike	1989	519	J Hatt Bot Lab 66: 353-354 [Mexico, as Fr spicata, syn sub F. glomerata]
	Schäfer-Verwimp	1991	523	J Hatt Bot Lab 69: 153 [Brazil]
	Buck	1994	28	Bryologist 97 (4): 422 [Vainio's specimen from Brazil at TUR]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [South India]
	Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
	Costa & Yano	1998	757	Hoehnea 25 (2): 101-102 [Brasil]
	Yano & de Mello	1999	919	Iheringia, ser Bot 52: 76-77, fig10-19 [Brasil]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 197
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 87 [Brazil] [this species is confined to tropical Central and South America] tropical Central and South America
	Yano	2004	1450	Acta Amazonica 34(4): 22 [Brazil]
	Dauphin	2005	1360	Tropical Bryology 26: 160 [Costa Rica]
	Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
	Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 283 [Rio de Janeiro State, Brazil]
	Peralta & Yano	2005	1488	Acta bot bras 19(4): 971 [Brazil, Sao Paulo]
	Staples & Imada	2006	1716	Trop bryol 28: 38 [Hawaii dubious record]
	Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
	Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 385 [Dominican Republic, Hispaniola]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 49 [Brazil]
	Daniels	2010	2142	Archive Bryology 65: 93 [India doubtful]
	Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
	Singh et al	2016	4561	Liverworts and hornworts of India: 293 (India doubtfull]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 127-128, fig. 14 [distribution]
	Fuentes & Larrain	2021	5908	J Bryol 43(1): 72-73 [Argentina]

	Gradstein	2021	5642	Mem NY Bot Gard 121: 367 [key -Ecuador]

grabenhorstii Heinrichs, K.Feldberg, A.Müller, Schäf.-Verw., von Konrat, A.R.Schmidt 2018 2486

Subgenus:

Typus:

GERMANY. Goitzsche mine near the city of Bitterfeld. Geoscientific Collections of the University of Göttingen, GZG.BST.21974! (formerly Heinrich Grabenhorst Amber Collection, Le-7).

Basionym:

Distribution:

	Feldberg et al	2018	5007	Bry. Div. Evo. 40 (2): 091-103 [Bitterfeld amber]

gracilicaulis S.Hatt. 1977 1059

Subgenus: Diastaloba

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1977	479	J Hatt Bot Lab 43: 421-422, fig 8 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 127
	Hattori	1984	503	J Hatt Bot Lab 57: 412-413 [female plant]
	Hattori	1986	506	J Hatt Bot Lab 60: 223
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 24: Holotype. New Caledonia, NW of the summit of Mt. More. 1060 m. 28 July 1951. H. Hurlimann 2794 (NICH 425459).

gracilis var. brevior (Gottsche, Lindenb. et Nees) Schiffn. 1898 1081

Subgenus: Diastaloba Diastaloba I

Typus: Singapore

hb MONTAGNE 124

Basionym: Frullania gracilis var. β brevior Gottsche, Lindenb. & Nees 1845

Distribution: Singapore

	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 327
	Bonner	1965	655	Index Hepat 5: 314

gracilis (Reinw., Blume & Nees) Nees 1845 770

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia

Type:—INDONESIA. Java: s. loc. spec. (type not located; missing in STR and other searched herbaria).

Basionym: Jungermannia gracilis Reinw., Blume & Nees 1824

Distribution: ? Mauritius, China (Hainan), Taiwan, Andaman Isl [India], Sri Lanka, Burma, Vietnam, Thailand, Laos, Singapore, Malaysia (Selangor, Pahang, Malacca, Johor, Sarawak, Sabah), Borneo, Indonesia (Sumatra, Java, Bali, Ceram, Sulawesi, Ambom), Philippines, New Guinea, Borneo, New Zealand, Palau Isl

Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
Gottsche in G., L. & N.	1845	2850	Syn Hepat: 452-453
Montagne	1845	1591	Voyage au pole sud 1837-40, Paris, 3 Botanique, vol 1 Cryptog: 225-226
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 90
Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 313 [Java]
Hooker	1867	1154	Handbook New Zealand Flora: 539 [Lord Auckland's group, but not seen a specimen from this locality]
Sande Lacoste in Veth	1884	807	Midden Sumatra, Reizen en Qnderzoekingen der Sumatra Expeditie, 4 (2): 44 [Sumatra]
Stephani	1894		: 118
Bescherelle	1895	2795	Flore de l'Ile de la Reunion : 4
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 326-327
Stephani	1911	686	Spec Hepat 4: 647
Verdoorn	1929	245	Ann Bryol 2: 144 [Java, Singapore]
Verdoorn	1929	246	Ann Bryol 2: 158
Verdoorn	1930	293	Ann Bryol Suppl 1: 111-114, fig 180, 187-189, 210, 213, 237-238
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 59 [Sumatra, Java, Sulawesi]
Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 497 [Java]
Verdoorn	1932	232	Ann Bryol 5: 126 [Hepat select crit, ser 3 & 4 no 176-177; Singapore-Java]
Verdoorn	1934	241	Ann Bryol Suppl 4: 206 [Malay Halbinsel, Sarawak] & 216, fig 20 [map]
Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 317 [Borneo, Sarawak]
Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
Miller	1960	920	Bryologist 63: 121 [Micronesia]
Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 82 [Borneo, Mt. Kinabalu]
Hattori	1974	544	J Hatt Bot Lab 38: 174 [Luzon]
Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 112
Hattori	1975	547	J Hatt Bot Lab 39: 287-288 [Sumatra]
Hattori	1976	80	J Hatt Bot Lab 40: 475-476, fig 200(i-n)
Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 445 [Thailand]
Hattori & Thaithong	1978	128	J Jap Bot 53 (6): 172 [Laos]
Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
Hattori	1980	489	J Hatt Bot Lab 47: 107, fig 228(h-o) [Fr. gracilis & apiculata]
Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
Hattori	1982	495	J Hatt Bot Lab 51: 217-218
Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 127
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
Hattori & Lin	1985	505	J Hatt Bot Lab 59: 158 [China, [records from Mauritius are based on erroneous identification]
Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-63, microfiche 49 fig 3303 ["Pegu Kunz"] - 3304 ["Nova Guinea, leg Armit"
Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 108 [New Guinea]
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302 [Philippines]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 29, fig 1
Hattori	1986	507	J Hatt Bot Lab 60: 241-243 [Seram]
Hattori	1988	516	J Hatt Bot Lab 65: 427 [PNG]
Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
Lin, Li, Wu & Li	1994	1230	Chenia 2: 67 [China, Hainan]
Grolle	1995	250	Bryophyt Bibl 48: 147
Lin	2000	1524	Liverwort Flora Taiwan: 159-160, foto p 159 & 161, fig 160(1-14) [Taiwan]
Bapna & Kachroo	2000	712	Hepaticology in India II: 192-193, fig 173(a-e)
Juslen, He, Piippo Tan	2001	837	J Hatt Bot Lab 91: 269-271 [oil bodies], fig 2c

	Piippo, He, Juslen, Tan, Murphy & Pocs	2002	1002	Ann Bot Fennici 39: 114 [Singapore]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Excluenda from Africa, Mauritius] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Konrat & Braggins	2005	1376	New Zealand J Bot 43: 890 [Australia, New Caledonia, SE Asia, close to Fr wairua]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Haerida	2015	4229	Floribunda 5(2): 72 [Bali, with key]
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 24-26, fig 7(a-h) [checklist & revision of genus Fullania, Thailand]
	Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 22, photos [Sumatra, with key]

gracilis var. vittata S.Hatt. 1986 1082

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Ceram, Manuseli NP, 1300m -, HA 9788

in hb NICH [typus], in hb KYO [isotypus]

Basionym:

Distribution: Indonesia (Ceram)

var nov	Hattori	1986	507	J Hatt Bot Lab 60: 243 [var nov]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 25: Holotype. Seram I., Manusela National Park, Mt. Musisi. 1300 m. On fallen branches of tree. 25 Jan. 1985. H. Akiyama 9788 (NICH 401637).

gracilis ssp. zennoskei S.Hatt. & Thaithong 1978 1083

Subgenus: Diastaloba Diastaloba I

Typus: India. Assam, K. & J. Hills, Jowai - Jarain, 54km & 85 km from Shillong, 5000ft IS 8436

in hb NICH [holotypus]in hb TENN [isotypus]

Basionym:

Distribution: India (North: Assam, Meghalaya (Shillong))

	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 183-185, fig 5(a-k)
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 21 [Eastern Himalaya] - new subspecies from Eastern Himalayas (Hattori & Thaitong 1978)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 193-194
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 276, map 11 - Unpublished thesis.
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 75-76, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 25: Holotype. India, Assam, Shillong. 5000 ft. On tree trunk. 6 Apr. 1965..Z. Iwatsuki & Sharp 8436 (NICH 261702).

gradsteinii Yuzawa, Mues & S.Hatt. 1987 248

Subgenus: Chonanthelia Pluricarinatae

Typus: Ecuador. Galapagos Isl. Santa Cruz, along the old trail to Bella Vista, dense tufts on twigs of Zanthoxylum fagara 11/4/1976, S.R. Gradstein & W.A. Weber H3

in hb F C0000138F - Cryptogamic Herbarium 1037140 - INR 1767015 & 44932 [holotypus] > see fr1368.jpg
in hb U [holotypus]
in hb NICH [isotypus],
in hb GOET 7888 [isotypus]

Basionym:

Distribution: Galapagos Isls [Ecuador]

spec nov	Yuzawa, Mues & Hattori	1987	509	J Hatt Bot Lab 63: 429, fig. 4
	Yuzawa	1991	525	J Hatt Bot Lab 70: 237-238, fig. 29, map 5 b(:284)
	Gradstein in Zizka & Klemmer	1994	1118	Kl Senckenbergreihe 20: 59 [Galapagos]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149 [Galapagos Isl]
	Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 367, fig. 38a [key -Ecuador (Galapagos)]

granatensis Gottsche 1864 1085

Subgenus: Meteoriopsis Intumescentes

Typus: Colombia. New Granada, Fusagasuga, 2100m -.1.1860, Lindig 1723

in hb G

Basionym:

Distribution: Colombia

spec nov	Gottsche	1864	478	Ann Sci Nat Bot, ser 5, 1: 173-174
	Stephani	1911	686	Spec Hepat 4: 530
	Bonner	1965	655	Index Hepat 5: 314-315
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-110, microfiche 58 fig 4034 ["Nova Granada, Lindig 1723", 215]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [dubious species]

grandiclava Steph. 1911 858

Subgenus: Trachycolea Orientalis

Typus: New Caledonia. inter Farim et Table Unio -.7.1909, Le Rat sn

in hb G (hb G Paris 195) G20579 [holotypus]
in hb B, hb L, hb PC [isotypus]

Basionym:

Distribution: New Caledonia

spec nov	Stephani	1911	686	Spec Hepat 4: 676-678
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 172 [syn nov sub Fr. capillaris; without justification (Uribe 2011)]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 153
	Bonner	1965	655	Index Hepat 5: 315
	Hattori	1977	479	J Hatt Bot Lab 43: 414, footnote 4 [syn sub Fr. capillaris; without justification (Uribe 2011)]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 127
	Hattori	1984	503	J Hatt Bot Lab 57: 409
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-137, microfiche 52 fig 3529-3530 [from type; "NCaledonia, leg Lerat, Gen Paris 195"]
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Frullania] [Monography of subgenus Meteoriopsis]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 25: lsotype. New Caledonia. s.d. Le Rat (NICH 354199).
	Uribe-M.	2011	2767	Caldasia 33(1): 71-72, fig 2(a-h) [type study, "a separate species, not as a synonym of F. capillaris", belongs to sg Frullania, sect Orientalis]

grandifolia Steph. 1911 1086

Subgenus: Meteoriopsis Meteoriopsis

Typus: Mexico. sd, Leibold sn

ex hb RABENHORST, in hb G (holotypus G 13630)

Basionym:

Distribution: Mexico, Colombia, Ecuador; Peru

spec nov	Stephani	1911	686	Spec Hepat 4: 684
	Bonner	1965	655	Index Hepat 5: 315
	Stotler	1969	4761	Nova Hedwigia 18:
	Stotler	1970	194	The genus Frullania, separata:
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-111, microfiche 58 fig 4035 ["Mexico, Leibold, Herb Dr G Winter"] - 4036
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 42 [Mexico]
	Uribe	2008	1513	Caldasia 30(1): 74-75, fig. 8 [Monography of subgenus Meteoriopsis] [belongs to Meteoriopsis]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 364, fig7(a-k) [Colombia; synopsis of Frullaniacae & keys]
	Atwood & Espinoza-Prieto	2020	5602	J Bryol 42(2): <195-208>[Peru]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 367-369, fig. 38b,c [key -Ecuador, Colombia]
	Atwood & Espinoza-Prieto	2023	6424	Journal of Bryology - Published online: 26 Jul 2023.: 2-3 - [Peru]

grandilobula S.Hatt. & Piippo 1986 1087

Subgenus: Trachycolea

Typus: PNG. New Guinea. Morobe, Kewieng, 2200-2450m 1981, Koponen 34421
in hb NICH [holotypus], in hb H, LAE [isotypus]

Basionym:

Distribution: Neu Guinea [Papua New Guinea]

Hattori & Piippo	1986	557	Acta Bot Fennica 133: 45-46, fig 4-5
Hattori	1988	516	J Hatt Bot Lab 65: 427-428 [PNG]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 25: Holotype. Papua New Guinea, Morobe Proy., Kewieng no\. 2200-2450 m. On tree trunk. 27 July 1981 ; T Koponen 34421 (NICH 400166).

grandistipula Lindenb. 1845 [non Steph. 1924] 1088

Subgenus: Trachycolea

Typus: Indonesia. Java sd, Haskarl

in hb NEES, isotypus in hb S (B22866)

Basionym:

Distribution: India (South: Tamil Nadu (Chennai), North: Eastern Himalayas: Megalaya), Sri Lanka, Vietnam, Malaysia (Pahang, Sabah), Borneo, Indonesia (Sumatra, Java, Halmahera), New Guinea, Philippines, Guam, Micronesia

spec nov	Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 430 [Java]
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 538
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 82 [Java]
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 312 [Java]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 327 [Java]
	Stephani	1910	686	Spec Hepat 4: 443-444 [Java, Ceylon]
	Verdoorn	1929	245	Ann Bryol 2: 125-126 [Java, Sumatra]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 43-44, fig 23-27 [Ceylon, Sumatra, Java, Halmahera]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 55 [Java]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 487 [Sumatra, Java, Borneo]
	Verdoorn	1932	232	Ann Bryol 5: 125 [Hepat select crit, ser 3 & 4 no 158; Java]
	Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: SI]
	Bonner	1965	655	Index Hepat 5: 315 [Ceylon, Java Philippines]
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Miller	1968	672	Micronesia 4 (1): 74 [key to Guam & Northern Micronesia]
	Miller	1968	672	Micronesia 4 (1): 74
	Hattori	1973	542	J Hatt Bot Lab 37: 149 [New Guinea]
	Hattori	1974	545	J Hatt Bot Lab 38: 196-198, fig 92-93 [Ceylon, Madras Pen., Sumatra, Java, Halmahera, Borneo, New Guines]
	Hattori	1975		: 78, fig 2
	Hattori	1975	547	J Hatt Bot Lab 39: 289 [Sumatra, Java, Ceylon, Inida (var. Rugosa), Sumatra, Java, Borneo, Halmahera, New Guinea]
	Hattori	1976	80	J Hatt Bot Lab 40: 476 [Kinabalu; Ceylon, Sumatra, Java, Borneo, Halmahera, New Guinea, var. rugosa: India]
	Engel	1978	677	Taxon 27 (4): 403
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Hattori	1979	129	J Jap Bot 54 (1): 23-24 [Sri Lanka]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Hattori	1982	495	J Hatt Bot Lab 51: 250 [New Guinea, Madras Pen., Ceylon, Malay Pen., Java , Sumatra, Halmahera]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 128 [Mariana (Guam), Sri Lanka, India (south), Sumatra (west), Java (west), Borneo, Halmahera, New Guinea, Indochina (Vietnam)]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-138, microfiche 52 fig 3531 ["Syn: Frull subinflata Mitten, stimmt mit dem Original aus Madras ganz überein, Ceylon, Nietner 1556c"] - 3532 ["syn subinflata Mitten, Java, Hasskarl (Copie nach Gottsche) Syn p 430"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 46 [India ("Madras Penins."), Sri Lanka, Borneo, Indonesia (Halmahera, Java, Sumatra), Malaysia, Papua New Guinea, ?Micronesia]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302 [Philippines]
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [South India]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 171-172 [Madras, Ceylon, Java, Sumatra, New Guinea, Borneo, Micronesia, Malaya Pen.]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 284-285, map 11 - Unpublished thesis.
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 79, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 23, photos [Sumatra, with key]

griffithsiana Gottsche 1846 1110

Subgenus: Meteoriopsis Intumescentes

Typus: Brazil. Minas Gerais, peak of Habana du Campo 1853, Miss Griffiths
ex hb W. GOURLIE, in hb G, in hb NY

Basionym:

Distribution: Peru, Brazil

spec nov	Gottsche in G., L. & N.	1846	2849	Syn Hepat: 466
	Stephani	1911	686	Spec Hepat 4: 496-497 [as Fr. griffiithiana]
	Bonner	1965	655	Index Hepat 5: 317
	Stotler	1969	4761	Nova Hedwigia 18: 456-457, pl 20(175-181)
	Stotler	1970	194	The genus Frullania, separata: 456-457, pl 20(175-181)
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 53-55, pl 5, map 3, [Brasil, Rio Grande do Sul]
	Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 87 [Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 49 [Brazil]
	Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
	Graham et al	2015	4766	Acta Biologica Plantarum Agriensis 4: 16 [Peru] – und andere Seiten
	Lima	2019	5121	Frullania no Brasil [Thesis]: 159-160, fig. 18 [distribution]

grossiclava Steph. 1910 1114

Subgenus: Diastaloba Diastaloba III

Typus: Zaire. Fort Beni, 1000m sd, Exped A. v. Mecklenburg, Mildbraed 2435
in hb G 17560 [holotypus] &

Basionym:

Distribution: Democratic Republic of Congo, Malawi, Mozambique, Tanzania, Zimbabwe, Madagascar

spec nov	Stephani	1910	686	Spec Hepat 4: 384
	Stephani in Mildbraed	1911		Wiss Ergebn Deutsch Z Afr Exped 1907-1908, (Separata): ? 23, fig 46(a-d) [as spec nov]
	Stephani in Mildbraed	1914	820	Wiss Ergebn Deutsch Z Afr Exped 1907-1908, (Bot=2): 133, fig 46(a-d) [as spec nov]
	Demaret	1942	1066	Bull Jard Bot Etat Bruxelles 16 (2): 304
	Bonner	1965	655	Index Hepat 5: 317
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 353 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 98-101, fig 25
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 209, 211 [key to Madagascar] & 220, fig 3(c-e)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 19, microfiche 50 fig 3370 [from type; "Fort Beni 1000m, Exp A Fr v Mklg, Mildbraed 2435, olim grandiclava (nom occup)"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire]
	Grolle	1995	250	Bryophyt Bibl 48: 66 [afr3]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 88 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [new to Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Madagascar, Malawi, Mozambique, Tanzania, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Madagascar, Malawi, Mozambique, Tanzania, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]

grossifolia Steph. 1911 1115

Subgenus: Caulisequa

Typus: Brazil. Brasil oriental sd, Ule 126

in hb G [holotypus]

Basionym:

Distribution: Brazil

spec nov	Stephani	1911	686	Spec Hepat 4: 633-634
	Bonner	1965	655	Index Hepat 5: 318
	Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-19, microfiche 48 fig 3249 [from type; "Brasilia (Ule)"]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
	Schäfer-Verwimp, Peralta & Siqueira	2012	3323	Phytotaxa 57: 27-30 [grossifolia divers from lindenbergii] [Key to the species of Frullania subg. Diastaloba from Brazil]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 103-105, fig. 11 [distribution]
	Winter & Schäfer-Verwimp	2020	5742	Frahmia 19: 18 [sgen. Caulisequa, key]

guadalupensis Gottsche 1911 1116

Subgenus: Meteoriopsis Intumescentes

Typus: Guadeloupe sd, l'Herminier

in hb G (ex hb GOTTSCHE)
in hb PC PC0102248 [isotypus]

Basionym:

Distribution: Guadeloupe, Colombia, Brazil

	Bescherelle	1893	3815	J Bot Morot 7 (9): 179 [Guadeloupe : L'Herminîer]
spec nov	Gottsche ex Stephani	1911	686	Spec Hepat 4: 496
	Pagán	1942	3152	Bryologist 45(4): 108 [Guadeloupe]
	Clark & Svihla	1952	345	Bryologist 55: 189-190, fig 1-12
	Bonner	1965	655	Index Hepat 5: 319
	Stotler	1969	4761	Nova Hedwigia 18: 467-468, pl 31(265-273]
	Stotler	1970	194	The genus Frullania, separata: 467-468, pl 31(265-273]
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 56-58, pl 6, map 5, [Brasil, Rio Grande do Sul]
	Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 60, microfiche 57 fig 3960 ["l'Herminier, Guadeloupe"]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 87 [Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 31 [Brazil; catalog]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 49 [Brazil]
	Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [dubious species]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 196 [name excluded from Brazil, specimens belong to Fr setigera]

guatemalensis Steph. 1911 1118

Subgenus: Incertae sedis

Typus: Guatemala. Alta Verapaz, prope Coban, 1350m -.12.1906, H.v. Türckheim

hb LEVIER 5411, in hb G, "cotypus": H.v.Türckheim 5412, 5413, Dez 1906 [CLARK 1954]

Basionym:

Distribution: Guatemala, Mexico

spec nov	Stephami	1911	686	Spec Hepat 4: 497
	Clark	1954	367	Bryologist 57: 235-238, fig 1-20
	Bonner	1965	655	Index Hepat 5: 319
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 61, microfiche 57 fig 3961 ["Türckheim, Levier 5411"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 43 [Mexico]

haematocysta Spruce 1884 249

Subgenus: Chonanthelia Pluricarinatae

Typus: Ecuador. Andes Quitensis, Pallatanga, 1800 m sd, Spruce
in hb E E00002534 [isotypus]

Basionym:

Distribution: Ecuador, Peru

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 45 & 54 (No 43)
	Stephani	1910	686	Spec Hepat 4: 343-344
	Clark	1957	382	Bryologist 60: 151-154, fig. 1-25
	Bonner	1965	655	Index Hepat 5: 320
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 72, microfiche 47 fig 3173 [from type; "Andes Quitenses Pallatanga leg Spruce"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 238-240, Fig. 50, map 5 b(:284)
	Rodriquez et al.	2017	4629	Arnaldoa 24(1): 255 [Peru, La Libertad]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 369 [key -Ecuador]

hainanensis S.Hatt. & P.J.Lin 1986 1122

Subgenus: Trachycolea

Typus: China. Hainan Isl, Giangenghig Mt, ca. 600m 8.7.1985, Pan-juan Lin 4025
in hb NICH [holotypus], in hb S China Inst Bot, Guangdong [isotypus]

Basionym:

Distribution: China (Hainan)

spec nov	Hattori & Lin	1986	137	J Jap Bot 61 (10): 307-308, fig 1 [similar to Fr. kitagawana]
	Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 25: Holotype. China, Hainan I., Mt. Gianfengling. 600 m. 8 July 1985. P. J. Lin 4025 (NICH 431999).

hamata Steph. 1911 2

Subgenus: Homotropantha Nodulosae

Typus: PNG, New Ireland [Nova Mecklemburg merid.], in montibus Rossel, 400-600m -.6.1905, R. Parkinson
hb LEVIER 4975, in hb G 14546 [holotypus], in hb FH [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia, Bismarck Arch (New Ireland [=Neumecklenburg]), Fiji (Viti Levu)

spec nov	Stephani	1911	686	Spec Hepat 4: 582-583
	Verdoorn	1928	242	Rev Bryol NS 1: 118
	Verdoorn	1930	293	Ann Bryol Suppl 1: 174, fig 279-280
	Bonner	1965	655	Index Hepat 5: 320
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Hattori	1980	490	J Hatt Bot Lab 47: 204-207, fig 24,25(a-j),26
	Hattori	1982	495	J Hatt Bot Lab 51: 238
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 128
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 108 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-21, microfiche 54 fig 3735 ["Neu Mecklenburg, Bismark Archipel, leg Parkinson 1905 (Herb Levier 4975)"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 39
	Hattori in Piippo	1986	946	Ann Bot Fennici 23: 10 [Frieda River]

hamaticoma Steph. 1889 1123

Subgenus: Trachycolea Acutilobae

Typus: Australia. Victoria, Upper Owens River 1882, Mrs McCann

hb K. MÜLLER Halensis 25, in hb G 18214

Basionym:

Distribution: Australia (VIC)

spec nov	Stephani	1889	940	Hedwigia 28: 158-159, pl 4(8-13) [Australia]
	Stephani	1910	686	Spec Hepat 4: 425-426
	Bonner	1965	655	Index Hepat 5: 320
	Hattori	1979	485	J Hatt Bot Lab 45: 343-344, fig 15(a-k) from type
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 172 [VIC endemic]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-212, microfiche 53 fig 3624 ["Upper Owens River, Mrs Mc Cann."]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 35 & 143 [Australia: VIC]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (VIC)]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 246 [field guide, Victoria]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia VIC]

hamatiloba Steph. 1910 1124

Subgenus: Trachycolea

Typus: Japan. Miyagi Pref. -.6.1903, U. Faurie 1077 [lectotype]

in hb G

Basionym:

Distribution: China (Anhui, Guangdong, Yunnan, Zhejiang), Taiwan, Korea (North), Korea (South), Japan, Thailand, Vietnam

nom nud	Stephani in Yoshinaga	1906	927	Bot Mag Tokyo 20: 53 [Japan]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 19, 19' [key to Japanese species, in Japanese]
spec nov	Stephani	1910	686	Spec Hepat 4: 400-401
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Horikawa	1934	34	J Sci Hiroshima Univ, ser B, div 2, 2: 241 [Japan, Taiwan]
	Kamimura	1939	2797	J Jap Bot 15: 69, fig 2 [vide 943]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 143-144, fig 89(a-g) [Japan, key to Japanese species]
	Hattori	1944	1911	J Jap Bot 20 (2): 155, fig 34
	Hattori	1951	528	J Hatt Bot Lab 5: 82
	Hattori	1951	528	J Hatt Bot Lab 5: 67 [comb et stat nov as Fr. pedicellata var. hamatiloba]
	Hattori	1952	529	J Hatt Bot Lab 8: 29
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 124
	Tatuno	1952	1697	J Sci Hiroshima Univ ser B, div 2 (Bot), 6(2): 51-57 [sex chromosomes]
	Hattori	1957	858	J Hatt Bot Lab 18: 117
	Kamimura	1961	199	J Hatt Bot Lab 24: [aus 717]
stat nov	Kamimura	1961	199	J Hatt Bot Lab 24: 33, fig 12(1-26) 13(13-20)
	Hong	1962		[aus 717, Korea]
	Bonner	1965	655	Index Hepat 5: 321
	Hong	1966	1107	Bryologist 69 (1): 411 [South Korea]
	Kamimura	1970	1552	Bulletin of Kochi Gakuen Junior College 2: 25 [new to Ryukyu]
	Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 331, fig 169 [713]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 123-125 [Central Japan]
	Tixier	1973	427	Nat Hist Bull Siam Soc 24 (3/4): 456 [Thailand]
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Hattori	1975	411	Misc Bryol Lichen 7 (3): 49-50, figs
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 733 [South Korea]
	Inoue	1981	963	Mem Natn Sci Mus Tokyo 14: 65 [Japan, Mt. Fuji]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 255 [Japan]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-237, microfiche 53 fig 3657 ["Japonia, Faurie 1077"]
	Hattori	1986	74	Bull Natn Sci Mus Tokyo, ser B (Bot), 12 (4): 138
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
	Zhu	1990		Acta Bryolichen Asiatica 2(1/2): <25-32>[aus 698]
	Chao & Lin	1991	458	Yushania 8: 11 [Taiwan]
	Chao & Lin	1992	460	Yushania 9: 201, fig 7(a-g) [Taiwan]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula]
	Lin & Chen	1997	1130	Biol Bull 75: 88-90, fig 7(a-d) [Taiwan, key to species, in Taiwanese]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
	Sha, Yang & Teng	1998	1221	Chenia 5: 97-101 [karyolocial study, China]
	Hashimoto, et alii	1998	699	J Hatt Bot Lab 84: 311 [terpenoids]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 402, fig 200(7-12) [China, Yunnan]
	Lin	2000	1524	Liverwort Flora Taiwan: 161, fig p 161(1-3) [Taiwan]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 16, fig 12(a-q), 13(a-o), 14(a-o) [Japan, keys to species; in Japanese]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 282, pl 164(4) [with key to Japan, in Japanese]
	Bai	2002	1189	Chenia 7: 9 [Yunnan, China]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Pocs & Ninh	2005	1398	Acta Bot Hungarica 47 (1-2):154 [Vietnam (Vu Quang Nature Reserve)]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 29 [Catalog of Japan]
	Song & Yamada	2006	1445	J H B L 100: 445 [from Jeju (Cheju) Isl, Korea]

Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 235(7-12) [key in Chinese]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 39-41, fig 15(a-g) [checklist & revision of genus Fullania, Thailand]
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

hamatosetacea Grolle 2004 2346

Subgenus:

Basionym:

Distribution: Fossil (Eocene) in Bitterfeld amber, Germany

spec nov	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 22-23, pl. 7(a-d)

hamiflora Herzog & L.Clark 1953 1131

Subgenus: Meteoriopsis Intumescentes

Typus: Costa Rica. Alajuela, vicinity of Fraijanes, 1500-1700m 12.2.1926-13.2.1926, Strandley & Torres 47636

in hb US, in hb G

Basionym:

Distribution: Mexico, Honduras, Costa Rica

Herzog & Clark in Clark & Schultz	1953	353	Bryologist 56: 180-182, fig 1-16
Bonner	1965	655	Index Hepat 5: 321
Stotler	1969	4761	Nova Hedwigia 18: 474-475, pl 38(318-324)
Stotler	1970	194	The genus Frullania, separata: 474-475, pl 38(318-324)
Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 43 [Mexico]
Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 16 of 35 [in hb US]
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]

handelii Verd. 1930 1133

Subgenus: Trachycolea

Typus: China. Yunnan, Westhang des Passes Tschiangschel, zw Salwin & Irrawadi, 2800-3450m 5.7.1916, Handel-Mazzetti 1769 /or/ 5.8.1916, Handel-Mazzetti 9369 (hb VERDOORN 10633)

in FH [holotypus]

Basionym:

Distribution: China (Yunnan)

Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 36, fig 14(1-3)
Bonner	1965	655	Index Hepat 5: 322
Hattori & Lin	1985	505	J Hatt Bot Lab 59: 135, fig 1 [China]
Hattori	1986	74	Bull Natn Sci Mus Tokyo, ser B (Bot), 12 (4): 134-136, fig 254 [from type]
Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
Furuki & Higuchi	1997	1234	Bull Natn Sci Mis, Tokyo, ser B 23(3): 89, pl 7(6) [oil bodies & oil droplets]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 422 [China, Yunnan]
Bai	2001	1742	Guizhou Science 19(4): 39 [China, Yunnan]
Bai	2002	1189	Chenia 7: 25 ["Endemic to Yunnan"]

handel-mazzettii S.Hatt. 1981 1134

Subgenus: Trachycolea

Typus: China. Yunnan, 2400m 14.3.1914, Handel-Mazzetti 62 (Diar. # 156)
in hb WU [holotypus], in hb NICH [isotypus]

Basionym:

Distribution: China (Yunnan, Xizang, Sichuan)

spec nov	Hattori	1981	491	J Hatt Bot Lab 49: 150-152, fig 243(a-m)
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 135-136 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 41 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [Sichuan]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 404-406, fig 202(1-8) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 120, fig. 52(8-11)
	Bai	2001	1742	Guizhou Science 19(4): 39 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 9 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1110, fig 518(1-8) [China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 25: lsotype. China, Yunnanfu, Sanyingpan. 2400 m. 14 Mar. 1914. H. F. v. Handel-Mazzetti 627 (NICH 380848). Other two isotypes: NICH 380849 & NICH 431931).
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 234(1-8) [key in Chinese]

hasskarliana var. integribractea (Verd.) S.Hatt. 1975 1141

Subgenus: Diastaloba Diastaloba I

Basionym: Frullania hasskarliana fo. integribractea Verd. 1930

Distribution: Indonesia (Sumatra, Java, Sulawesi), Borneo,

comb nov	Hattori	1975	547	J Hatt Bot Lab 39: 289-290, fig 145
	Hattori	1976	80	J Hatt Bot Lab 40: 502 [key to var. integribractae & Fr. ternatensis var. non-appendiculata]
	Hattori	1976	80	J Hatt Bot Lab 40: 476-479, fig 182-184, 198(a-d), 200(o-p)
	Hattori	1982	495	J Hatt Bot Lab 51: 262-263 [not in New Guinea]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]

hasskarliana Lindenb. 1845 1138

Subgenus: Diastaloba Diastaloba

Typus: Indonesia. Java / Philippines, Luzon sd, Hasskarl / 1870 Gustav Wallis in hb NEES / typus in hb S (B52769)

Basionym:

Distribution: Malaysia (Pahang, Sabah), Borneo, Indonesia (Java, Sumatra, Sulawesi, Ceram), Philippines, New Guinea (Papua New Guinea)

	Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 453
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 542
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 90 [as haskarliana]
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 313 [Java, Borneo]
	Sande Lacoste in Veth	1884	807	Midden Sumatra, Reizen en Onderzoekingen der Sumatra Expeditie, 4 (2): 44 [Sumatra]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 328
	Stephani	1911	686	Spec Hepat 4: 615[sub sgen Meteoriopsis]
	Verdoorn	1929	245	Ann Bryol 2: 139-140 [Java, Sumatra]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 88-89, fig 153-154(:99)
	Verdoorn	1930	293	Ann Bryol Suppl 1: 89
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 494 [Sumatra, Borneo, Celebes, Ceram]
	Verdoorn	1932	232	Ann Bryol 5: 126 [Hepat select crit, ser 3 & 4 no 174 [as Fr. serrata var hasskarliana]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 205 [B.N. Borneo: Mt Kinabalu]
	Bonner	1965	655	Index Hepat 5: 322-323
	Hattori	1973	540	J Hatt Bot Lab 37: 75-78, fig 36-37
	Hattori	1975	547	J Hatt Bot Lab 39: 289 [Sumatra]
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 112
	Hattori	1976	80	J Hatt Bot Lab 40: 476
	Hattori	1982	495	J Hatt Bot Lab 51: 218
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-51, microfiche 56 fig 3845 ["Philippinen Ins, Wallis 1870"] - 3846 [missing]
	Hattori	1986	507	J Hatt Bot Lab 60: 243 [Seram]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302 [Philippines]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 29
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
	Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Asiatic, montane]
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]
	Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 24, photos [Sumatra, with key]

hasskarliana var. gracilis S.Hatt. 1986 1140

Subgenus: Diastaloba Diastaloba

Typus: Indonesia. Ceram

Basionym:

Distribution: Indonesia (Ceram)

var nov	Hattori	1986	507	J Hatt Bot Lab 60: 243-245, fig 2
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 25: [as gracilia] Holotype. Seram I., Manusela National Park, along a trail between Hatumete and Hoale Pass. 1400 m. 22 Feb. 1985. H. Akiyama 10731 (NICH 401655).

hattoriantha Udar & V.Nath 1981 1146

Subgenus: Trachycolea

Typus: India. Darjeeling, Lloyd Bot Garden, 2285m 31.12.1977, S.C. Srivastava

in hb LWU [?LWG] 3282

Basionym:

Distribution: India (North: West Bengal (Darjeeling))

	Udar & Nath	1981	419	Misc Bryol Lichen 9 (2): 44-47, fig 1
	Nath & Udar	1984	442	Proc Indian Natn Sci Acad, B 50 (2): 233
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya] - new species from Eastern Himalayas (Udar & Nath 1981)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 172
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 26: Isotype. India, Liyod Botanic Garden, Darjeeling. On bark of tree. 31 Dec. 1977. S. C. Srivastava (NICH 378929).

hattorii Chavan 1992 [Thesis] 2482

Subgenus:

Typus: India, Andaman Isl., Ghani Nala Sept. 1987, on tree trunk,

hb of Abasaheb Garware College (Research Centre), Karve Road, Pune 411 004

Basionym:

Distribution:

	Joshi et al	1991	4859	Advances in Plant Science 4(1): 96 [as Fr. spec]
spec nov	Chavan	1992	4853	Thesis - Univ of Poona: 78-80 , pl. 21(1-19), 22(20-36)

hattorii von Konrat & Braggins 2003 2260

Subgenus: Diastaloba Diastaloba I

Typus: Australia. Tasmania, Hartz Mountains NP, Lake Osborne Track, 900m 14/2/1998, J.E. Braggins, 98012 or? 98/12

in hb TAS ?? [holotypus]
in hb AK [isotypus]
in hb F Cryptogamic Herbarium 1035070 - INR 37698 [holotypus]
in hb F Cryptogamic Herbarium 1035061 - [isotypus]

Basionym:

Distribution: Tasmania

spec nov	Konrat & Braggins	2003	993	New Zealand J Bot 41: 55-62, fig 1-3 [Tasmania, comparison with aterrima & rostrata] [assigned to subgen. Microfrullania]
	Konrat & Pickering	2003	1000	http://www.discoverlife.org/nh/tx/Plantae/Bryophyta/ [IDnature guide for Liverworts, Frullania, New Zealand]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (TAS)]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia TAS]
	Meagher	2008	1588	Australasian Bryol Newsletter 55: 10 [Tasmania, Cradle Mt.; as "hattori"
	Konrat, Hentschel, Heinrichs, Braggins & Pócs	2010	2377	Nova Hedwigia 91(3-4): 497-498, fig 1

hebridensis Steph. 1911 1148

Subgenus: Trachycolea

Typus: New Hebrides. "Ins. Vate, prope Franceville -.9.1904, Amigues der Bouge

in hb E.G. Paris 1, in hb G 20582

Basionym:

Distribution: Vanuatu (Efate)

spec nov	Stephani	1911	686	Spec Hepat 4: 469-470
	Verdoorn	1930	293	Ann Bryol Suppl 1: 37
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 161 [New Hebrides]
	Bonner	1965	655	Index Hepat 5: 469
	Hattori	1981	492	J Hatt Bot Lab 49: 372
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 128
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-141, microfiche 52 fig 3535 [from type; "Novae Hebridae, Ins Vater prope Franceville, leg D Amigues, Herb General Paris"]

hedrantha S.Hatt. & Kamim. 1973 1149

Subgenus: Saccophora

Typus: Indonesia. Irian Jaya, Manokwari, Arfaka Putat 1872, Beccari

ex hb FI, in hb JE [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution: New Guinea (Irian Jaya), Indonesia

spec nov	Hattori & Kamimura	1973	543	J Hatt Bot Lab 37: 519-520, fig 1(a-m)
	Hattori	1974	546	J Hatt Bot Lab 38: 240-241, fig 118
	Hattori	1982	495	J Hatt Bot Lab 51: 241
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 19 [Cat. West Melanesia]
	Schuster	1991	1151	J Hatt Bot Lab 70: 143-144 [sg. Saccophora, sect. Hedranthae]

heinrichsii Gradst., Espinoza-Prieto & J.J. Atwood 2018 906

Subgenus: Chonanthelia Cladocarpicae

Typus: PERU. Amazonas: Chachapoyas District, Calla-Calla, between Balsas and Leimebamba 31
31. August 1973, P. & E. Hegewald 6920

(MO-5245147!; isotype, PC-0661603!).
Paratype: Peru, Cajamarca, Santa Cruz, Pulan District, a 4.3 km SO de Pulan, relicto de bosque montano de la vertiente occidental de los Andes, 01 August 2018, B. Espinoza-Prieto 1547 (USM!).

Basionym:

Distribution: Peru, [not yet known from Ecuador & Colombia - Gradstein in press]

spec nov	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 , fig 1(a-k) [Key to Frull sect. Cladocarpicae, p. 75)

heteromorpha Schiffn. 1889 18

Subgenus: Homotropantha Remotilobae

Typus: Indonesia, West Irian, Manokwari, Mac Clure /Cluer Bay 17-18.6.1875, Naumann [Exp. Gazelle]

hb Verdoorn 6030; in hb FH [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia (Ceram), New Caledonia

	Schiffner	1889	581	Forschungsreise S.M.S. "Gazelle" 4 (4): 38-39, pl 8(1)
	Stephani	1911	686	Spec Hepat 4: 588
	Verdoorn	1930	293	Ann Bryol Suppl 1: 170-171, fig 274(:159)
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 174
	Bonner	1965	655	Index Hepat 5: 325
	Hattori	1975	547	J Hatt Bot Lab 39: 290
	Hattori	1980	490	J Hatt Bot Lab 47: 176-178, fig 5
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 128
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 108-109 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-22, microfiche 54 fig 3736 [" N Guinea, Mc Cluer Bay, Exp Gazelle"]
	Hattori	1986	506	J Hatt Bot Lab 60: 220, fig 7
	Hattori	1986	507	J Hatt Bot Lab 60: 245 [Seram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 39

hicksiae fo. litoralis S.Hatt. 1988 1158

Subgenus: Trachycolea

Typus: Australia. Queensland 9.7.1984 BT & RH 2381

in hb NICH [holotypus], in hb AD, NY [isotypus]

Basionym:

Distribution: Australia (QLD)

fo nov	Hattori	1988	429	Nova Hedwigia Beih 90: 149-151, fig 1(a-m)
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 26: Holotype. Australia, Queensland, Cook District, Goldsborough. 100 m. On bark of tree. 9 July 1984. B. M. Thiers & R. E. Hailing 2381 (NICH 401550).

hicksiae S.Hatt. 1984 1157

Subgenus: Trachycolea

Typus: Australia. Queensland, Mt. Lewis, SW of Mossman, 1100m 29.8.1982, M.L. Hicks 11115

in hb NICH [holotypus], in hb M.L. HICKS [isotypus]

Basionym:

Distribution: Australia (QLD)

spec nov	Hattori	1984	682	Crypt Bryol Lichen 5(1-2): 182-184, fig 3(a-k) [Austalia, QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1988	429	Nova Hedwigia Beih 90: 148 [Australia: QLD]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (QLD)]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 26: Holotype. Australia, Mt. Lewis, SW of Mossman. 1100 m. 29 Aug. 1982. M. L. Hicks 11115 (NICH 385072).

higuchii Yuzawa, Koike & S.Hatt. 1994 1159

Subgenus: Trachycolea

Typus: Nepal. 1988, M. Higuchi 15853

in hb HIRO [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution: Nepal

	Yuzawa & Hattori in Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 194, fig 1 [close to Fr. benjaminiana from Cameroon Highland, Malaysia]

himalayensis Steph. 1910 1160

Subgenus: Trachycolea

Typus: India. Himalaya, Mussuri (=Musoorie) sd, Gollan

in hb G 7946

Basionym:

Distribution: India (North: Uttaranchal (Mussoorie)), Nepal

spec nov	Stephani	1910	686	Spec Hepat 4: 441-442
	Verdoorn in Handel.Mazzetti	1930	550	Symb Sinicae 5: 38 [as syn nov of Fr. muscicola]
	Kashyap	1932	226	Liverworts of the western Himalayas, Part 2: 17-18
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 149 [Japan, key to Japanese species]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: EH WH]
	Bonner	1965	655	Index Hepat 5: 327
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 66 [Nepal]
	Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 130
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 185 [Mussoorie]
	Hattori	1978	482	J Hatt Bot Lab 44: 545-546, fig 214
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-142, microfiche 52 fig 3536 [from type; "Himalaya (Dehra Dun) Mussuri, Gollan legit"]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Western Himalaya]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 172-173

hiroshii S.Hatt. 1980 1162

Subgenus: Trachycolea

Typus: Taiwan. Mt. Fon-fong, Chi-tou, Nan Tow Hsien, 1200-1600m 25.10.1966. H. Inoue 14793, 14794 [holotype] in hb NICH [holotypus], in hb TNS [isotypus]

Basionym:

Distribution: Taiwan (endemic)

spec nov	Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 34-36, fig 2(a-m)
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 136
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 41-42 [annotated catalogue of China]
	Chao & Lin	1992	460	Yushania 9: 201, fig 8(a-g) [Taiwan]
	Lin & Chen	1997	1130	Biol Bull 75: 90, fig 8(a-e) [Taiwan, key to species, in Taiwanese]
	Lin	2000		Liverwort Flora Taiwan: 161-162, fig p 162(1-5) [Taiwan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 26: Holotype. Taiwan, Nan Tow Hsien, Mt. Fonfong. 1200-1600 m. 25 Oct. 1966. H. Inoue 14794 (NICH 432000).
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

hodgsoniae von Konrat, Braggins, Hentschel & Heinrichs 2010 2425

Subgenus: Diastaloba Diastaloba I

Basionym: Frullania aterrima var. lepida E.A.Hodgs. 1949

Distribution:

	Schuster	1970	761	J Hatt Bot Lab 33: 281-285, fig 2(1-11), 3 (1-6) [illustrations as Neohattoria rostrata]
nom. & stat.nov.	Konrat, Hentschel, Heinrichs, Braggins & Pócs	2010	2377	Nova Hedwigia 91(3-4): 482-488, fig 1, 4, 5 [nom. & stat. Nov.] [Frullania sect. Inconditum]

hohenesteri Schäf.-Verw. et Gerh.Winter 2023 2549

Subgenus: Trachycolea Irregulares

Typus: BRAZIL. Santa Catarina: Serra do Rio do Rastro, Urubici, Waldweide an der Straße zum Morro da Igreja, epiphytisch bei 1650 m 31. Dezember 1990, leg. Schäfer-Verwimp & Verwimp 13564/A

Holotype: JE; isotypes: FR, SP, CAS

Basionym:

Distribution:

spec nov	Schäfer-Verwimp & Winter	2023	6430	Frahmia 39: 1-14

holostipula S.Hatt. & D.G.Griffin 1978 258

Subgenus: Chonanthelia Cladocarpicae

Typus: Venezuela: Dietr. Bocono, paramo de Guaramacal, above town of Boconó, ... , 2500-2600 m -.8.1975, Dana Griffin III et al. 994 in hb GRIFFIN III, FLAS, MER; in hb NICH [holotypus]

Basionym:

Distribution: Venezuela, Bolivia, [expected in Colombia & Ecuador - Gradstein in press]

	Hattori & Griffin III	1978	417	Misc Bryol Lichen 8 (3): 47-48, fig. a-f
	Schuster	1985	441	Phytologia 57 (5): 372 [sect Holostipulae - type species for nov sect]
	Yuzawa, Mues & Hattori	1987	509	J Hatt Bot Lab 63: 425-436 [morphology, systematics]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 244-245, fig. 33, map 6 c(:285)
	Leon, Pocs & Rico	1998	706	Crypt Bryol Lichen 19 (1): 14-15 [Venezuela, Andes]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 2600-3300m: Venezuela]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 26: [as horostipula] Holotype. Venezuela, Bocono Distr., Guaramacal. 2500-2600 m. Aug. 1975.D. Griffin III et at. 994 (NICH 432002).
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)

hottana S.Hatt. 1976 1167

Subgenus: Diastaloba Diastaloba I

Typus: Malaysia. Sarawak, Bintulu Distr, Kakus river, 30-80m 26.2.1964, M. Hotta 15790

in hb NICH

Basionym:

Distribution: Sri Lanka, Malaysia (Sarawak), Borneo

spec nov	Hattori	1976	80	J Hatt Bot Lab 40: 479-481, fig 185 [Sarawak]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Hattori	1986	74	Bull Natn Sci Mus Tokyo, ser B (Bot), 12 (4): 137-138 [Sri Lanka]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 26: Holotype. Borneo, Sarawak, Bintulu Distr., Kakus river. 30-80 m. 26 Feb. 1964. M. Hotta 15790 (NICH 271935).
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]

howeana Steph. 1914 1168

Subgenus: Trachycolea

Typus: Australia. [NSW] Lord Howe Isl, near"Face", E side of Mt. Lidgbird [holotype] -.7.1911, W.W. Watts 62 [holotype] - ?, W.W. Watts 61 [paratype]

in hb G 18215 [holotypus] - in hb MEL [isotypus]
in hb NSW 251029 [isotypus]
in hb MEL (Watts 61) [isoparatypus?]

Basionym:

Distribution: Lord Howe Isl

spec nov	Stephani in Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 107-108 [Lord Howe Isl]
	Stephani	1924	687	Spec Hepat 6: 540 [as spec nov]
	Bonner	1965	655	Index Hepat 5: 330
	Hattori	1979	485	J Hatt Bot Lab 45: 345-346, fig 16(a-h) from type
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 128
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-213, microfiche 53 fig 3625 ["Lord Howe Island (Australia), legit Watts (olim grandifolia St, Name besetzt)"] - 3626
	Hattori	1987	400	Bryologist 90 (4): 367 [Lord Howe Isl]
	Brown, Ramsay & Seur	1992	1140	Telopea 5(1): 75 [types in hb NSW]
	NN	2000	1085	http://plantnet.rbgsyd.nsw.gov.au/HerbLink/NSWtypes/srch.html [isotype in NWS]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 112 [not in Australia, only from Lord Howe Isl]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 28 [only type collection, potentially vulnerable, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]

huerlimannii S.Hatt. 1976 1171

Subgenus: Mammillosae

Typus: New Caledonia. Montagne des Sources, ca. 780m. "along the road, on branch of Nothofagus codonandra" 14.10.1951, H. Hürlimann 2966

in hb GOET 9261 (hb HÜRLIMANN) [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution: New Caledonia

	Hattori	1976	68	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (3): 84-85, fig 2
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 129
	Hattori	1984	503	J Hatt Bot Lab 57: 413 [New Caledonia]
	Hattori	1986	506	J Hatt Bot Lab 60: 227 [New Caledonia)
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 26: Isotype. New Caledonia, Montagne des Sources. 780 m. 14 Oct. 1951. H. Hurlimann 2966 (NICH 425480).

huerlimannii var. dioica S.Hatt. 1984 1173

Subgenus: Mammillosae

Basionym:

Distribution: New Caledonia

var nov	Hattori	1984	503	J Hatt Bot Lab 57: 413 [No 13a]
	Hattori	1986	506	J Hatt Bot Lab 60: 227 [New Caledonia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 26: Holotype. New Caledonia, Valley near Tao. 10 m. 27 July 1982. N. Kitagawa 21850 (NICH 387932).

humbertii Vanden Berghen 1976 1174

Subgenus: Diastaloba

Typus: Madagaskar. Mont Beoudroka, 1000-1450m 17.-22.3.1949, Humbert 23425

PC [holotypus]

Basionym:

Distribution: Madagascar, Reunion Isl

spec nov	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 24-26, dig 5(A-G)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 336 [map of Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 211 [key to Madagascar]
	Grolle	1995	250	Bryophyt Bibl 48: 66 [afr3]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Madagascar, Reunion] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Madagascar, Reunion] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]

humilis Spruce 1890 1175

Subgenus: Meteoriopsis Intumescentes

Typus: Bolivia. near Yunga sd, H.H. Rusby 3061

Basionym:

Distribution: Bolivia

spec nov	Spruce	1890	898	Mem Torrey Bot Club 1: 119
	Stephani	1911	686	Spec Hepat 4: 536
	Bonner	1965	655	Index Hepat 5: 330

hypoleuca Nees 1843 1176

Subgenus: Caulisequa

Typus: Hawaii. Oahu sd, Meyen sn

in hb STR (hb NEES) [holotypus]
in hb S-PA, [isotypus] in hb PC-0033445 [isotypus]
in hb S-B24139 as Fr meyeniana [ex hb MEYEN] [isotypus]
in hb W-7387 [isotypus]

Basionym:

Distribution: China (Yunnan), Taiwan, Japan, Thailand, Vietnam, Sri Lanka, Singapore, Malaysia (Sarawak, Sabah), Borneo, Indonesia (Java, Sumatra, Irian Jaya), New Guinea, Australia(QLD, NSW), New Zealand?, Palau Isl, Micronesia [=Caroline Isl] (Pingelap, Ponape), Samoa (Upolu), Fiji (Ovalau), Society Isl (Tahiti), Hawaii (Kauai, Oahu, Molokai, West Maui)

spec nov	Nees in Gottsche, Lindenberg & Nees	1843	568	Verh K Leop-Carol Akad Naturforsch 19, suppl 1: 470-471
	Nees in G., L. & N.	1845	2850	Syn Hepat: 443
	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 163 [New Zealand]
	Hooker	1867	1154	Handbook New Zealand Flora: 537 [New Zealand, N Island]
	Mitten in Seemann	1871	637	Flora Vitiensis: 417 [Hawaii, Sandwich Isl]
	Stephani	1897	214	Bull Herb Boissier 5: 842[:260] [Hawaii]
	Evans	1900	236	Trans Connet Acad Arts Sci 10 (1): 404-405, pl 47 fig 1-11
	Stephani	1910	217	Denkschr K Akad Wiss, Math Nat Kl, Wien 85: 193 [Hawaii]
	Stephani	1911	686	Spec Hepat 4: 654-655
	Verdoorn	1929	245	Ann Bryol 2: 145-146, fig 6 [Java, Singapore]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 126-128, fig 197-199, 224
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 497 [Sumatra]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 62 [Malay Peninsula]
	Nicholson	1942	679	Rev Bryol Lichen 13: 143 [Hawaii]
	Miller	1953	349	Bryologist 56: 47-48
	Miller, Whittier & Bonner	1963	2409	Beih Nova Hedwigia 11: 44-45 [Caroline Isl, new to Micronesia], pl 15
	Miller	1963	834	Ark Bot, ser 2, 5: 519-520 [Hawaii]
	Bonner	1965	655	Index Hepat 5: 331 [Hawaii]
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 82 [new to Borneo, Mt. Kinabalu]
	Hattori	1975	547	J Hatt Bot Lab 39: 290
	Hattori	1976	80	J Hatt Bot Lab 40: 481
	Hattori	1980	489	J Hatt Bot Lab 47: 121-122, fig 238(a-h) from isotype
	Hattori	1981	492	J Hatt Bot Lab 49: 372-373
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Hattori	1982	495	J Hatt Bot Lab 51: 236
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 129
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-64, microfiche 49 fig 3305-3306 ["Hawaii, leg F L Clarke 1886, inter Herpocladium"]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 109 [New Guinea]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 155 [China]
	Yamada, Yuzawa, Ogasawara & Lai	1986	950	J Taiwan Mus 39 (1): 63 [Taiwan]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 38
	Hattori	1987	402	Mem NY Bot Gard 45: 545, fig 1 [Australia]
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Piippo	1990	521	J Hatt Bot Lab 68: 42 [annotated catalogue of China]
	Schuster	1992	603	Hepat N America 5: 118 [syn sub Fr. gymnotis]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 429 [China, Yunnan]
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 4-6, fig 4(a-p) [Japan, keys to species; in Japanese]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 131, fig. 59(1-4)
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 12 [initial branching appendages]
	Konrat & Braggins	2001	838	J Hatt Bot Lab 91: 250-256, fig7(a1-j1), 8(1-7)

	Bai	2001	1742	Guizhou Science 19(4): 49 [China, Yunnan]
	Wu, Jia & Wang	2002	1188	Chenia 7: 189 [Yunnan & Taiwan]
	Bai	2002	1189	Chenia 7: 22 [Yunnan, China]
	Piippo, He, Juslen, Tan, Murphy & Pocs	2002	1002	Ann Bot Fennici 39: 114 [Singapore]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia(QLD, NSW)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Staples & Imada	2006	1716	Trop bryol 28: 27 [Hawaii]
	So & Wang	2006	1466	J H B L 100: 423-424, fig 2(a-d) [Hawai, key to Hawaiian species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 30 [Catalog of Japan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 34-36, fig 12(a-i) [checklist & revision of genus Fullania, Thailand]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]
	Winter & Schäfer-Verwimp	2020	5742	Frahmia 19: 18 [sgn. Caulisequa, key]

hypoleucula S.Hatt. 1984 1181

Subgenus: Diastaloba

Basionym:

Distribution: New Caledonia, Micronesia

spec nov	Hattori	1984	503	J Hatt Bot Lab 57: 413-415,
	Hattori	1986	506	J Hatt Bot Lab 60: 223-224
	Koike	1994	37	J Hatt Bot Lab 75: 184, fig 1 [Micronesia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 27: Holotype. New Caledonia, Mont Panie. 250-500 m. On tree trunk. 28 July 1982. N. Kitagawa 21888 (NICH 387976).

ignatovii Sofronova, Mamontov & Potemkin 2013 2471

Subgenus: Trachycolea

Typus: Russia, Republic of Buryatia, Kurumkanskiy District, Dzherginskiy State Reserve, Yuzhno-Mujsky Range, Upper Barguzin River (55°07' N, 111°53' E), 1618 m alt. 01.08.2013, Yu. S. Mamontov, № YuSM-384-8

holotype—LE, isotypes—KPABG, SASY, MHA, JE, TNS, HSNU

Basionym:

Distribution:

spec nov	Sofronova, Mamontov. & Potemkin	2013	4285	Novosti Sist. Nizš. Rast. 47: 335
	Sofronova, Mamontov. & Potemkin	2014	3883	http://binran.ru/files/journals/NSNR_Example_Manuscript.pdf

imerinensis Steph. 1911 1182

Subgenus: Meteoriopsis Obtusilobae

Typus: Madagascar. Imerina, Anduangoloaka -.11.1880, Hildebrandt
in hb G & Stephani, Icones Hepat Inedit 1723
Basionym:

Distribution: Rwanda, Madagascar, Seychelles (Mahé Isl)

	Britton	1889	2441	Catalogue of plants in New Jersey [USA, New Jersey]: 347
spec nov	Stephani	1911	686	Spec Hepat 4: 484-485
	Bonner	1965	655	Index Hepat 5: 332
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 63- 66, fig 16(A-P)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 345 [map of Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 210 [key to Madagascar]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 21, microfiche 56 fig 3899 ["Madagascar, Imerina, leg 1888, Hildebrandt leg"]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Rwanda]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles (Mahé Isl)]
	Grolle	1995	250	Bryophyt Bibl 48: 66 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 88 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Madagascar, Rwanda, Seychelles] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Madagascar, Rwanda, Seychelles] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

immersa Steph. 1896 1183

Subgenus: Saccophora

Typus: Samoa, 4500ft sd, Reinecke 28 ("R. n. 48")
in hb G
in hb E E00002536 (15.10.1894, Reinecke 48) [isotypus]
Basionym:

Distribution: Malaysia (Malay Pen), New Guinea (Papua New Guinea, Irian Jaya), Indonesia, Vanuatu (Aneityum, Futuna), Samoa (Upolu, Savaii), Fiji (Vanua Levu, Viti Levu)

spec nov	Stephani in Reinecke	1896	1044	Bot Jahrb 23: 315 [Samoa] ("R. n. 48")
	Stephani	1911	686	Spec Hepat 4: 554-555 [as spec nov; = sgen Frullania]]
	Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 108 [Aneityum]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Verdoorn	1930	293	Ann Bryol Suppl 1: 94
	Verdoorn	1937	556	Blumea suppl 1: 212 [Fiji Isl]
	Bonner	1965	655	Index Hepat 5: 332
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
- syn nov	Hattori	1972	538	J Hatt Bot Lab 36: 127-128 [syn sub Fr. gaudichaudii]
	Grolle & Schultze-Motel	1972	537	J Hatt Bot Lab 36: 83 [Samoa]
	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 142-144, fig 159 [comb nov = Fr. gaudichaudii ssp. immersa (ST) HATT]
	Hattori	1975	547	J Hatt Bot Lab 39: 290
	Hattori	1981	492	J Hatt Bot Lab 49: 373-375, fig 9(a-i) from type of Fr rechingeri [key to Fr. gaudichaudii & immersa], 381 [key to Fr. pancheri & immersa)
	Hattori	1982	495	J Hatt Bot Lab 51: 243
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 129
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 15, fig 2(g-h) [Fiji; key to Fr. immersa & gaudichaudii]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-171ab, microfiche 59 fig 4112 ["Samoa, Reinecke 48"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 42
	Hattori	1988	516	J Hatt Bot Lab 65: 431 [PNG]

incisoduthiana var. parva S.Hatt. 1979 1187

Subgenus: Trachycolea

Typus: Nepal

Basionym:

Distribution: Nepal

var nov	Hattori in Mizutani	1979	488	J Hatt Bot Lab 46: 391 [Central Nepal]
	Hattori	1982	132	J Jap Bot 57 (10): 301-302, fig 2(i-n) [close to Fr. duthiana]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 173
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 27: Holotype. Nepal, The Annapurna Range, Lamjung Himal. 3600 m. On Rhododendron. 2 May 1976. S. Kunisawa (NICH 350072).

incisostipula Steph. 1924 1188

Subgenus: Trachycolea

Typus: Mexico. 1913, Arsen 7797

in hb G

Basionym:

Distribution: Mexico

spec nov	Stephani	1924	687	Spec Hepat 6: 541
	Bonner	1965	655	Index Hepat 5: 332
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 64, microfiche 50 fig 3425 [from type; "Mexico, Arsén 7797"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 43 [Mexico]

inconstans fo. integrior Verd. 1930 1190

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Irian Jaya, New Guinea. Jayawijaya, Mt. Goliath, 1950-3000m -.4.1911, de Kock 5

in hb VERDOORN, FH

Basionym:

Distribution: New Guinea (Irian Jaya), Indonesia

	Verdoorn	1930	293	Ann Bryol Suppl 1: 84
	Verdoorn	1930	549	Nova Guinea 14 (4): 544
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 58 [Netherl Neu Guinea]
	Bonner	1965	655	Index Hepat 5: 333
	Hattori	1982	495	J Hatt Bot Lab 51: 218-219
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 29

inconstans var. grossedentata Kamim. & S.Hatt. 1973 1191

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia, Irian Jaya. New Guinea. Antares Mt., 3000m 20.7.1959, van Zanten 643

in hb NICH 234739 [holotypus], in hb L [isotypus], in hb UNIV MICHIGAN: [isosyntypus ?]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

var nov	Kamimura & Hattori	1973	543	J Hatt Bot Lab 37: 530-531, fig 10 [Antares Mt.]
	Hattori	1982	495	J Hatt Bot Lab 51: 219 [Mt. Hagen]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 30
	Hattori	1988	516	J Hatt Bot Lab 65: 432 [PNG]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 27: Holotype. New Guinea, W. Irian, Antares Mts. 3000 m. 20 July 1959. B. 0. van Zanten 643 (NICH 234739).

inconstans Verd. 1930 1189

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea. Mt. Goliath, 1950-3000m -.4.1911, de Kock, 10, 13, 26 or 30 (lectotype ?), 297

hb VERDOORN 9134, FH [lectotye by HATTORI 1973]
in hb G 14037 [isolectotypus],
in hb MICH MICH514766 [isosyntypus ?] > see fr1189.jpg
in hb GOET 7258 (De Kock 297) - in hb US - in hb UC - in hb NICH - in hb COLO

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

spec nov	Verdoorn	1930	549	Nova Guinea 14 (4): 543-544, pl 93(11-13)
	Verdoorn	1930	293	Ann Bryol Suppl 1: 83-84, fig 120-121
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 58 [Netherl Neu Guinea]
	Verdoorn	1933	233	Ann Bryol 6: 96 [Hepat select crit, ser 5 & 6 no 297; Nova Guinea] & 104
	Hattori & Noguchi	1960	965	Index spec Typ herb Japon, Bryophyta: 17 [isotype]
	Bonner	1965	655	Index Hepat 5: 332
	Hattori	1973	542	J Hatt Bot Lab 37: 142-145, fig 82-83
	Kamimura & Hattori	1973	543	J Hatt Bot Lab 37: 531
	Hattori	1974	546	J Hatt Bot Lab 38: 241
	Hattori	1982	495	J Hatt Bot Lab 51: 218
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 29
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 19 of 35 [in hb US]
	Fogel	1997	629	http://141.211.110.91/livrqury.htm [16.11.1997] - Genus=Frullania, printed 5.1.1998 11:11:38: page 2 of 3
	N.N.	2003	978	http://ucjeps.berkeley.edu/bryolab/moss_types.html [syntype ? In hb UC]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 27: Isotype. Dutchi New Guinea, in mte.Goliath. 2800 m. Apr. 1911. Kock (NICH 225090).
	NN	2011	2627	COLO Bryophyte Type Specimens (entire label information). - in hb COLO [isotype] B-77905 BarCode: 963538

incumbens Mitt. 1855 1192

Subgenus: Trachycolea Australes

Typus: New Zealand. Northern Isl, Wairarapa Valley, bark of Sophora (as Edwardsia), Wairarapa valley. sd, Colenso 1253 [c.per.]

in hb MITTEN NY (hb MITTEN) [lectotypus by Konrat & Braggins 2001]
in hb WELT (c. per.) [isolectotypus]
in hb E E00002538 (Colenso A177) - E00002537 (Colenso sn) [isosyntypus]

Basionym:

Distribution: Australia (NSW, ACT, VIC), Tasmania, New Zealand (North Isl, South Isl)

spec nov	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 162, pl 104(6) [New Zealand]
	Hooker	1867	1154	Handbook New Zealand Flora: 537-538 [New Zealand, N Island]
	Stephani	1910	686	Spec Hepat 4: 406-407 [as Trachycolea]
	Bonner	1965	655	Index Hepat 5: 333
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Allison & Child	1975	690	Liverw New Zealand: 212-213, fig(a-c)
	Hattori	1983	499	J Hatt Bot Lab 54: 150-151, fig 58
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-264ab, microfiche 54 fig 3686 ["Neu Seeland, leg Colenso, Curnow 8"] - 3687 ["New Zealand"]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Braggins	2001	838	J Hatt Bot Lab 91: 230-235, fig 1(a-j), 2(1-6) [Australia; lectotypification]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (NSW, ACT, VIC, TAS)]
	Meagher	2003	1133	Australasian Bryol Newsletter 47(June 2003): 5 [Australia (VIC)]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 246 [field guide, Tasmania, Victoria, New South Wales]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 441-442 [chemosystematic; sesquiterpene lactone-type]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 4th of 6 pages[Key to Frullania of New Zealand]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia NSW ACT VIC TAS]

incurva S.Hatt. 1988 1193

Subgenus: Diastaloba

Typus: PNG. Neu Guinea. Central District, Woitape, 1500m 16.10.1975, HI 30241[holotype], 30340 [paratype]

in hb NICH [holotypus], in hb TNS [isotypus]

Basionym:

Distribution: New Guinea [Papua New Guinea]

	Hattori	1988	516	J Hatt Bot Lab 65: 431-434, fig 7 & 8
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 27: Holotype. Papua New Guinea, Central District, Woitape. 1500 m. 16 Oct. 1975. H. Inoue 30247 (NICH 431935). Isotype specimen: NICH 428168.

inflata Gottsche 1845 [non Herzog 1921] 1194

Subgenus: Chonanthelia Inflatae

Typus: USA. North America, "Whastite, Red River" 1834, C. Beyrich

in hb S-PA (hb LEHMANNIANUM) [lectotypus by GROLLE 1970]
in hb S (B24082, 24083) [isotypus]
in hb GLM (hb LEHMANN) 06022

Basionym:

Distribution: Switzerland, Italy, Hungary, Tschechian Rep., Albania, Slowenia, Canada (AB), USA (CT VT CO NM SD UT AZ CA NE NJ VA TN FL OH MN TX), Mexico, Revillagigedo Isl [Mexico], Nicaragua, Guadeloupe, Russia (Far East), Sakhalin, China (Hubei, Anhui, Inner Mongolia, Shandong, Jiangsu, Yunnan, Sichuan, Zhejiang, Fujian), Taiwan, Japan, Korea (South), Pakistan, India (North: Assam, Meghalaya)

spec nov	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 424-425
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 10-11, pl 3
	Stephani	1910	686	Spec Hepat 4: 434-435
	Schiffner	1910	436	Österr Bot Zeitschr 60 (11): 432-433
	Evans	1923	865	Bryologist 26: 65-67
	Kurz & Little	1933	1349	Liverworts North & Central Florida: 14, fig 20 [key to species of Florida, USA]
	Clark & Svihla	1944	312	Bryologist 47: 196-199, fig 1-19
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 764-768, fig Fr.i.(1-12)
	Clark & Svihla	1948	325	Bryologist 51: 24 [key to Fr. of Middle America: United States, Mexico]
	Schuster	1953	604	Amer Midl Nat 49 (2): 561-563, fig 6(3-4)
	Clark	1953	1106	Proc California Acad Sci 4 ser, 27 (18): 663 [Revillagigedo Isl, Guadalupe Isl, Nicaragua]
	McGregor	1955	2240	Univ Kansas Sci, Bull 37(3): 79-81 [USA, Kansas -most common]
	Vajda	1956	2684	Bot Közlem 47: 104-106 [mediterrane Frullania inflata GOTTSCHE = F. cleistostoma SCHIFFNER & WOLLNY]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1253-1255, fig 489(a-i)
	Flowers	1961	1113	Univ Utah Biol ser 12 (2): 84, pl 18(17-24) [USA: Utah]
	Pospisil	1962	953	Acta Musei Moraviae 37: 109-114 (Tschechoslowakei]
	Kitagawa	1963	626	Acta Phytotax Geobot 19: 150 [Sakhalin]
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 317-319 [key to europa & macaronesia]
	Kamimura	1971	3708	Bull Kochi Gakuen J Coll 2: 30-31 [USA, Texas]
	Yamada	1974	406	Misc Bryol Lichen 6 (9): 162-164, fig 1(a-c) [sytematics]
	Grolle	1976	183	Feddes Repert 87 (3/4): 194 [types]
	Inoue	1976	734	Illust Jap Hep 2: 66-67, pl 33(1-7), foto, map of Japan
	Inoue	1976	734	Illustrations of Japanese Hepaticae, vol 2: 66-67, fig 33(1-7)
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 185 [Khasi and Jaintia Hills, Bidon Falls, Shillong] new to India
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 733-734 [South Korea]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 256 [Japan]
	Düll	1983	620	Bryol Beitr 2: 67 [Europe & Macaronesia]
	Grolle	1983	144	J Bryol 12: 421 [checklist Europe]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 88ab, microfiche 51 fig 3463 ["Am septem, Evans tab 3"] - 3464 [""America septentr, Luisana Texas"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 136 [China]
	Schuster	1985	441	Phytologia 57 (5): 372 [sect Trachycolea, ssect Inflatae - type species for nov ssect]
	Bisang	1985	102	Bot Helvetica 95 (2): 247-278, map [Switzerland]
	Hong	1987	689	Bryologist 92 (3): 365-366 [N America]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 259 [key to Europe & Macaronesia]
	Hong	1989	689	Bryologist 92 (3): 365-366 [key to N-American species]
	Zhu	1990		Acta Bryolichen Asiatica 2(1/2): <25-32>[aus 698]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 43 [Mexico]
	Piippo	1990	521	J Hatt Bot Lab 68: 42 [annotated catalogue of China]
	Crum	1991	1018	Liverw Hornw Southern Michigan: 99-100, fig 94b [USA, Michigan]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 135, fig 74(1-4), map 96 [USA: North Carolina]
	Schuster	1992	603	Hepat N America 5: 185 [key to var]
	Schuster	1992	603	Hepat N America 5: 196-206, fig 805 [= Fr. saxicola, sensu EVANS]
	Bai	1993	1225	Chenia 1: 94 [China, Inner Mongolia]

	Zaho, Fan, Wie & Lu	1993	1224	Chenia 1: 120 [China, Shandong Prov]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
	ECCB	1995	1431	Red Data Book European Bryophytes: 54 [Status vulnerable V]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 116 [key to european species]
	Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [new to Sichuan]
	Timme & Redfearn	1997	1134	http://biology.smsu.edu/herbarium/liverw_t.htm [printed 20.6.2004 page 10 of 19; USA]
	Timme & Redfearn	1997	631	http://science.smsu.edu/~csre/herbarium/liverw_t.htm [4.6.97] printed 15.1.98 12:34 page 3 of 6 [USA]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula]
	Timme & Redfearn	1997	748	Evansia 14(3): 95
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 166 [China; synopsis of Zhejiang]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia] & 124 [Fr. illyrica = syn]
	Peng, Enroth, Koponen & Piippo	2000	776	Hikobia 13: 196 [China: Hubei Prov]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 395-397 [China, Yunnan]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 173
	Toyota, Kondo, Konoshima & Asakawa	2000	1198	J Hatt Bot Lab 89: 289-297 [Chemical constituents]
	Dierssen	2001	779	Bryophyt Bibl 56: 216 [ecology in European bryophytes]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281, pl 163(1) [with key to Japan, in Japanese]
	Vaoa	2001	1551	ECCB Red Listing of European Bryophytes. [Lower Risk (near threatened) (earlier Vulnerable)] - http://www.bio.ntnu.no/ECCB/Red/Hepatophyta/Frullania%20inflata.pdf
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 16-19, fig 15(a-t) [Japan, keys to species; in Japanese]
	Grims	2001	1136	Moosherbar in hb LINZ [Internet]
	Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (CT VT)]
	Bai	2001	1742	Guizhou Science 19(4): 39 [China, Yunnan]
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 276-277, map 11 - Unpublished thesis.
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	Geisller, Bagutti, Bisang, Müller, Schnyder, Schubiger-Bossard & Urmi	2002	1003	Herzogia 15: 201-202, fig 10 [distribution & map of Switzerland and Lichtenstein]
	Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, Fujian Prov.]
	Li & Zhao	2002	1190	Chenia 7: 117 [China, Hubei]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Bai	2002	1189	Chenia 7: 9-10 [Yunnan, China]
	Papp, Ódor & Szurdoki	2003	1656	Acta Acad Paed Agriensis, NS, sect Biol 24: 189-200 [Fr inflata is considered as critically endangered (CR) species in Hungary]
	Weber & Wittmann	2003	1017	http://spot.colorado.edu/~weberw/hepatics2003.pdf, p. 26 [USA, Colorado]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Lyman	2003	1268	Checklist of Wisconsin bryophytes [USA]
	Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
	Davison & Keller	2004	1168	Evansia 21 (2): 84 [USA, Great Smoky Mts NP]
	Erzberger &Papp	2004	1326	Studia Bot Hung 35: 102 [Hungary]
	Kawasumi	2005	1378	Bull Kanagawa Prefectural Mus, natural science 26: 26 [Japan]
	Sasaki	2005	1379	Bull Kanagawa Prefectural Mus, natural science 26: 37 [Japan]
	NN	2005	1395	[in Russian] page 2 of 3
	Song & Yamada	2006	1445	J H B L 100: 445 [from Jeju (Cheju) Isl, Korea]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 30 [Catalog of Japan]
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Albania, Italy, Slovenia]
	Lincoln	2008	1712	Memoir New York Bot Gard 99: 125 [New England States, USA]
	Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]

Yano	2008	1684	Boletim Instituto Botanica 19: 90 [syn sub Fr riojaneirensis; Brazil; catalog]
Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 76, fig 1[map], [India, Meghalaya, Eastern Himalayas]
Konstantinova & Bakalin	2009	2113	Arctoa 18: 14-15 [Checklist of liverworts of Russia: SIB, FAR EAST]
Papp, Erzberger, Ódor, Hock, Szövényi, Szurdoki & Tóth	2010	2852	Studia bot. Hung. 41: 35 [checklist Hungary, status EN Endangered (RDB: VU Vulnerable, number of populations 3, PAPP 2008]
Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 72 [ecology]
Mamontov, Potemkin, et al	2018	4978	Novosti sistematiki nizshikh rastenii 52(2): 491 [Fr. cleistostoma = valid species, F. inflata for the Altai and Transbaikalian territories, the Republics of Altai and Tyva, as well as Mongolia. belong to Fr. cleistostoma
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts] [annotation105]
Mamontov et al	2020	5641	

inflata var. communis R.M.Schust. 1985 1200

Subgenus: Incertae sedis

Typus: USA. North Carolina,Columbus Co., E of Whiteville Schuster & Blomquist 29231

Basionym:

Distribution: USA (CT DE MD DC VA NC WV TN SC FL AL MS LA TX OH MI WI MN IA SD KS)

var nov	Schuster	1985	441	Phytologia 57 (5): 372 [var nov]
	Schuster	1992	603	Hepat N America 5: 206-210, fig 806, 808(1-9)

inflexa Mitt. 1861 1211

Subgenus: Trachycolea Australes

Typus: Sikkim. "Frullania. fir woods. Drallanchora", 11000ft - India. Sikkim. [Wallamchora]? (not clear if this word is part of the locality). See location note. Alt. 11000 ft. (3353 m.) sd, J.D. Hooker 1429

in hb NY 1048605 (hb W. MITTEN, with drawing) [holotypus]

Basionym:

Distribution: China (Sichuan, Xizang, Zhejiang, Yunnan, Shandong), Taiwan, Korea, Japan, Sikkim, Bhutan, India (North: West Bengal (Darjeeling), Assam, Meghalaya; South: Karnataka), Nepal

spec nov	Mitten	1861	574	J Linn Soc Bot 5: 120 [Sikkim]
	Stephani	1911	686	Spec Hepat 4: 557
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: EH]
	Bonner	1965	655	Index Hepat 5: 334
	Hattori	1975	47	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (2): 76-77 [India; Ann Bryol out Mitten´s specimen]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 185 [Assam]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 322 [Easter Nepal]
	Inoue	1981	963	Mem Natn Sci Mus Tokyo 14: 65 [Japan, Mt. Fuji]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 256 [Japan]
	Hattori	1982	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 99 [China]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 153 [China]
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 42 [annotated catalogue of China]
	Zaho, Fan, Wie & Lu	1993	1224	Chenia 1: 120 [China, Shandong Prov]
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 194 [Nepal]
	Yi, Liu & Lang	1994	1227	Chenia 2: 109 [China, Shandong Prov]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya, Nepal]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [Sichuan]
	Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 151 [Yunnan, China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Nath & Asthana	1998	708	J Hatt Bot Lab 85: 68, fig 3(1-15) [South India; key to all spec.]
	Nath & Asthana	1998	683	J Bryol 20(1): 233-237 [South India]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 425, fig 213(1-10) [China, Yunnan]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 187, fig 171(a-c)
	Bai	2001	1742	Guizhou Science 19(4): 49 [China, Yunnan]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281, pl 163(6) [with key to Japan, in Japanese]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 43, fig 37(a-r) [Japan, keys to species; in Japanese]
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 17 [Nepal, 2700-3899 m]
	Bai	2002	1189	Chenia 7: 21 [Yunnan, China]
	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 251-252, pl 49 (21-37), map 11 - Unpublished thesis.
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1129, fig 529(1-10) [China]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 30 [Catalog of Japan]
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 59-60, fig 1[map], 3(21-37) [key, India, Meghalaya, Eastern Himalayas]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 242(1-10) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]
	Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 406-408, fig 148(a-o) [India (Western Ghats, keys]

inflexiloba S.Hatt. 1984 1215

Subgenus: Trachycolea

Typus: New Caledonia

Basionym:

Distribution: New Caledonia

	Hattori	1984	503	J Hatt Bot Lab 57: 415-416, fig 4-5
	Hattori	1986	506	J Hatt Bot Lab 60: 214, fig 2(k-l)
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 27: Holotype. New Caledonia, N of Paita, Mont Mou. 850 m. 21 July 1982. N. Kitagawa 21416 (NICH 387527).

inouei S.Hatt. 1980 1216

Subgenus: Trachycolea

Typus: Taiwan. Tai.ping, Ilan Hsien, ca. 200m 5.5.1966, H. Inoue 17276 [holotype], 17289, 17303, 17323 in hb NICH [holotypus], in hb TNS [isotypus]

Basionym:

Distribution: China (Yunnan, Sichuan), Taiwan

spec nov	Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 36-38, fig 3(a-j)
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 136 [key)
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 42 [annotated catalogue of China]
	Chao, Lin & Chan	1992	459	Yushania 9: 16, fig 4(a-g) [Taiwan, abies forest]
	Chao & Lin	1992	460	Yushania 9: 201-204, fig 9(a-o) [Taiwan]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [new to Sichuan]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 414, fig 208(1-6) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 39, fig 5(1-6) [China, Yunnan]
	Bai	2002	1189	Chenia 7: 11, fig 5(1-6) [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1119-1122, fig 524(1-6) [China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type specimens Hatt Bot Lab (NICH) 27: Holotype. Taiwan, Taiping Shan. 2000 m. 5 Mar. 1966. H. Inoue 17276 (NICH 432003).
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 226(1-6) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

integristipula (Nees) Nees 1845 9

Subgenus: Homotropantha Homotropantha

Basionym: Jungermannia integristipula Nees 1830

Distribution: Malaysia (Kedah, Pahang, Penang, Perak, Johor, Kelantan, Negeri Sembilan, Sarawak, Sabah), Borneo, Indonesia (Sumatra, Java, Halmahera, Sulawesi), Philippines, New Guinea

comb nov	Ness in G., L. & N.	1845	2850	Syn Hepat: 431-432
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 538
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 83
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 312 [Java, Sumatra]
	Sande Lacoste in Veth	1884	807	Midden Sumatra, Reizen en Qnderzoekingen der Sumatra Expeditie, 4 (2): 44 [Sumatra]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 328-329
	Merrill	1906	1497	Philippine J Sci 1, suppl 1: 11 [Philippines: Lamao forest reserve]
	Stephani	1911	686	Spec Hepat 4: 582
	Verdoorn	1928	242	Rev Bryol NS 1: 117-118, fig 10, 11
	Verdoorn	1929	245	Ann Bryol 2: 152 [Java, Sumatra]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 174-176, fig 275, 292, 293
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 98; Java]& 150
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 63 [Malay Peninsula, Java]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 500 [Borneo]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 210 [Malay Halbinsel, Sarawak]
	Nicholson	1942	679	Rev Bryol Lichen 13: 144 [Hawaii specimens = Fr. hypoleuca]
	Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 318 [Borneo, Sarawak]
	Bonner	1965	655	Index Hepat 5: 335
	Tixier	1972	4818	The Gardens' Bulletin Singapore 26: 143 as4: Philippines (Luzon ,Mount Maquiling)
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 77 [new to Borneo, Mt. Kinabalu]
	Tixier	1974	4193	Natural History Bulletin of the Siam Society 25(3&4): 24 [Malaysia - Kedah Peak]
	Hattori	1976	80	J Hatt Bot Lab 40: 481
	Hattori	1980	490	J Hatt Bot Lab 47: 228- , fig 1(q), 39-41(a-d)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-23, microfiche 54 fig 3737 ["Java, leg Zippelius"] - 3738
	Tan & Engel	1986	4286	J. Hattori Bot. Lab. 60:302 [Checklist Philippines]
	Hattori in Piippo	1986	946	Ann Bot Fennici 23: 10 [Frieda River, New Guinea]
	Menzel	1988	512	J Hatt Bot Lab 65: 163 [Cat Borneo]
	Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
	Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Asiatic, lowland & montane]
	Söderström et al	2010	2314	Phytotaxa 9: 74 [Checklist Java]
	Chuah-Petiot	2011	3242	Polish Botanical Journal 56(1):20 [Checklist Malaysia] Kedah, Pahang, Polish Botanical Journal 56(1):20 [Checklist Malaysia: Kedah, Pahang,Johore, Sabah]
	Gradstein	2011	3250	Guide to the Liverworts and Hornworts of Java. 28 [Key Java]
	Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 25, photos [Sumatra, with key]
	Lukitasari	2018	6020	Mengenal tumbuhan lumut (Bryophyta) 203 [Key in Malayan]
	Lee et al	2022	6217	PhytoKeys 199: 49 [Checklist Malaysia: Penang, Perak, Kelantan, Negeri Sembilan, Johor, Sarawak, Sabah]

integristipula var. emarginata Verd. 1929 46

Subgenus: Homotropantha Homotropantha

Typus: Indonesia. Sumatra, Mt. Singalang 0.7.1894, Schiffner 2439 /or 2440 /or 2441

Basionym:

Distribution: Laos, Malaysia (Kedah, Pahang, Johor, Sarawak, Sabah), Borneo, Indonesia (Sumatra, Java, Halmahera, Irian Jaya), Philippines, Neu Guinea

Verdoorn	1929	245	Ann Bryol 2: 153, fig 9
Verdoorn	1930	293	Ann Bryol Suppl 1: 176, fig 276(:159)
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 64 [Sumatra]
Verdoorn	1934	241	Ann Bryol Suppl 4: 210 [Siam]
Bonner	1965	655	Index Hepat 5: 335
Hattori	1980	490	J Hatt Bot Lab 47: 231-232, fig 42
Hattori	1982	495	J Hatt Bot Lab 51: 238
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 39
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302 [Philippines]
Söderström et al	2010	2314	Phytotaxa 9: 74 [Checklist Java]
Chuah-Petiot	2011	3242	Polish Botanical Journal 56(1):20 [Checklist Malaysia] Peninsula Malaysia
Söderström et al	2020	5820	Bryophyte Diversity and Evolution 42(1):19-31 [Laos]

intermedia (Reinw., Blume & Nees) Nees 1845 13

Subgenus: Homotropantha Fallaces

Basionym: Jungermannia intermedia Reinw., Blume & Nees 1824

Distribution: India (South India), Andaman Isl [India], Sri Lanka, Thailand, Singapore, Malaysia (Penang, Perak, Kelantan, Negeri Sembilan, Johor, Sarawak, Sabah), Borneo, Indonesia (Sumatra, Banca, Java, Moluccas I), Philippines, New Guinea Vanuata (Tanna, Aneityum), Samoa, Fiji (Kandavu, Viti Levu), New Caledonia

	Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
comb nov	Nees in G., L. & N.	1845	2850	Syn Hepat: 434
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 83-84
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 313 [Java, Banca]
	Mitten in Seemann	1871	637	Flora Vitiensis: 417 [Aneitum]
	Stephani in Reinecke	1896	1044	Bot Jahrb 23: 314 [Samoa]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 329
	Stephani	1911	686	Spec Hepat 4: 584-585
	Verdoorn	1928	242	Rev Bryol NS 1: 112, fig 1
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Verdoorn	1930	293	Ann Bryol Suppl 1: 161-164, fig 286
	Verdoorn	1930	549	Nova Guinea 14 (4): 546
	Verdoorn	1934	241	Ann Bryol Suppl 4: 210 [Malay Peninsula, B.N. Borneo: Mt Kinabalu, Ostborneo, Sarawak, New Guinea] & 217, fig 22 [map]
	Verdoorn	1937	556	Blumea suppl 1: 213 [Malay Peninsula, Fiji Isl]
	Clark & Frye	1948	326	Bryologist 51: 52-54, fig 1-14
	Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 318 [Borneo, Sarawak]
	Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
	Bonner	1965	655	Index Hepat 5: 335
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Grolle & Schultze-Motel	1972	537	J Hatt Bot Lab 36: 83 [Samoa]
	Tixier	1973	678	Bull Mus Nat Hist Nat Paris, ser 3, 190, Bot 10: 82 [New Hebrides (Tanna, Anotom) = Vanuatu (Aneityum, Tanna)]
	Hattori	1975	547	J Hatt Bot Lab 39: 290-291 [Thailand]
	Hattori	1976	80	J Hatt Bot Lab 40: 481-483, fig 186(a-d), 191(e-g), 200(q)
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 446 [Thailand]
	Hattori	1977	479	J Hatt Bot Lab 43: 423 [New Caledonia]
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Hattori	1980	490	J Hatt Bot Lab 47: 187-195, fig 1, 13-16
	Hattori	1982	495	J Hatt Bot Lab 51: 238-239
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 129-130
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori	1984	503	J Hatt Bot Lab 57: 416
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 109 [New Guinea]
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 15 [Fiji]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-24, microfiche 54 fig 3739 ["Java (Zollinger leg)"] - 3740
	Hattori	1986	506	J Hatt Bot Lab 60: 220-221
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 39-40
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302 [Philippines]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Nath & Asthana	1998	683	J Bryol 20(1): 233 [South India]
	Nath & Asthana	1998	708	J Hatt Bot Lab 85: 75, fig 6(13-17) [South India, Andaman Isl; key to all spec.]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 187-188
	Joshi	2001	1372	Perspectives Indian Bryology: 135-148 [Andaman Islands]
	Piippo, He, Juslen, Tan, Murphy & Pocs	2002	1002	Ann Bot Fennici 39: 114 [Singapore]
	Staples & Imada	2006	1716	Trop bryol 28: 38 [Hawaii dubious record]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 70-73, fig 33(a-f) [checklist & revision of genus Fullania, Thailand]
	Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 26, photos [Sumatra, with key]

intermedia ssp. morokensis (Steph.) S.Hatt. 1980 74

Subgenus: Homotropantha Fallaces

Basionym: Frullania morokensis Steph. 1911

Distribution: Papua New Guinea

comb nov	Hattori	1980	490	J Hatt Bot Lab 47: 194-195, fig 17(a-j)
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 40

intermedia var. non-apiculata S.Hatt. 1975 62

Subgenus: Homotropantha Fallaces

Typus: Philippines. Luzon, Ilocs Norte Prov., Mt. Pico de Loro. -.2.1953 - -.3.1953, G.E. Edano

in hb L (HLB 961.46-030) [holotypus], in hb NICH (HLB 961.46-273) [isotypus]

Basionym:

Distribution: Malaysia (Sarawak), Indonesia (Java), Philippines (Luzon), Borneo, New Guinea, New Caledonia, Samoa, Fiji

var nov	Hattori	1975	547	J Hatt Bot Lab 39: 291 [Luzon]
	Hattori	1976	80	J Hatt Bot Lab 40: 483, fig 186(a-c) [Sarawak]
	Hattori	1980	490	J Hatt Bot Lab 47: 187-192 [syn sub Fr. intermedia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 129-130
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 15-16, fig 2(i-k) [Fiji; var nov again]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 109 [New Guinea]
	Hattori	1986	506	J Hatt Bot Lab 60: 221
	Bapna & Kachroo	2000	712	Hepaticology in India II: 188 [syn sub Fr. intermedia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 27: Holotype. Philippines, Luzon, Ilocs Norte Province, Mt. Pica de Loro. 12-3/1953. C. E. Edano 16648 (NICH 432009. Isotype specimen: NICH 432008.

intermixta Colenso 1889 1217

Subgenus: Incertae sedis

Typus: New Zealand. Waipawa County, Dannevirke 1888, Colenso

Basionym:

Distribution: New Zealand

spec nov	Colenso	1889	636	Trans Proc New Zealand Inst 21: 74
	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 388 [status not clear, type specimen missing]
	Bonner	1965	655	Index Hepat 5: 336
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]

intumescens (Lehm. & Lindenb.) Lehm. & Lindenb. 1845 751

Subgenus: Meteoriopsis Intumescentes

Typus: Typus: Jamaica sd. Bancroft

in hb NY (hb HOOKER)
in hb GLM (hb LEHMANN 06028)

Basionym: Jungermannia intumescens Lehm. & Lindenb. 1834

Distribution: Mexico, Guatemala, Costa Rica, Cocos Isl [Costa Rica], Panama, Cuba, Jamaica, Guadeloupe, Ecuador, Colombia, Peru, Bolivia, Brazil

Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 460
Stephani	1911	686	Spec Hepat 4: 497-498
Clark & Svihla	1952	344	Bryologist 55: 186-189, fig 1-15
Clark	1955	371	Bryologist 58: 149 [difference to Fr. strobilantha, mollicula, magniflora var. wrightii]
Bonner	1965	655	Index Hepat 5: 336
Stotler	1969	4761	Nova Hedwigia 18: 444-446, pl 12(:503)
Stotler	1970	194	The genus Frullania, separata: 444-446, pl 12(:503)
Winkler	1976	5	Rev Bryol Lichen 42 (3): 811 [Colombia]
Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 112 [Cat Colombia]
Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
Mägdefrau	1983	1206	Nova Hedwigia 13: 21 [Colombia]
Menzel	1984	142	Willdenowia 14: 489 [Peru]
Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil]
Schuster	1985	441	Phytologia 57 (5): 370 [sect Intumescentes - type species for nov sect]
Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 63ab, microfiche 57 fig 3963 ["Jamaica (Wright leg)"] - 3964
van Zanten & Gradstein	1988	88	Nova Hedwigia Beih 90: 57 [experimental dispersal geography]
Yuzawa & Koike	1989	519	J Hatt Bot Lab 66: 356, fig 10 [from type]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 43 [Mexico]
Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
Kappelle	1996	1409	Los Bosques de Roble, Cordillera de Talamanca, Costa Rica: 257
Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
Dauphin	1999	1087	Rev Biol Trop 47 (3): 323 [Cocos Isl, Costa Rica]
Drehwald	2003	2813	Cambios en la vegetación briofítica: 283 [Ecuador (Parque Nacional Sangay)]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 87 [Brazil]
Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 393, 398, 407, 411, 414, 416, tab 2, 3, 5, 6 & 7 [Podocarpus NP, Ecuador, epiphytic]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 284 [Rio de Janeiro State, Brazil]
Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 92, 94 [Frullania kunzei community - differential species; Ecuador; Podocarpus NP]
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]
Churchill et al	2009	2593	Catalogo de las Briofitas de Bolivia [syn sub. Fr closterantha]
Gradstein	2009	2161	Bibliotheca Lichenologica 99: 158 [Galapagos Isl ??, San Salvador (CLARK 1953).]
Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 364 [Colombia; synopsis of Frullaniacae & keys]
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe]
Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 22 [Ecuador]
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
Rodriquez et al.	2017	4629	Arnaldoa 24(1): 255 [Peru, La Libertad]
Lima et al.	2018	5025	Rodriguésia 69 (3) 978-980, fig 5(a-i), key

Lima	2019	5121	Frullania no Brasil [Thesis]: 163-168, fig. 19 [distribution], 20(a-q)
Gradstein	2021	5642	Mem NY Bot Gard 121: 369 [key -Ecuador, Colombia]

intumescens var. closterantha (Spruce) Gradstein & Pócs 2021 2522

Subgenus: Meteoriopsis Intumescentes

Basionym: Frullania closterantha Spruce 1884

Distribution: Costa Rica, Guatemala, El SalvadorColombia, Peru, Bolivia, Ecuador

involvens S.Hatt. & Kamim. 1973 1232

Subgenus: Mammillosae

Typus: Indonesia. Irian Jaya. Antares Mt, 2400m 19.7.1959, B.O. van Zanten 620
in hb NICH 234723 [holotypus], in hb L [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

spec nov	Hattori & Kamimura	1973	543	J Hatt Bot Lab 37: 526-528, fig 8
	Hattori	1974	546	J Hatt Bot Lab 38: 241
	Hattori	1975	547	J Hatt Bot Lab 39: 291 [New Guinea]
	Hattori	1982	495	J Hatt Bot Lab 51: 219
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 31
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 28: Holotype. New Guinea, W. Irian, Antares Mts. 2400 m. Hanging down from branches in mossy forest. 18 July 1959. B. 0. van Zanten 620 (NICH 234723). Another isotype specimen: NICH 328510.

iriomotensis S.Hatt. 1980 1233

Subgenus: Mammillosae

Typus: Japan. Ryukyu Isl, 300m 28.1.1975, Mizutani & Yoshimura 5506/a
in hb NICH

Basionym:

Distribution: Japan (Ryukyu Isl)

Hattori	1980	130	J Jap Bot 55 (5): 133-134, fig 1
Hattori	1986	506	J Hatt Bot Lab 60: 226
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Yuzawa	2000	1659	Natural Environmental Sci Res 13: 6, fig 5(a-l) [Japan, keys to species; in Japanese]
Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 30 [Catalog of Japan]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 28: Holotype ~ Japan, Ryukyu, Iriomote I., Mt. Goza. 300 m. On tree trunk. 28 Jan. 1975. M. Mizutani & I. Yoshimura 5506a (NICH 146380).
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

irregularis S.Hatt. & Piippo 1986 1234

Subgenus: Trachycolea

Typus: Papua New Guinea. morobe, Lake Wamba, 2400m 1981, Koponen 34227
in hb NICH [holotypus]
in hb H & LAE [isotypus]
in hb UC (Japan) [isotypus]

Basionym:

Distribution: Papua New Guinea

Hattori & Piippo	1986	557	Acta Bot Fennica 133: 46-48, fig 4, 6
N.N.	2003	978	http://ucjeps.berkeley.edu/bryolab/moss_types.html [isotype In hb UC]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 28: Holotype. Papua New Guinea, Morobe Prey.: Lake Wamba. 2400 m. On fallen tree. 26 July 1981. Timo Koponen 34227 (NICH 400145).

iwatsukii S.Hatt. 1972 1236

Subgenus: Frullania

Typus: Japan 21.8.1956, Z. Iwatsuki
in hb NICH 118526

Basionym:

Distribution: Japan, Vietnam

	Hattori	1972	536	J Hatt Bot Lab 35: 240-241, fig 2(m-n), 3(i-l), 4(,f-i), 5(a-g)
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 18, fig 13(a-k) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 30 [Catalog of Japan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 28: Holotype. Japan, Honshu, Nagano-ken, Nishi-chikuma-gun, Mt. Kiso-koma. 1200 m. Chamaecyparis obtusa and Ch. Pisifera-domimant forest, on branch. 21 Aug. 1955. Z. Iwatsuki 118526 (NICH 118526).
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

jackii fo. depauperata Grolle 1970 2022

Subgenus: Trachycolea

Basionym:

Distribution: Germany

fo nov	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 314
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 264

jackii Gottsche 1863 1237

Subgenus: Trachycolea

Typus: Austria. Graubünden, near Mühlen -.8.1856, A. Jack sn

in hb G 14204 [lectotypus by GROLLE 1970]
in hb BUC
in hb GOET 7259 (Hep Europ Exs 294),
in hb HAL, JE, S-PA, TNS, C [isotypus]

Basionym:

Distribution: Norway, France, Germany, Switzerland, Austria, Italy, Poland, Bulgaria, Romania, Hungary, Slovenia, Alaska, Russia (Arctic, Caucasus, Siberia, Far East), China (Hunan, Sichuan, Yunnan, Guangxi), Taiwan, Korea, Japan, Turkey

spec nov	Gottsche in Gottsche & Rabenhorst	1863		Hep Europ Exsicc no 294 [gedrucktes Ettiket mit Diagnose]
	Dumortier	1874	580	Bull Soc Roy Bot Belgique 13: 28
	Stephani	1879	224	Bericht Bot Verein Landshut 7: 152, fig 116
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134
	Dalla Tore & Sarnthein	1904	2694	Die Moose (Bryophyta) von Tirol, Vorarlberg und Lichtenstein: 89
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134
	Müller	1908	787	Mitt bad bot Ver 225: 190
	Stephani	1910	686	Spec Hepat 4: 432-433
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 633-636, fig 179(a-d) & 802
	Reimers	1927	1039	Notizbl Bot Gart Mus Berlin-Dahlem 10 (91): 33-34 [Pontus, Kleinasien]
	Paul	1929	1041	Rev Bryol NS 2 (3-4): 141-142 [distribution]
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 37 [China; = Fr. davurica]
	Bornmüller	1931	1053	Magyar Bot Lapok 30 (1-2): 21 [Kleinasien]
	Reimers	1931	229	Hedwigia 71 (1/2): 34-35 [China]
	Reimers	1931	1024	Hedwigia 70 (6): 362 [Korea]
	Migula	1932	179	Lebermoose Torfmoose, Stuttgart: 39, pl 7(53) [Germany, key]
	Jorgensen	1934	225	Bergens Mus Skrift 16: 333-334, fig 22(f) [map of Norway]
	Schiffner	1936	277	Österr Bot Teitschr 85 (1): 17-19 [difference to jackii & japonica]
	Schiffner	1936	2561	Krit Bemerk europ Leberm, ser 21: 15- [Hepat europ exsicc, nr. 1024 "1924"-1026]
	Müller	1938	642	Mitt bad Landesver Naturkunde Naturschutz NF 3 (29/30): 439-440 [Feldberg, Black Forest in Germany]
	Arnell	1956	43	Moss Flora of Fennoscandia: 258, fig 91(2)
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1247-1250, fig 486(a-d)
	Schuster & Steere	1958		vide 633
	Steere & Schuster	1960		vide 633
	Vajda	1960	2685	Annls hist.-nat. Mus. natn. Hung 53: 156-157 [Ungarn, key to Frull species in Ungarn]
	Virchenko & Vana	1964	2673	A list of liverworts, hornworts and peat mosses of Ukraine, p. 11 [Ukraine]
	Zerov	1964	2658	Flora of Hepatics, Sphagnum and Mosses of the Ukraine, p. 284, fig 199 [Ukraine]
	Steere	1965		vide 633
	Bertsch	1966	617	Moosflora von SW-Deutschland:185-187 [key to SW-Germany]
	Philippi	1968	643	Mitt bad Landesver Naturkunde Naturschutz NF 9: 702 [Germany: Black Forest & France: Vosges]
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 314 [lectotypification][key to europa & macaronesia]
	Philippi	1970	40	Herzogia 1: 453-458 [distribution in Black forest & Vogeses]
	Inoue	1976	734	Illustrations of Japanese Hepaticae, vol 2: 62-63, fig 31(1-5)
	Steere	1976		vide 633
	Inoue	1976	734	Illust Jap Hep 2: 62-63, pl 31(1-6), foto, map of Japan [?? = Fr davurica?]
	Hattori	1976	67	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (1): 21 [comb nov as Fr. davurica ssp. jackii]
	Grolle	1976	183	Feddes Repert 87 (3/4): 194 [types]
	Szweykowski & Kozlicka	1977	1096	Atlas geograph distr spore-plants Poland, ser IV, part IX: 35, map [H. 243; altitude range & map of Poland, world map]
	Steere & Inoue	1978	633	J Hatt Bot Lab 44: 328-330 [Alaska]
	Grolle	1983	144	J Bryol 12: 421 [checklist Europe]
	Frahm & Frey	1983	178	Moosflora, UTB 1250, Stuttgart: 146-147, fig 35 (5) [key to Germany)
	Düll	1983	620	Bryol Beitr 2: 67 [Europe & Macaronesia]
	Mues, Hattori, Asakawa & Grolle	1984	500	J Hatt Bot Lab 56: 227-238 [jackii not syn with davurica]
	Bisang	1985	102	Bot Helvetica 95 (2): 247-278, map [Switzerland]

	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 87, microfiche 51 fig 3462 ["Savoyen, in rupibus silicis, Beaufort, Philibert"]
	Bisang	1987	98	Herzogia 7: 407-458 [Switzerland, all Frullania species, ecology]
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 13
	Cetin	1988	1050	Lindbergia 14: 14 [Turkey]
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan] [syn sub Fr. davurica ssp. Jackii]
	Hong	1989	689	Bryologist 92 (3): 365 [key to N-American species]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 259 [key to Europe & Macaronesia] & 263
	Piippo	1990	521	J Hatt Bot Lab 68: 39 [annotated catalogue of China]
	Frey & Kürschner	1991	1033	Bryophyt Bibl 39: 31 [Turkey]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 115 [key to european species]
	Schumacker & Soldan	1997	1348	Ibex 4: 36 [Italy, Gran Paradiso NP]
	Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
	Skrzypczak in Aicardi	1999	810	Bull Soc Bot Centre-Ouest, NS 30: 453 [France]
	Pavletic, Martincic & Duell	1999	1045	Contrib Bryofl Yugoslavia Bulgaria: 9 [Slovenia]
	Ganeva & Duell	1999	1046	Contrib Bryofl Yugoslavia Bulgaria: 118 [Bulgaria]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 414 [China, Yunnan]
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Grims	2001	1136	Moosherbar in hb LINZ [Internet]
	Frahm	2001	1353	Limprichtia 19: 24, map [Vosges]
	Dierssen	2001	779	Bryophyt Bibl 56: 216 [ecology in European bryophytes]
	Zechmeister, Tribsch, Moser & Wrbka	2002	1295	Biol Conservation 103: 180 [IUCN threat category in Austria: 1; -r: VU; 12]
	Geisller, Bagutti, Bisang, Müller, Schnyder, Schubiger-Bossard & Urmi	2002	1003	Herzogia 15: 202-203, fig 11 [distribution & map of Switzerland and Lichtenstein]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	Bai	2002	1189	Chenia 7: 6 [Yunnan, China; as Fr davurica jackii]
	Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 612-613, fig 247, pl 234(1-8) [Northern Europe]
	Hong	2003	1416	Lindbergia 28: 145 [syn sub Fr davurica]
	Ganeva & Natcheva	2003	1299	Crypt Bryol 24 (3): 231 [Bulgaria]
	Erzberger &Papp	2004	1326	Studia Bot Hung 35: 102-103 [Hungary]
	Bischler	2004	1103	Bryophyt Bibl 61: 121 [Mediterranean], fig 30 [map]
	Reimann	2005	1364	Limprichtia 26: 106 [3rd reverence for Bavaria, Germany]
- syn nov	Szweykowski	2006	2547	Checklist of Polish Liverworts and Hornworts: 28 [Poland]
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Bulgaria, France, Italy, Slovenia, Turkey]
	Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 72 [ecology]
	Papp, Erzberger, Ódor, Hock, Szövényi, Szurdoki & Tóth	2010	2852	Studia bot. Hung. 41: 35 [checklist Hungary, status DD-va Data-deficiant vanished (a single old record ERZBERGER& PAPP 2004)]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

jackii ssp. japonica var. chichibuensis Kamim. 1961 973

Subgenus: Incertae sedis

Typus: Japan. Chichibu Mts, Shiraiwa Peak. H. Inoue 2714
in hb TNS [holotypus]

Basionym:

Distribution: Japan

	Lin & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Formosa]
	Hattori	1976	67	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (1): 21, footnote 2
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 13
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 30 [Catalog of Japan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 28: Holotype. Japan, Honshu, Saitama-ken, Chichibu, Mt. Shiraiwa. 1800-1900 m. 16 July 1953 H. Inoue 2714 (NICH H46862).

jacobsii S.Hatt. 1986 1241

Subgenus: Trachycolea

Typus: Philippines. Luzon, Mt. Pulog, 2550-2650m 30.1.1968, M. Jacobs B-72
in hb NICH [holotypus], in hb L [isotypus]
Basionym:

Distribution: Philippines (Luzon)

	Hattori	1986	74	Bull Natn Sci Mus Tokyo, ser B (Bot), 12 (4): 129-131, fig 252
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 28: Holotype. Philippines, Luzon, Mt. Pulog. 2550-2650 m. 30 Jan. 1968. M Jacobs B-72 (NICH 382039).

jacquinotii Gottsche 1910 95

Subgenus: Trachycolea

Typus: Tahiti, Archipel des Amis 1841 ?, Jacquinot 18 bis [Voyage de l'Astrolabe et de la Zélée 1838-1840]
ex hb PC, in hb G 182616
Basionym:

Distribution: ?Guam, Society Isl (Tahiti)

spec nov	Gottsche ex Stephani	1910	686	Spec Hepat 4: 436-437 ["G. ms."]
- syn nov	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 161 [conspecific with Fr. curvirostris]
	Bonner	1965	655	Index Hepat 5: 339
	Hattori	1981	492	J Hatt Bot Lab 49: 375-376, fig 10(a-i) from type [a valid species]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 130
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-108, microfiche 51 fig 3493 ["Fr jacquinotii G ms" - from type; "Nouvelle Caledonia, Bourail 5/3 69, leg Balansa 918"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-144, microfiche 52 fig 3538 ["Tahiti, Jacquinot (original Herb Gottsche)"]

jelskii Loitl. 1895 200

Subgenus: Chonanthelia Pluricarinatae

Typus: Peru, Cutervo sd, Jelski 542
ex hb LOITLESBERGER, in hb G [holotypus]
Basionym:

Distribution: Colombia, Peru, Bolivia

spec nov	Loitlesberger in Szyszylowicz	1895	1948	Diss Cl. Math-Phys Acad Litt Cracow 29: 232
	Stephani	1910	686	Spec Hepat 4: 343
	Stephani	1916	222	Biblioth Bot 87: 240 [Bolivia]
	Bonner	1965	655	Index Hepat 5: 340
	Pocs	1976	2686	Fol. Hist. nat. Mus. Matr. 4: 19 [types in hb EGER]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 73, microfiche 47 fig 3174-3175 [from type; "Peru Cutervo Jelski 542"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 219-220, fig. 20, map 5 c(:284) [key to jelski, dusenii & chodatii]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 364-365 [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Gradstein	2021	5642	Mem NY Bot Gard 121: 370 [key - Colombia]

johnsonii Steph. 1894 1242

Subgenus: Diastaloba Diastaloba I

Typus: Australia. Queensland, Bellender Ker Range, NW from Cardonvale 1892, Stephen Johnson in hb G 771, 844 [ex hb MEL, comm Baron F. v. Müller)

Basionym:

Distribution: Australia (QLD)

spec nov	Stephani	1894	228	Hedwigia 33: 163-164
	Stephani	1911	686	Spec Hepat 4: 660
	Bibby	1954	2092	J Arnold Arb 35: 262 [Queensland]
	Bonner	1965	655	Index Hepat 5: 340
	Hattori	1984	682	Crypt Bryol Lichen 5(1-2): 184 [Australia, Queensland]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-95, microfiche 49 fig 3343 [from type; Australia, Bellender Ker Hills, Stephan Johnson 1892, F v Müller"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 35 & 143 [Australia: QLD]
	Hattori	1987	402	Mem NY Bot Gard 45: 545-547, fig 2
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1988	429	Nova Hedwigia Beih 90: 151 [Australia: QLD]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]

jovetiana von Konrat & Hentschel 2015 1964

Subgenus: Trachycolea

Basionym:

Distribution:

noim nov	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 135 [nom. nov. pro Frullania pseudericoides S.Hatt]

junghuhniana var. tenella (Sande Lac.) Grolle & S.Hatt. 1982 1254

Subgenus: Microfrullania Regulares

Basionym: Frullania tenella Sande Lac. 1854 [non Caspary 1887, nec Steph. 1910]

Distribution: Thailand, Malaysia (Kedah, Pahang, Sabah), Borneo, Indonesia (Sumatra, Java), Philippines, New Guinea (Papua New Guinea, Irian Jaya), Solomon Isl, ?Samoa (Tutuila)

Hattori	1982	422	Misc Bryol Lichen 9 (6): 123-124
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
Hattori	1986	507	J Hatt Bot Lab 60: 245 [Seram]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 37
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 303 [Philippines]
Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
Hattori	1988	516	J Hatt Bot Lab 65: 434-435 [PNG]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 81-83, fig 38(a-f) [checklist & revision of genus Fullania, Thailand]

junghuhniana Gottsche 1845 1246

Subgenus: Microfrullania Regulares

Typus: Indonesia. Java sd, Blume

in hb NEES

Basionym:

Distribution: Mascarenes, Vietnam, Indonesia (Sumatra, Java, Irian Jaya, Bali, Ceram), Malaysia (Sabah), Borneo, Philippines, Papua New Guinea, Kermadec Isl [New Zealand], Solomon Isl, New Caledonia

spec nov	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 444
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 86-87
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Mascareignes]
	Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 223
	Bescherelle	1895	2795	Flore de l'Ile de la Reunion : 4
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 329-330
	Stephani	1911	686	Spec Hepat 4: 647-648
	Verdoorn	1929	245	Ann Bryol 2: 146-147 [Sumatra, Java]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 134-135, fig 225, 233-234
	Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 41; Java] & 137-138, fig 6
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 62 [Sumatra, Java, Netherl Neu Guinea]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 497 [Borneo]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 206 [B.N. Borneo: Mt Kinabalu]
	Bonner	1965	655	Index Hepat 5: 341
	Hattori	1972	538	J Hatt Bot Lab 36: 128-130, fig 14-16
	Hattori	1973		figs
	Hattori	1975	547	J Hatt Bot Lab 39: 291
	Hattori	1976	80	J Hatt Bot Lab 40: 484-485
	Hattori	1977	479	J Hatt Bot Lab 43: 423 [New Caledonia]
	Hattori & Mizutami	1982	495	J Hatt Bot Lab 52: 446
	Hattori	1982	495	J Hatt Bot Lab 51: 232
	Hattori	1984	503	J Hatt Bot Lab 57: 417
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-65, microfiche 49 fig 3307 ["Java, Herb Schiffner"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 302-303 [Philippines]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 36-37
	Hattori	1986	507	J Hatt Bot Lab 60: 245 [Seram]
	Hattori	1986	506	J Hatt Bot Lab 60: 231 [New Caledonia]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Grolle	1995	250	Bryophyt Bibl 48: 147 [widespread in Indonesia, occurrence in afr3 doubtful]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 28 [Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 30 [Excluenda from Africa: Mascarene Isl, Mauritus, Reunion] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Pocs & Ninh	2005	1398	Acta Bot Hungarica 47 (1-2):154 [Vietnam (Vu Quang Nature Reserve)]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	Haerida	2015	4229	Floribunda 5(2): 72 [Bali, with key]
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
	Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 27, photos [Sumatra, with key]

junghuhniana var. tenella fo. monoica (S.Hatt.) S.Hatt. 1986 1267

Subgenus: Microfrullania Regulares

Basionym: Frullania perversa var. monoica S.Hatt. 1974

Distribution: Philippines, Papua New Guinea

comb nov	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 37

junghuhniana var. bisexualis S.Hatt. 1976 1253

Subgenus: Microfrullania Regulares

Typus: Indonesia. Sabah, Mt. Kinabalu, Ulu Liwagu, 2450-2500m - , ZI 1179

in hb NICH

Basionym:

Distribution: Malaysia (Sabah), Borneo, Papua New Guinea

var nov	Hattori	1976	80	J Hatt Bot Lab 40: 485
	Hattori	1982	495	J Hatt Bot Lab 51: 232
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 20 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 37
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 28: Holotype. Borneo, Mt. Kinabalu. 2450-2500 m. On branch. 22 May i 963. Z. Iwatsuki 11 79 (NICH).

kachinensis Y. Li, Y.-D. Wang & K. Feldberg 2021 2533

Subgenus:

Typus: Amber mines south-west of the village of Tanai ca. 105 km north of Myitkyina in Kachin State, northern Myanmar, fossil

Holotype: PB22711a, Paratypes: PB22711c–d, ZMNH155047a, d–e, ZMNH155048c

Basionym:

Distribution:

	Li, Wang, Feldberg et al.	2021	6032	Geological Journal: 2021: 1-12 [Fossil in mid-Cretaceous Kachin amber, Myanmar]

kagoshimensis ssp. hunanensis (S.Hatt.) S.Hatt. & P.J.Lin 1985 1276

Subgenus: Trachycolea

Basionym: Frullania hunanensis S.Hatt. 1981

Distribution: China (Hunan, Guangdong, Guangxi, Yunnan)

comb nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 137
	Piippo	1990	521	J Hatt Bot Lab 68: 42 [annotated catalogue of China]
	Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 404 [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 39 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 11 [Yunnan, China]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]

kagoshimensis Steph. 1910 1271

Subgenus: Trachycolea

Typus: Japan. Kagoshima Pref., Sakurajima -.7.1900, Faurie 829

in hb G

Basionym:

Distribution: China, Taiwan, Japan (Honshu, Kyushu, Shikoku, Tsushima, Yakushima), Ryukyu (Amami, Okierabujima, Okinawa, Tokunoshima), Korea (South), Bonin Isl

	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 1, 1' [key to Japanese species, in Japanese]
spec nov	Stephani	1910	686	Spec Hepat 4: 353 [as Chonanthelia]
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 146 [Japan, key to Japanese species]
	Hattori	1951	528	J Hatt Bot Lab 5: 64
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 132-133
	Hattori	1952	529	J Hatt Bot Lab 8: 29-30
	Tatuno	1952	1697	J Sci Hiroshima Univ ser B, div 2 (Bot), 6(2): 51-57 [sex chromosomes]
	Kamimura	1961	199	J Hatt Bot Lab 24: 44, fig 11(17-18), 16(14-24), map 4
	Inoue	1961	964	J Jap Bot 36(5): 187 [Formosa]
	Bonner	1965	655	Index Hepat 5: 342
	Inoue & Iwatsuki	1965	61	Bull Natn Sci Mus Tokyo 12 (2): 303
	Hong	1966	1107	Bryologist 69 (1): 411 [South Korea]
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 204 [Ryukyu Arch.]
	Shin	1970	150	Sci Rep Kagoshima Univ 19: 25 [Ryukyu: Amami Isl]
	Inoue in Inoue & Iwatsuki	1970	62	Bull Natn Sci Mus Tokyo 13 (3): 478
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 126-127 [Central Japan]
	Inoue	1974	2545	Illustrations of Japanese Hepaticae, vol 1: 143-144 Fig
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 734 [South Korea]
	Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 113 [Taiwan]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 255 [Japan]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 130
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 136-137 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 97, microfiche 47 fig 3208 ["Japan Faurie 674"]
	Hattori	1986	74	Bull Natn Sci Mus Tokyo, ser B (Bot), 12 (4): 138 [Korea]
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Piippo	1990	521	J Hatt Bot Lab 68: 42 [annotated catalogue of China]
	Chao & Lin	1991	458	Yushania 8: 11 [Taiwan; as Fr. kagoshimensis "HATTORI"]
	Chao & Lin	1992	460	Yushania 9: 204, fig 10(a-h) [Taiwan]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Lin & Chen	1997	1130	Biol Bull 75: 90-91, fig 9(a-d) [Taiwan, key to species, in Taiwanese]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 287 [Korean Peninsula]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 404
	Lin	2000	1524	Liverwort Flora Taiwan: 162-163, fig 162(1-3) [Taiwan]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 282, pl 164(1) [with key to Japan, in Japanese]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 19-22, fig 16(a-q), 17(a-l) [Japan, keys to species; in Japanese]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 30 [Catalog of Japan]
	Song & Yamada	2006	1445	J H B L 100: 445 [from Jeju (Cheju) Isl, Korea]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

kalimantanensis Piippo & S.Hatt. 1992 [hom illeg] [non S.Hatt. 1986] 1278

Subgenus: Trachycolea

Typus: Philippines. Luzon ? , Alvarez et alii O-771187
in hb CAHUP [holotypus], in hb FH, H & NICH [isotypus]
Basionym:

Distribution: Philippines (Luzon)

	Piippo & Hattori in Piippo & Tan	1992	19	J Hatt Bot Lab 72: 117-119, fig 1 [close to Fr. osumiensis]

kalimantanensis S.Hatt. 1986 [non Piippo & S.Hatt. in P. & T. 1992] 1277

Subgenus: Trachycolea

Typus: Indonesia. Borneo, W-Kalimantan, 800m -.11.1980, G. Shea 29001
in hb NICH [holotypus]
Basionym:

Distribution: Borneo (W-Kalimantan), Indonesia

	Hattori	1986	74	Bull Natn Sci Mus Tokyo, ser B (Bot), 12 (4): 127-129, fig 251
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Isotype. Burma, Shan State. 3800 ft. On bark. 22 Apr. 1953. R. D. Svihla 1954 (NICH 218380).

kashyapii Verd. 1932 1280

Subgenus: Trachycolea

Typus: China. Kwangtung Prov., Loh Fau Mountain [Lofaushan] -.8.1927 / 1917 ?, MERRILL 11150 [with Fr. inopinata]
hb VERDOORN 11626, in hb FH / PNH ? [holotypus], in hb NICH, MANILA [isotypus]
Basionym:

Distribution: China (Guangdong, Yunnan)

spec nov	Verdoorn	1932	552	Ann Bryol 5: 162-163, fig 2
	Bonner	1965	655	Index Hepat 5: 342-343
	Hattori	1981	491	J Hatt Bot Lab 49: 147-149, fig 241(a-i) from holotype
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 137 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 42 [annotated catalogue of China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 420, fig 211(1-6) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 120, fig. 53(1-2)
	Bai	2001	1742	Guizhou Science 19(4): 39, fig 7(1-6) [China, Yunnan]
	Bai	2002	1189	Chenia 7: 11, fig 6(1-6) [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1125, fig 527(1-6) [China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 225(1-6) [key in Chinese]

kitagawana S.Hatt. 1984 1281

Subgenus: Trachycolea

Typus: New Caledonia.
Basionym:

Distribution: New Caledonia

spec nov	Hattori	1984	503	J Hatt Bot Lab 57: 417-419, fig 6 [resembles Fr. ferdinani-muelleri from Australia]
	Hattori	1986	506	J Hatt Bot Lab 60: 214-215
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Holotype. New Caledonia, NE of Sarramea, Plateau du Dogny. 350-750 m. On tree trunk. 18 Aug. 1982. N. Kitagawa 23039 (NICH 388970).

klotzschii Nees 1911 1282

Subgenus: Diastaloba

Typus: Australia. Nova Hollandia

ex hb NEES, in hb G 18217 [typus]

Basionym:

Distribution: Australia

spec nov	Nees ex Stephani	1911	686	Spec Hepat 4: 558
	Bonner	1965	655	Index Hepat 5: 343-344
	Hattori	1979	486	J Hatt Bot Lab 46: 134-13., fig 37(a-l) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-182, microfiche 60 fig 4133 ["Nova Hollandia, Herb Kew"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 35 & 143 [Australia]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (AUST)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia]

knightbridgei von Konrat & de Lange 2012 2446

Subgenus: Microfrullania

Typus: New Zealand: Stewart Island: Rakiura/Stewart Island National Park, 500 m. from North Arm Hut, on bark of Dracophyllum longifolium overhanging water on margin of Patterson Inlet 12 Dec 1999, M. von Konrat 99/12-09

holotype AK; isotypes CHR, F).

Basionym:

Distribution: New Zealand (Stewart Isl.)

	von Konrat & de Lange	2012	3204	PhytoKeys 8: 13-36 [New Zealand]

koponenii S.Hatt. 1978 1283

Subgenus: Trachycolea Trachycolea

Basionym:

Distribution: Russia (Siberia, Far East), Japan (Hokkaido)

	Hattori	1978		in Koponen, Järvinen & Isoviita: Ann Bot Fennici 15: 111-112, fig 2 [*]
	Hattori	1981	491	J Hatt Bot Lab 49: 161.162, fig 248(b-c), 249 [* magnification incorrect in fig 2] [key to Japanese Fr. dilatata-complex]
	Schuster	1992	603	Hepat N America 5: 141 [may be subsp of Fr. eboracensis]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Konstantinova & Vasiljev	1994	650	Arctoa 3: 130 [Siberia, Sayan Mt.]
	Gambaryan	1998	1222	Chenia 5: 132 [Russia Far East]
	Söderström	2000	765	Lindbergia 25: 43 [China]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 22, fig 18(a-m) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Holotype. USSR, Khabarovskii Krai, Lake Aksha. 20 m. 28 Aug. 1976. P. Alanko 3085411 (NICH 432540).
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: SIB, FAR EAST]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

kunzei (Lehm. & Lindenb.) Lehm. & Lindenb. 1845 774

Subgenus: Meteoriopsis Obtusilobae

Typus: Cuba

Basionym: Jungermannia kunzei Lehm. & Lindenb. 1834

Distribution: USA (VA NC SC GA FL AL MS LA TX OK KS), Mexico, Costa Rica, Panama, Cuba, Guadeloupe, Martinique, Puerto Rico, Jamaica, Dominica, Dominican Rep, Venezuela, Galapagos Isls [Ecuador], Ecuador, Colombia, Guyana, French Guiana, Brazil, Hawaii

Bryant, Crandall-Stotler & Stotler	0	4689	Canadian Journal of Botany 51 (9): 1545-1554 [Puerto Rico]
Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 449 (No 82)
Montagne in La Sagra	1845	25	La isla de Cuba [Span Ed] 9: 277
Austin	1874	669	Bull Torrey Bot Club 5: 17 [Sandwich Isl]
Baldwin	1877	901	Hawaiian Almanac: 42 [Hawaii]
Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 30-31, pl 14(1-16)
Duss	1904	3132	Flore Cryptogamique des Antilles Françaises: 132 [Martinique] as "kunzeana"
Stephani	1911	686	Spec Hepat 4: 668
Verdoorn	1932	232	Ann Bryol 5: 126 [Hepat select crit, ser 3 & 4 no 171; America sept.]
Kurz & Little	1933	1349	Liverworts North & Central Florida: 15, fig 18 [key to species of Florida, USA]
Pagan	1939	931	Bryologist 42: 80 [Puerto Rico]
Pagán	1942	3152	Bryologist 45(4): 108-109 [Guadeloupe]
Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 759-760, fig Frk(1-9)
Clark & Svihla	1948	325	Bryologist 51: 26 [key to Fr. of Middle America: Southern United States (Cuba), Puerto Rico, Guadeloupe (South America)]
McGregor	1955	2240	Univ Kansas Sci, Bull 37(3): 81-82 [USA, Kansas - rare]
Bonner	1965	655	Index Hepat 5: 344-345
Fulford, Crandall & Stotler	1971	662	J Arnold Arboret 52: 451 [Puerto Rico]
Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 3 Galapagos Isls]
Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil]
Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-37, microfiche 48 fig 3274 ["Am sept, leg Austin"]
Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]
Gradstein & Florschütz-de	1989	1237	Trop Bryol 1: 42 [Venezuela, Mt Roraima] as #1505
Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 208 [French Guiana]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 44 [Mexico]
Cornelissen & Gradstein	1990	729	Trop Bryol 3 (2): 33 [Guyana, French Guiana]
Schuster	1991	1151	J Hatt Bot Lab 70: 144-145 [var maritima var nov]
Schuster	1992	603	Hepat N America 5: 91-99, fig 776(5), 788, 789(1-8)
Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 143, fig 81(5-7), map 104 [USA: North Carolina]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Weaver	1994	4271	Bano de Oro Natural Area Luquillo Mountains, Puerto Rico
Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana, French Guiana]
Timme & Redfearn	1997	1134	http://biology.smsu.edu/herbarium/liverw_t.htm [printed 20.6.2004 page 10 of 19; USA]
Timme & Redfearn	1997	631	http://science.smsu.edu/~csre/herbarium/liverw_t.htm [4.6.97] printed 15.1.98 12:34 page 3 of 6 [USA]
Timme & Redfearn	1997	748	Evansia 14(3): 95
Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 14 [initial branching appendages]
Merwin, Gradstein & Nadkarni	2001	1075	Trop Bryol 20: 67 [Montverde, Costa Rica]
Pinzon, Linares & Uribe-M	2003	1135	Caldasia 25(2): 300, fig 1(a-c) [Colombia] [as Fr kunsei]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 87-89, fig 27(a-d) [Brazil]
Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
Oskada & Lisboa	2004	1233	Acta Amazonica 34(2): 198 [Brasil]
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 393, 410-411, 414, 416, tab 2, 6 & 7 [Podocarpus NP, Ecuador, epiphytic: Fr kunzei community]
Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]

Martinez	2005	2307	Cuba: Parque Nacional Alejandro de Humboldt", p. 222
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 284 [Rio de Janeiro State, Brazil]
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Germana & Porto	2005	1357	Trop Bryology 26: 3, 7 [Brazil; Pernambuco]
Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 92, 94 [Frullania kunzei community - differential species; Ecuador; Podocarpus NP]
Gradstein	2006	1401	Crypt Bryol 27(1): 147, 150 [French Guiana: lowland cloud forest]
Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]
Gradstein	2009	2161	Bibliotheca Lichenologica 99: 149-150 [Galapagos Isl, Note: smallest Frullania species in the Galapagos islands and exclusive to the transition zone.]
Gradstein & Ilkiu-Borges	2009	1920	Mem New York Bot Gard 76(4): 45, fig 25(f,g) [French Guiana]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 385 [Dominican Republic, Hispaniola]
Schäfer-Verwimp	2010	2460	Crypt Bryol 31(4): 347 [Dominica, West Indies]
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 251 [Martinique] "as Fr spathuliflora - Arnell 1959
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 365 [Colombia; synopsis of Frullaniacae & keys]
Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):213 [Panama]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [new to Colombia]
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Lima	2019	5121	Frullania no Brasil [Thesis]: 170-176, fig. 21 [distribution]
Gradstein & Perez	2021	6056	Candollea 76: 44 [new syn: Fr ecuadoriensis - Ecuador]
Gradstein	2021	5642	Mem NY Bot Gard 121: 370-371, fig. 37k, 38e,f [key -Ecuador, Colombia]

kunzei var. maritima R.M.Schust. 2015 1966

Subgenus: Meteoriopsis Obtusilobae

Basionym: Frullania kunzei var. maritima R.M.Schust. 1991

Distribution:

Hentschel et alii	2015	4097	Phytotaxa 220 (2): 135 [var nov. - as nom. inval. (ICN Art. 37.7; no herbarium indicated).]

laetevirens Hampe ex Gottsche, Lindenb. & Nees 1845 1289

Subgenus: Incertae sedis

Typus: Hampe

in hb HAMPE, typus in hb S (B24121)

Basionym:

Distribution: Peru

spec nov	Hampe in G.,	1845	2850	Syn Hepat: 420
	Stephani	1911	686	Spec Hepat 4: 676
	Bonner	1965	655	Index Hepat 5: 346
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]

laeviperiantha X.L.Bai & C.Gao 2015 1967

Subgenus: Trachycolea

Basionym: Frullania laeviperiantha X.L.Bai & C.Gao 2000

Distribution:

in Hentschel et alii	2015	4097	Phytotaxa 220 (2): 136 [Frullania laeviperiantha Bai & Gao 2000 - nom. inval. (ICN Art. 37.7; no herbarium indicated).

lancistyla Steph. 1910 1291

Subgenus: Trachycolea

Typus: Bolivia sd, Mandon 792

Basionym:

Distribution: Bolivia

spec nov	Stephani	1910	686	Spec Hepat 4: 389-390
	Bonner	1965	655	Index Hepat 5: 347
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 66, microfiche 50 fig 3427 [from type; "Bolivia (Mandon leg)"]

larjiana var. didyhatii S.N.Srivast. & M.Rai 2011 2472

Subgenus: Incertae sedis

Typus: India, Western Himalaya, Uttarakhand, Pithoragarh District, Didyhat (2020 m) April1982, leg. S. N. Srivastava: H-82/1 (Holotype); H-82/2 (Isotype). Deposited in Allahabad University Herbarium.

Basionym:

Distribution: India

	Srivastava & Rai	2011	3371	Geophytology 41 (1-2): 109-112. [Frullania largiana var. didyhatii var. nov.]

larjiana Sushil K.Singh & D.K.Singh 2005 2352

Subgenus: Incertae sedis

Typus: India. Himachal Pradesh, Great Himalayan National Park (Kullu), Sainj Valley - Larji, ca 1300m S.K.Singh 99502, 99505, 99508 (BSD)

in hb CAL [holotypus]
in hb BSD [isotypus]

Basionym:

Distribution: India

spec nov	Singh & Singh	2005	1355	J Bryol 27: 105-108, fig 1-31 [India; Himachal Pradesh]
	Crosby & Magill	2006	1429	Index of bryophytes
	Srivastava & Rai	2011	3371	Geophytology 41 (1-2): 109-112. [Frullania largiana var. didyhatii var. nov.]

laticaulis Spruce 1890 1292

Subgenus: Meteoriopsis Intumescentes

Typus: Bolivia. Yungas, 6000ft 1885/86, H.H. Rusby 3062 pp

Basionym:

Distribution: Bolivia

spec nov	Spruce	1890	898	Mem Torrey Bot Club 1: 120
	Stephani	1911	686	Spec Hepat 4: 522-523
	Bonner	1965	655	Index Hepat 5: 347

latiflora Spruce 1884 1293

Subgenus: Trachycolea

Typus: Colombia; "at cataractam Maypures fluminis Orinoco" sd, Spruce

in hb G

Basionym:

Distribution: Colombia

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 32-34
	Stephani	1910	686	Spec Hepat 4: 393
	Bonner	1965	655	Index Hepat 5: 348
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 67, microfiche 50 fig 3428 & microfiche 51 fig 3429 ["Orinoco, Spruce"]

latogaleata Herzog 1949 773

Subgenus: Trachycolea

Typus: Australia. Western Australia, Pemberton, Karri forest, on smooth tree trunk -.4.1946, G.G. Smith 79
in hb PERTH 79
in hb JE [holotypus & isotypus]

Basionym:

Distribution: Australia (WA)

spec nov	Herzog	1948	21	Trans Brit Bryol Soc 1 (2): 189, fig 4
	Smith	1962	3478	J Roy Soc West Australia 45: 22 [Australia (WA)]
	Bonner	1965	655	Index Hepat 5: 348
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 35 & 143 [Australia: WA]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (WA)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia WA]
	Müller & Zündorf	2007	1442	http://www2.uni-jena.de/biologie/spezbot/herbar/bryotypes/Uebersicht%20F.htm [as latigaleata]

laxiflora Spruce 1884 250

Subgenus: Chonanthelia Pluricarinatae

Typus: Ecuador: Andes Quitenses, Guataxi, 2200 m sd, Spruce sn
in hb G [isotypus]

Basionym:

Distribution: Costa Rica, Supalpine regions of Colombia, Bolivia, Venezuela, Peru, Ecuador, Galapagos Isls (Santa Cruz)[Ecuador], Chile

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 14 & 26-27
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 323-324
	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 67 [Chile]
	Stephani	1910	686	Spec Hepat 4: 328
	Evans	1914	235	Trans Connet Acad Arts Sci 18: 338-343, fig. 11(a-i) [Peru]
	Herrera	1926	2788	Chloris Cuzcoensis: 15
	Herrera	1941	2789	Sinopsis de la Flora del Cuzco: 70 [Peru, Cuzco]
	Clark	1959	392	Bryologist 62: 135-138, fig. 1-17
	Bonner	1965	655	Index Hepat 5: 349
	Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [Galapagos Isls: Santa Cruz]
	Yuzawa	1984	502	J Hatt Bot Lab 57: 396-398, fig.
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 38, microfiche 46 fig 3123-3124
	Yuzawa	1991	525	J Hatt Bot Lab 70: 235-236, fig. 28, map 6 b(:285)
	Gradstein, Lücking, Morales Z. & Dauphin	1994	4	Lindbergia 19: 76 [Costa Rica]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Gradstein, Griffin III, Morales & Nadkarni	2000	1405	Caldasia 23(1): 208 [Costa Rica: Monteverde]
	Merwin, Gradstein & Nadkarni	2001	1075	Trop Bryol 20: 67 [Montverde, Costa Rica]
	Drehwald	2003	2813	Cambios en la vegetación briofítica: 283 [Ecuador (Parque Nacional Sangay)]
	Holz	2004	1184	[checklist of Costa Rica; Gradstein & Solano 9517 (U, USJ)] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 150 [Galapagos Isl, Santa Cruz, on mossy trunks in moist Scalesia woodland near the forest line, 650-700 m.]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 365 [Colombia; synopsis of Frullaniacae & keys]
	Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Atwood & Mamonentov	2018	4982	Phytotaxa 383(2): 206-212 [Morphological comparison between Frullania clarkii, F. laxiflora and F. planifolia]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 371, fig. 38g [key -Ecuador, Colombia]

leana Austin 1869 1294

Subgenus: Incertae sedis

Typus: USA. Ohio, Cicinnati sd, Lea
in hb TAYLOR

Basionym:

Distribution: USA (OH)

spec nov	Austin	1869		Proc Acad Nat Sci Philadelphia 1869 (Separata): 10
	Austin	1870	1339	Proc Acad Nat Sci Philadelphia 21: 227
	Stephani	1883	848	Bull Torrey Bot Club 10 (12): 132 [close to Fr pennsylvanica]
	Bonner	1965	655	Index Hepat 5: 350

leeuwenii Verd. 1930 3

Subgenus: Homotropantha Nodulosae

Typus: Indonesia, West Jrian, [Dutch New Guinea], Boven v.d. Sanderivier, 100 m 12.11.1912, A. Pulle, sn.
in hb FH [typus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia, Vanuatu (Aneityum)

	Verdoorn	1930	293	Ann Bryol Suppl 1: 176-177, fig 287-288(:167)
spec nov	Verdoorn	1930	549	Nova Guinea 14 (4): 545-546, pl 93(20-23)
	Tixier	1972		Bull Mus Nat Hist Nat Paris, ser 3, 48 (Bot 4): 98
	Hattori	1973	542	J Hatt Bot Lab 37: 149 [New Guinea]
	Hattori	1974	544	J Hatt Bot Lab 38: 177 [Luzon]
	Hattori	1975	547	J Hatt Bot Lab 39: 292
	Hattori	1980	490	J Hatt Bot Lab 47: 217-219, fig 25(j-n), 32-34
	Hattori	1982	495	J Hatt Bot Lab 51: 239
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 131
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 109 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 40, fig 4
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 335 Hattori (1982a: 239) considered this species to be endemic to New Guinea. Hence, its earlier Philippine report was erroneous.
	Hattori	1988	516	J Hatt Bot Lab 65: 435-436 [PNG]

lepida S.Hatt. & Piippo 1986 1297

Subgenus: Trachycolea

Typus: New Guinea. PNG. Morobe ...., 1500-1600m 1981, Koponen 29702
in hb NICH [holotypus], in hb H, LAE [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea)

spec nov	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 48-49, fig 4 & 7
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Holotype. Papua New Guinea, Morobe Prov., Mampamguyak. 1500-1600 m. On fallen log. 30 May 1981. Timo Koponen 29702 (NICH 399980).

letestui Vanden Berghen 1976 1298

Subgenus: Diastaloba

Typus: Gabon. "Gria, au bord de la Kolté. Epiphyte" 18.2.1925, Le Testu sn
in hb PC [holotypus]
in hb VANDEN BERGHEN [isotypus]

Basionym:

Distribution: Cameroon, Central African Republik, Democratic Republic of Congo, Gabon,

- syn nov	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 38-41, fig 9(A-L)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 340 [map of Africa]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 88 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Central African Rep, Cameroun, gab, DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Central African Rep, Cameroun, Gabon, DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 220-221, fig 142(A-M) [West Africa]

levieri Steph. 1910 [non Schiffner ex Verd. 1930] 1299

Subgenus: Trachycolea

Typus: Guatemala. Alta Verapaz, 1650m -.6.1908, H.v. Turckheim sn

hb LEVIER 6320, in hb G

Basionym:

Distribution: Guatemala

spec nov	Stephani	1910	686	Spec Hepat 4: 388-389
	Bonner	1965	655	Index Hepat 5: 353-354
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 68, microfiche 51 fig 3430 [from type; "Guatemala, leg v Türckheim, Levier 6320"]

lindbergiana Gottsche 1863 1303

Subgenus: Trachycolea

Typus: Brasil. Caldas Aug. 1854, G.A. Lindberg 2967

Basionym:

Distribution: Brazil

	Gottsche	1863	103	Separata of Mex. Leverm.: 240
spec nov	Gottsche	1863	104	K Danske Vid Selks Skrifter, ser 5, 6: 336
	Buck	1994	28	Bryologist 97 (4): 422 [Brazil, Lafayette - Vainio's specimen 031811 from Brazil at TUR, collected 1885]

lindenbergii var. fusca Gottsche, Lindenb. & Nees 1847 1933

Subgenus: Caulisequa

Typus: Mexico. Veracruz, Mirador Liebmann

Basionym:

Distribution: Mexico

	Gottsche in G., L. & N.	1847	2848	Syn Hepat 5: 780
	Gottsche	1863	103	Separata of Mex. Leverm.
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 340 [Mexico]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 44 [Mexico]

lindenbergii Lehm. 1844 1305

Subgenus: Caulisequa

Typus: South Africa. Cape of Good Hope, near Zwellendam sd, L. Pappe

in hb UPS (hb LEHMANNI) [holotypus] lectotype by VandenBerghen 1976
in hb G 19729 (hb BESCHERELLE 169) isolectotype
in hb S (B24126, 24127) isolectotype
in hb GLM (hb LEHMANN) 06026

Basionym:

Distribution: Kenya, Malawi, Mozambique, Tanzania, Uganda, Zimbabwe, Seychelles (Mahé Isl), Madagascar, Mauritius, Reunion, Mascarenes, South Africa, USA, Mexico, Costa Rica, Panama, Nicaragua, Honduras, Jamaica, Guadeloupe, Dominican Rep, Venezuela, Ecuador, Brazil

spec nov	Lehmann	1844	589	Pugillus 8: 17-18
	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 447-448
	Gottsche in G., L. & N.	1847	2848	Syn Hepat: 780
	Gottsche	1858	1511	Bot Zeitung (Berlin) 16 (Beilage): 24 [Jungermannia lindenbergiana]
	Gottsche	1863	103	Separata of Mex. Leverm.: 244
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 340 [Mexico]
	Pearson	1887	872	Kristiana Vidensk Selsk Forhandl 9: 4, pl 1 (1) [Africa]
	Stephani	1911	686	Spec Hepat 4: 626
	Sim	1926	252	Trans Roy Soc S Africa 15: 47-48, figs [South Africa]
	Arnell	1963	822	Hepat S Africa: 133-135, fig 99(a-i), 100(i-l)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 339 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 33-38, fig 8 [Typification]
	Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East Africa; Zimbabwe, Tanzania]
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 106-109, pl 18, map 17, [Brasil, Rio Grande do Sul]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 211 [key to Madagascar] & 217
	Lemos Michel	1983	306	Revta brasil Bot 6 (2): 121-123, fig 27-38 [Brazil, Rio Grand do Sul] [= more propably Fr grossifolia, vide Schäfer-Verwimp et al 2012]
	Yano	1984	501	J Hatt Bot Lab 56: 505 [as L. lindbergii Gott., nom. nud. MG: Caldas (Angstroem 1876); checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-10, microfiche 48 fig 3237 [from type; "Cape Colony leg Pappe (sub Fr. gracilis in Herb Nees v Es) Original"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles (Mahé Isl), Madagascar, Reunion Isl]
	Grolle	1995	250	Bryophyt Bibl 48: 66 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 88-89 [Catalogue ... of Sub-Saharan Africa]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Porley, O'Shea, Wigginton, Matcham, Hodgetts & Stevenson	1999	711	Trop Bryol 16: 183 [Uganda]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [new to Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
	Wigginton	2001	1079	Trop Bryol 20: 94 [foliicolous taxa of Malawi]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Kenya, Mauritius, Madagascar, Malawi, Mozambique, Reunion, South Africa, Seychelles, Tanzania, Uganda, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89 [Brazil]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Kenya, Mauritius, Madagascar, Malawi, Mozambique, Reunion, South Africa, Seychelles, Tanzania, Uganda, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
	Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil, Minas Gerais; catalog] [= more propably Fr grossifolia, vide Schäfer-Verwimp et al 2012]
	Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 385 [Dominican Republic, new to Hispaniola]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 49 [Brazil]

	Schäfer-Verwimp, Peralta & Siqueira	2012	3323	Phytotaxa 57: 27-30 [lindenbergii not in Brazil (vide Lemos-Michel 1983, Yano 2008) ; divers from grossifolia]
	Vana & Engel	2013	3868	Memoirs New York Bot Gard 105: 58-59 [Tristan da Cunha Isl.]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 99-103, fig. 10 [distribution]
	Gradstein & Benitez	2020	4732	Cryptogamie, Bryologie 38(4): 338 [Ecuador, species descritption]
	Winter & Schäfer-Verwimp	2020	5742	Frahmia 19: 18 [sgen. Caulisequa, key]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 371-372 [key -Ecuador]

lindmanii Steph. 1897 1310

Subgenus: Chonanthelia

Typus: Brazil. Rio Grande do Sul sd, C.A.M. Lindmann 47
ex hb S-PA, in hb G 1613 [holotypus]

Basionym:

Distribution: Brazil, Argentina

spec nov	Stephani	1897	1059	Bihang Kgl Sv Vetensk-Akad Handl bot 23 III (2): 19-20 [Brazil]
	Stephani	1910	686	Spec Hepat 4: 391-392
	Massalongo	1927	1060	Atti Real Ist Veneto Sci 87 (2): 217 [Argentina, Spegazzinius legebat]
	Kühnemann	1949	657	Lilloa 19: 354 [Argentina: Buenos Aires]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 91, pl 13, 150(a-i) [Brazil] [description of perianth]
	Bonner	1965	655	Index Hepat 5: 354
	Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 69, microfiche 51 fig 3431 [from type; "Rio Grande 47 (Lindman leg)"]
	Reiner	1988	1043	Bol Soc Argentina Bot 25 (3-4): 322-323 [not in Prov Buenos Aires, Argentina]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89 [Brazil] [belongs to Chonanthelia, Pluricarinata]
	Uribe-M	2004	1174	Caldasia 26: 90-93 [probably conspecific with Fr paranensis]
	Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]
	Hässel de Menéndez, Rubies	2009	2273	Nova Hedwigia, Beihefte. 134: 140 [Brazil, Rio Grande do Sul, Lindman 47 (S-PA, G 1613 isotypi).
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 50 [Brazil]
	Costa	2010	3616	Brazil
	Ristow, Schäfer-Verwimp, Peralta	2015	4112	Pesquisas, Botanica 67:
	Lima	2019	5121	Frullania no Brasil [Thesis]: 66-67, fig. 6 [distribution]

linii S.Hatt. 1981 1311

Subgenus: Trachycolea

Typus: China. Kwangtung, Tingu-wu Shan 16.6.1957, Wu Han B 269
in hb NICH [holotypus], in hb South China Inst of Bot Kwangchow [isotypus]

Basionym:

Distribution: China (Guangdong, Guangxi, Fujian, Yunnan)

spec nov	Hattori	1981	491	J Hatt Bot Lab 49: 155-156, fig 245(a-i)
	Lin, Yang & Lu	1982	967	Trop Subtrop Forest Ecosys 1: 67 [China, Guangdong]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 137 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 43 [annotated catalogue of China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 402-404, fig 201(1-8) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 41 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 11-14 [Yunnan, China]
	Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, Fujian Prov.]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1108-1110, fig 517(1-8) [China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Holotype. China, Tinguwu Shan. 16 June 1957. Wu Han B269 (NICH 369959).
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 237(1-8) [key in Chinese]

lobatohastata Steph. 1911 1312

Subgenus: Meteoriopsis Intumescentes

Typus: Colombia. Nueva Granada sd, Lindig 187

in hb G G00067107 http://plants.jstor.org/specimen/g00067107

Basionym:

Distribution: Colombia, Ecuador

spec nov	Stephani	1911	686	Spec Hepat 4: 499-500
	Bonner	1965	655	Index Hepat 5: 355
	Stotler	1969	4761	Nova Hedwigia 18: 468-469, pl 32 (274-282)
	Stotler	1970	194	The genus Frullania, separata: 468-469, pl 32 (274-282)
	Gradstein, Cleef & Fulford	1977	3475	Proc Konink Nederl Akad Wetenschap, ser C:, 80: 395-396 [oil bodies]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 66, microfiche 57 fig 3967 ["N Granada, Lindig leg"] - 3968 [Blatt]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 1800-3500m: Colombia]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Uribe	2004	1174	Caldasia 26(1): 89-91 [Fr apollinari = syn sub Fr lobato-hastata]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 365, fig 8(a-h) [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 22 [Ecuador]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Gradstein	2021	5642	Mem NY Bot Gard 121: 372, fig. 38h,i [key -Ecuador, Colombia]

lobulata (Hook.) Hook. & Nees 1845 1314

Subgenus: Microfrullania Amphijubula

Typus: Cape Horn

Basionym: Jungermannia lobulata Hooker 1820

Distribution: South Africa, Juan Fernandez Isl [Chile], Chile (Magallanes), Argentina (Patagonia, Tierra del Fuego)

	Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
	Hooker & Nees in G., L. & N.	1845	2850	Syn Hepat: 445 [No 74]
	Massalongo	1895	875	Nuovo Giorn Bot Ital 17: 246 & 264 [Tierra del Fuego]
	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 67 [Patagonia]
	Stephani	1911	686	Spec Hepat 4: 663
	Massalongo	1927	1060	Atti Real Ist Veneto Sci 87 (2): 217 [Argentina, Spegazzinius legebat]
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 167 [Patagonia, Tierra del Fuego]
	Herzog in Skottsberg	1942	722	Nat Hist Juan Fernandez & Easter Island, 2: 739 [Juan Fernandez: Masafuera = Isla Alejandro Selkirk]
	Kühnemann	1949	657	Lilloa 19: 355 [Argentina: Patagonia, Tierra del Fuego]
	Engel	1978	182	Fieldiana Bot 41: 236-237 [Chile: Brunswick Peninsula]
	Schuster	1980	775	Phytologia 45 (5): 435 [comb nov as Amphijubula lobutata]
	Hattori & Mitzutani	1982	495	J Hatt Bot Lab 52: 447 [is Frullania, not Amphijubula]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-38, microfiche 48 fig 3275 ["Fred magellanicum"]
	Engel	1988	111	Fieldiana Bot NS 25: 164 [not at Falkland Isl]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 442 [chemosystematic; sesquiterpene lactone-type]
	v Konrat, Hentschel, Heinrichs & Braggins	2011	2580	Bryologist 114(1): 60-63, fig 2(A-K) [revision of Frullania, sg Microfrullania, sect nov Amphijubula]
	Heinrichs et al	2012	3236	Fossil Record 15(2): <115-120>
	Carter et al	2017	4326	Molecular Phylogenetics and Evolution 107: <16-26>

longistipula var. apiculata Demaret & Vanden Berghen 1950 1319

Subgenus: Meteoriopsis Intumescentes

Typus: Cameroun, 1840 m 6.10.1910, Hintz 4

in hb G

Basionym:

Distribution: Cameroon

	Demaret & Vanden Berghen	1950	60	Bull Jard Bot Etat Bruxelles 20: 4
	Bonner	1965	655	Index Hepat 5: 356

longistipula Steph. 1891 1317

Subgenus: Meteoriopsis Intumescentes

Typus: Madagascar. Imerina, Ankadivavala sd, Camboue 162

hb Stephani 188, in hb G [holotypus], in hb PC [isotypus]

Basionym:

Distribution: Madagascar

spec nov	Stephani in Renauld & Cardot (?)	1891	1602	Bull Soc Roy Bot Belg 30 (2): 199
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Madagascar] [St. n. sp.]
	Stephani	1892	1121	Hedwigia 31: 202
	Stephani	1911	686	Spec Hepat 4: 591-592
	Demaret & Vanden Berghen	1950	60	Bull Jard Bot Etat Bruxelles 20: 3-4, fig 2 [type]
	Bonner	1965	655	Index Hepat 5: 356
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 73-76, fig 18(a-n)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 347 [map of Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 210 [key to Madagascar] & 218
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E- 5, microfiche 55 fig 3769 ["Madagascar, Camboue 162"] - 3770
	Grolle	1995	250	Bryophyt Bibl 48: 66 [afr3]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Madagascar] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Madagascar] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Uribe	2008	1513	Caldasia 30(1): 91, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]

longistyla Yuzawa & S.Hatt. 1988 1320

Subgenus: Trachycolea

Typus: Haiti. 350m ?, Leonard 7308

in hb NICH [holotypus], in hb NY [isotypus]

Basionym:

Distribution: Haiti

	Yuzawa & Hattori	1988	139	J Jap Bot 63 (11): 361-364, fig 1 [close to brevicalycina]

loricata Pearson 1891 1321

Subgenus: Diastaloba Diastaloba III

Typus: Madagascar. In silva "Alamazautra" July 1882, Borgen

hb KIAER 99, in hb O /Oslo [holotypus]

Basionym:

Distribution: Malawi, Mozambique, Uganda, Tanzania, Madagascar

spec nov	Pearson	1891	1921	Christiania Videnskabs-Selskabs Forhandlinger 1890 (2): 6-8, pl 3(1-12) [Madagascar]
	Stephani in Levier	1901	1456	Rev Bryol 28 (5): 94 [Madagascar]
	Stephani	1911	686	Spec Hepat 4: 488-489 [Fr loricata Kiaer & Pears.]
	Bonner	1965	655	Index Hepat 5: 356
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 92-98, fig 23, 24
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 352 [map of Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 209 [key to Madagascar] & 219-220, fig 3b
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 23c, microfiche 56 fig 3903 ["olim Fr robusta Kiaer, ex Herb Renauld; Madagascar, leg Borgen"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 23b, microfiche 56 fig 3902 ["(olim Fr laxepinnata) Madagascar, Renauld 310"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 23a, microfiche 56 fig 3901 ["olim Frull Bessonii St, Frull laxepinnata St nsp olim; Madagascar; Sikora 1891, inter 56"]
	O'Shea	1993	985	J Bryol 17: 648 [Malawi]
	Grolle	1995	250	Bryophyt Bibl 48: 66-67 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 89 [Catalogue ... of Sub-Saharan Africa]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Sim-Sim, Fontihna, Mues & Lion	2000	749	Nova Hedwigia 71 (1-2): 192
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5 [Mulanje Mt, Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Madagascar, Malawi, Tanzania, Uganda] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Madagascar, Malawi, Tanzania, Uganda] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

ludoviciae Steph. 1908 1327

Subgenus: Trachycolea

Typus: New Caledonia. Ile des pins sd. Le Rat

hb E.G.PARIS 210, in hb G

Basionym:

Distribution: ?Indonesia (Sumbawa), New Caledonia (Isles of Pines)

spec nov	Stephani	1908	870	Rev Bryol 35: 29
	Paris	1910	1455	Rev Bryol 37 (6): 130 [New Caledonia: Mé Areinbo]
	Stephani	1911	686	Spec Hepat 4: 466-467
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 162 [Sumbawa, Isles of Pines]
	Bonner	1965	655	Index Hepat 5: 357
	Hattori	1977	479	J Hatt Bot Lab 43: 424 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 131
	Hattori	1984	503	J Hatt Bot Lab 57: 419
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-154, microfiche 52 fig 3548 [from type; "Ncaledonia, leg Mme Lerat, publ Husnot"]
	Hattori	1986	506	J Hatt Bot Lab 60: 215-216, fig 5 [as Fr. ludviciae; may be conspecific with Fr. pusilla]

lushanensis S.Hatt. & P.J.Lin 1985 1328

Subgenus: Trachycolea

Typus: China. Jiangxi, Lushan -.8.1964, P.J. Lin 297

in hb NICH [holotypus]

Basionym:

Distribution: China (Hunan)

Hattori & Lin	1985	505	J Hatt Bot Lab 59: 137-139, fig 2
Piippo	1990	521	J Hatt Bot Lab 68: 43 [annotated catalogue of China]
Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
Fang, Enroth, Koponen & Piippo	1998	704	Hikobia 12 (4): 347 [China: Jiangxi Prov]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Holotype. China, Lushan, Jiangxi. On bark. 8 Aug. 1964. P. J. Lin297(NICH 401073).

macgregorii var. rostellula (S.Hatt.) S.Hatt. 1982 1335

Subgenus: Diastaloba Diastaloba I

Basionym: Frullania reimersii var. rostellula S.Hatt. 1974

Distribution: New Guinea [Papua New Guinea]

Hattori	1982	495	J Hatt Bot Lab 51: 220 [comb nov]
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 31

macgregorii Steph. 1894 1332

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea. "Nova Guinea", in Mte. Knutsford. 13,000ft 1889, Sir Wm. MacGregor sn

in hb G G00066756 - n° SIB 129377/1 - 14236 (hb STEPHANI 174, ex hb MEL, comm. Baron Ferd. Von Müller) [holotypus] < see fr1332.jpg

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

spec nov	Stephani	1894	228	Hedwigia 33: 154
	Stephani	1911	686	Spec Hepat 4: 614
	Verdoorn	1930	293	Ann Bryol Suppl 1: 144-146, fig 250-252
	Verdoorn	1930	549	Nova Guinea 14 (4): 545
	Bonner	1965	655	Index Hepat 5: 358
	Hattori	1973	542	J Hatt Bot Lab 37: 150 [New Guinea]
	Hattori	1974	546	J Hatt Bot Lab 38: 243 [New Guinea] [may be conspecific with Fr. reimersii var wilhelmensis]
	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 144-146, fig 160
	Hattori	1978	482	J Hatt Bot Lab 44: 533-535, fig 206
	Hattori	1982	495	J Hatt Bot Lab 51: 219-220
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 109 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-52, microfiche 56 fig 3847 ["Nova Guinea, Mt Knuteford 13000f, Sir W Macgregor leg, 1889"] - 3848
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 31
	Hattori	1988	516	J Hatt Bot Lab 65: 436-437 [PNG]
	Uribe	2008	1513	Caldasia 30(1): 91, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]

macrocephala (Lehm. & Lindenb.) Lehm. & Lindenb. 1845 1337

Subgenus: Meteoriopsis Intumescentes

Typus:

Type:—PERU. s. loc. Kunze s. n. (W, lectotype designated by Stotler 1969).

Basionym: Jungermannia macrocephala Lehm. & Lindenb. 1833

Distribution: Mexico, Costa Rica, Panama, Jamaica, Dominican Rep, Venezuela, Colombia, Peru, Bolivia, Ecuador

comb nov	Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 460
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 48
	Stephani	1911	686	Spec Hepat 4: 521
	Bonner	1965	655	Index Hepat 5: 358
	Stotler	1969	4761	Nova Hedwigia 19: 439-441, pl 9 (68-75) [Jamaica]
	Stotler	1970	194	Nova Hedwigia 19: 439-441, pl 9 (68-75) [Jamaica]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
	Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
	Menzel	1984	142	Willdenowia 14: 489 [Peru]
	Steyermark & Maguire	1984	1205	Acta Bot Venezuelica 14(3): 70 [Venezuela]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 68, microfiche 57 fig 3973 ["Peru, Poeppig, Herb Un Lips"] - 3974
	Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 36 [Catalogue Colombia]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
	Kürschner & Parolly	1998	681	Nova Hedwigia 66 (1-2): 80 [Peru]
	Drehwald	2003	2813	Cambios en la vegetación briofítica: 292 [Peru (Bosque Protector Alto Mayo)]
	Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 415, 416, tab 7 [Podocarpus NP, Ecuador, epiphytic]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 385 [Dominican Republic, new to Hispaniola]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 368 [Colombia; synopsis of Frullaniacae & keys]
	Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 22 [Ecuador]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):214 [Panama]
	Hentschel et all	2015	4079	Phytotaxa 220 (2): 136
	Graham et al	2015	4766	Acta Biologica Plantarum Agriensis 4: 16 [Peru] – und andere Seiten
	Gradstein	2021	5642	Mem NY Bot Gard 121: 372-373, fig. 38j,k [key -Ecuador, Colombia]

macrophylla S.Hatt. 1980 4

Subgenus: Homotropantha Homotropantha

Typus: Taiwan. Tai-ping Shan, Ilan Hsien, 2100m 6.3.1966, H. Inoue 17149, 17150, 17190 [holotype], 17191 in hb NICH [holotypus], in hb TNS [isotypus]

Basionym:

Distribution: Taiwan

spec nov	Hattori	1980	490	J Hatt Bot Lab 47: 220, fig 35
	Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 39 [Formosa]
	Hattori	1985	505	J Hatt Bot Lab 59: 153 [Taiwan]
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 43 [annotated catalogue of China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Holotype. Taiwan, Ban Hsien, Tai-ping Shan. 2100 m. 6 Mar. 1967. H. Inoue 17190 (NICH 432015).

macularis Taylor 1846 1346

Subgenus: Trachycolea

Typus: West Indies. St. Vincent sd, Rev. L. Guilding

typus in hb S (B24132)

Basionym:

Distribution: St. Vincent

spec nov	Taylor	1846	292	London J Bot 5: 403-404
	Taylor in G., L. & N.	1847	2848	Syn Hepat: 777-778
	Stephani	1911	686	Spec Hepat 4: 675
	Bonner	1965	655	Index Hepat 5: 359
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]

madagascariensis Gottsche 1882 1347

Subgenus: Incertae sedis

Typus: Madagascar. "aliis Hepaticis adharentem legit Dr. Rutenberg" Rutenberg

Basionym:

Distribution: Madagascar

spec nov	Gottsche	1882	254	Abh Naturwiss Ver Bremen 7 (3): 364 [Madagascar]
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Indian Ocean]
	Stephani	1911	686	Spec Hepat 4: 623
	Bonner	1965	655	Index Hepat 5: 359
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 13 [from Madagascar]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-11, microfiche 48 fig 3238 ["Madagascar leg Dr Rutenberg"]
	Grolle	1995	250	Bryophyt Bibl 48: 147 [? according to Vanden Berghen 1976 nomen dubium]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [nom dub?; Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [nom dub?; Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

madens Steph. 1924 1348

Subgenus: Frullania

Typus: Papua New Guinea. East Sepik, "Kaiser Wilhelmsland, Zager Felsspitze", 1400-1500m 7.8.1913, Ledermann 12669

in hb G 4083 [holotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea)

spec nov	Stephani	1924	687	Spec Hepat 6: 553
	Verdoorn	1930	293	Ann Bryol Suppl 1: 147-148, fig 249 [Neu Guinea]
	Verdoorn	1930	549	Nova Guinea 14 (4): 545 [(sgen Meteoriopsis]
	Bonner	1965	655	Index Hepat 5: 359 [Neu Guinea]
	Hattori	1975	547	J Hatt Bot Lab 39: 292 [New Guinea - perichaetial leaves and underleaves are toothed]
	Hattori	1980	489	J Hatt Bot Lab 47: 116-117, fig 234(a-i) [New Guinea]
	Hattori	1982	495	J Hatt Bot Lab 51: 220-221 [New Guinea, key - sgen Frullania, sect Vaginatae]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia, West Irian - Papua New Guine]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-146, microfiche 59 fig 4083 ["Nova Guinea (Ledermann legit)"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-54, microfiche 56 fig 3850 ["Nova Guinea (Ledermann legit"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 31 [Endemic to Papua New Guinea, sgen Frullania]
	Uribe	2008	1513	Caldasia 30(1): 91, [type was not available] [Monography of subgenus Meteoriopsis]
	Söderström et al	2016	4175	Phytokeys 59: 269 [sgen Diastaloba, grp. Diastaloba I]

madothecoides Spruce 1884 1349

Subgenus: Meteoriopsis Intumescentes

Typus: Peru. "Peruvian Andes", Mt. Lamas, 750m sd, Spruce
in hb E E00002540 [isotypus]

Basionym:

Distribution: Peru

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 44 & 47
	Stephani	1911	686	Spec Hepat 4: 520-521
	Bonner	1965	655	Index Hepat 5: 360
	Stotler	1969	4761	Nova Hedwigia 18: 471-462, pl 25(218-225)
	Stotler	1970	194	The genus Frullania, separata: 471-462, pl 25(218-225)
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 69, microfiche 57 fig 3975 ["Andes peruvianai, in Monte Lamas, leg Spruce"]

magellanica F.Weber & Nees 1845 1351

Subgenus: Microfrullania F. magellanica complex

Basionym: Jungermannia magellanica Spreng. 1809 [non Lamarck 1789]

Distribution: Juan Fernandez Isl [Chile], Chile (Magallanes), Argentina (Patagonia, Tierra del Fuego), Falkland Isl [Argentinia], Tasmania, Campbell Isl [New Zealand]

	Weber & Nees in G., L. & N.	1845	2850	Syn Hepat: 446
	Hooker	1867	1154	Handbook New Zealand Flora: 538 [Campbell's Isl]
	Schiffner	1889	581	Forschungsreise S.M.S. "Gazelle" 4 (4): 39
	Massalongo	1895	875	Nuovo Giorn Bot Ital 17: 246 & 264 [Tierra del Fuego]
	Stephani	1911	686	Spec Hepat 4: 664
	Stephani	1911	721	Kungl Svenska Vetenskapsakad Handl 45 (9): 88 [Feuerland, Westpatagonia]
	Massalongo	1927	1060	Atti Real Ist Veneto Sci 87 (2): 217-218, pl 1(1-8) [Argentina, Spegazzinius legebat]
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 167 [Patagonia, Tierra del Fuego]
	Herzog in Skottsberg	1942	722	Nat Hist Juan Fernandez & Easter Island, 2: 739 [Juan Fernandez: Masatierra, Masafuera]
	Kühnemann	1949	657	Lilloa 19: 355 [Argentina: Patagonia, Tierra del Fuego]
	Herzog	1954	202	Rev Bryol Lichen 23: 59 [Chile]
	Arnell	1956	881	Svensk Bot Tidskr 50 (2): 309 [Chile]
	Clark & Palm	1961	396	Bryologist 64: 78-80, fig 1-26 [= Fr fertilis]
	Hodgson	1962	658	Rec Dominian Mus 4 (11): 125 [Campbell Isl]
	Bonner	1965	655	Index Hepat 5: 360
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Engel	1978	182	Fieldiana Bot 41: 237-239 [Chile: Brunswick Peninsula; Fr. fertilis as synonym]]
	Hattori & Mizutani	1982	497	J Hatt Bot Lab 52: 446 [? subg Rostratae]
	Hässel de Menéndez	1983	48	Lindbergia 9: 93-98, fig 1(1-8) [types, Fr. fertilis is not synomymous]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-39, microfiche 48 fig 3276 ["(Fretum magellanic) Magellan. Strasse Original Herb Sprengel"]
	Hässel de Menéndez & Solari	1985	4660	Flora Crypt Tierra del Fuego 15: [1-181]
	Engel	1988	111	Fieldiana Bot NS 25: 162-163 [Falkland Isl]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 442 [chemosystematic; sesquiterpene lactone-type]
	Hässel de Menéndez & Rubies	2009	2273	Catalogue of Marchantiophyta and Anthoceratophyta of southern South America: 141 [Argentina, Chile]
	Carter et al	2017	4326	Molecular Phylogenetics and Evolution 107 :23-24 [F. magellanica complex: magellanica & fertilis]

magellanica ssp. tristaniana (S.W. Arnell) Váňa & J.J. Engel 2013 2462

Subgenus: Microfrullania F. magellanica complex

Typus: Tristan da Cunha: Round Hill, on Phylica 600m

Basionym: Frullania tristaniana S.W.Arnell 1958

Distribution:

comb nov	Vana & Engel	2013	3868	Memoirs New York Bot Gard 105: 59-60 [Tristan da Cunha Isl.]

magniloba Caspary 1887 2239

Subgenus:

Typus: FOSSIL.

Basionym:

Distribution: Fossil (Eocene) in Baltic amber, Germany

spec nov	Caspary	1887	977	Schriften phys-ökonom Gesell Königsberg 27: 5, pl 1 fig 19-20
	Caspary & Klebs	1907	622	Abh königl Preuß Geol Landesanstalt, NF 4: 40-42, Atlas fig 33(a-b)
	Grolle	1985	621	Prace Muz Ziemi z 37: 96 [sub Jungermannites nessianus]
	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 17 [as nom illeg vide Grolle 1985: 96

mammilligera Grolle 2003 2219

Subgenus:

Typus: Fossil. Inclusion in Bitterfeld Amber, Eocene

Institut für Paläontologie, Humboldt-Universität Berlin Nr. 1997/32 [Holotypus]

Basionym:

Distribution: Fossil (Eocene) in Bitterfeld amber, Germany

spec nov	Grolle	2003	974	Cour Forsch-Inst Senckenberg 241: 155-161, pl 1-2
	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 24, pl. 8(a-e)

mammillosa S.Hatt. 1977 1356

Subgenus: Mammillosae

Typus: New Caledonia.

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1977	479	J Hatt Bot Lab 43: 424-426, fig 10 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 131
	Hattori	1984	503	J Hatt Bot Lab 57: 419
	Hattori	1986	506	J Hatt Bot Lab 60: 227
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Holotype. New Caledonia, Mts. Kouvelee. 650 m: In bushy serpentine forest, on stem of Myodocaupus sp. 30 Mar. 1951. H. Hurlimann 2464 (NICH 353832).

matafaoica H.A.Mill. 1981 1357

Subgenus: Microfrullania

Basionym: Frullania minutissima Pearson 1924 [hom illeg] [non Colenso 1887, nec Schiffner 1900]

Distribution: Samoa (Tutuila)

nom nov	Miller	1981	439	Phytologia 47 (4): 322
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 132

mauritiana Austin 1869 1360

Subgenus: Incertae sedis

Typus: Mauritius sd, C.H. Peck

Basionym:

Distribution: Mauritius

	Austin	1869		Proc Acad Nat Sci Philadelphia 1869 (Separata): 10
	Austin	1870	1339	Proc Acad Nat Sci Philadelphia 21: 227
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Maurice]
	Stephani	1911	686	Spec Hepat 4: 622
	Bonner	1965	655	Index Hepat 5: 361
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 13 [from Mauritius]
	Grolle	1995	250	Bryophyt Bibl 48: 147 [? according to Vanden Berghen 1976 nomen dubium]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [nom dub?; Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [nom dub?; Dubia et Excluenda from Africa] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

maymyoensis Svihla 1958 1361

Subgenus: Trachycolea

Typus: Burma. Shan States, Maymyo, Circular Road, 3500ft 14.11.1952, Svihla 1312

in hb WTU

Basionym:

Distribution: Burma

spec nov	Svihla	1958	390	Bryologist 61: 376-379, fig 1-19
	Bonner	1965	655	Index Hepat 5: 362
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 66 [Burma]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29; Isotype. Burma, Maymyo. 14 Nov. 1952. R. D. Svihla 1312 (NICH 432018). Another isotype specimen: NICH 432019.

mcveanii S.Hatt. 1973 1362

Subgenus: Microfrullania Regulares

Typus: New Guinea. Mt Wilhelm, 4400m -.5.1966, D.N. McVean 266269

in hb NICH

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

spec nov	Hattori	1973	540	J Hatt Bot Lab 37: 55-57, fig 22 [New Guinea, key to all 5 Rostratae species]
	Hattori	1974	546	J Hatt Bot Lab 38: 243-244, fig 119 [better placed in sect. Regulares than Rostratae]
	Hattroi	1975	547	J Hatt Bot Lab 39: 292
	Hattori	1975	547	J Hatt Bot Lab 39: 292
	Hattori	1982	495	J Hatt Bot Lab 51: 234
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 37
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 29: Holotype. New Guinea, Mt. ~i1helm. 4400 m. May 1966. D. N. McVean 266269 (NICH 298740).

media (E.A.Hodgs.) S.Hatt. 1983 1363

Subgenus: Trachycolea Australes

Basionym: Frullania fugax var. media E.A.Hodgs. 1949

Distribution: New Zealand

comb et stat nov	Hattori	1983	499	J Hatt Bot Lab 54: 153-154, fig 60
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 442 [chemosystematic; sesquiterpene lactone-type]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 5th of 6 pages [Key to Frullania of New Zealand]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]

mehrana S.Hatt. 1976 2395

Subgenus: Diastaloba Diastaloba I

Typus: Philippines, Luzon, [mossy forests] Mt. Data, Mountain Prov., 2100-2300 m, June 7, 1965, Iwatsuki, A. J. & E. Sharp 17496a. (subg. Frullania.)

in hb NICH [holotypus], in hb TENN [dupl.]

Basionym:

Distribution: Philippines

spec nov	Hattori in Kachroo	1976	1731	Recent Advances in botany: 66-69, fig 1(a-j) fig 2(a-c)
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 303 [Philippines]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. Philippines, Luzon, Mountain Prov., Mt. Data. 2100-2300 m. On branch. 07 June 1965. Z. Iwatsuki, A. J. and Evelyn Sharp 17496a (NICH 267237).

meijeri S.Hatt. 1974 1365

Subgenus: Mammillosae

Typus: Indonesia. Borneo, Bangko, Sungai "East Borneo, district Samarinda, along S.Bangko near Sanga2, Mangrove - forest." -/8/1952, Meijer, W. B 3118

in hb L L0060933 [holotypus]

Basionym:

Distribution: Malaysia (Sabah), Borneo

	Hattori	1974	64	Bull Natn Sci Mus Tokyo 17 (4): 307-310, fig 1-2
	Hattori	1975	547	J Hatt Bot Lab 39: 292
	Hattori	1976	80	J Hatt Bot Lab 40: 485-486
	Hattori	1976	728	J Jap Bot 51 (7): 197-198 [key to Fr. tixieri & Fr. meijeri]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. Borneo, Sagen, Mt. Silam. 900-1000 m. On tree trunk. 13 June 1963. Z. Iwatsuki 5468 (NICH 255468).

meridana Steph. 1911 1366

Subgenus: Meteoriopsis Intumescentes

Typus: Venezuela. Colonia Tovar sd, Moritz

in hb G 13644 [holotypus]

Basionym:

Distribution: Venezuela, Colombia, Ecuador, Peru

spec nov	Stephani	1911	686	Spec Hepat 4: 500 [= sgen Frullania]
	Bonner	1965	655	Index Hepat 5: 362
	Stotler	1969	4761	Nova Hedwigia 18: 469-470, pl 33(283-289)
	Stotler	1970	194	The genus Frullania, separata: 469-470, pl 33(283-289)
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 70, microfiche 57 fig 3976 ["Merida, Colonia Tovar, Moritz"]
	Gradstein & Florschütz-de	1989	1237	Trop Bryol 1: 42 [Venezuela, Mt Roraima]
	Schuster	1992	603	Hepat N America 5: 43
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Uribe-M.	2004	1238	Trop Bryol 25: 30, fig 1(a-h) [evaluation of taxonomy; to subg Thyopsiella]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 368, fig 9(a-h) [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 22 [Ecuador]
	Graham et al	2015	4766	Acta Biologica Plantarum Agriensis 4: 16 [Peru] – und andere Seiten
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Gradstein	2021	5642	Mem NY Bot Gard 121: 373, fig. 38l [key -Ecuador, Colombia]

mexicana Lindenb. 1845 217

Subgenus: Chonanthelia

Typus: Habitat in regno Mexicano "in Gaylussacia buxifolia" (Hb. N. [Nees] sub nomine Frullaniae glomeratae) coll. ign.

Types:—[Mexico] auf Gaylussacia bux. (STR!, lectotype designated here; W! (2014-06935), isolectotype).

Basionym:

Distribution: Mexico

spec nov	Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 425 (No 29)
	Gottsche	1863	103	Separata of Mex. Leverm.: 241
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 337 [Mexico]
	Stephani	1910	686	Spec Hepat 4: 329
	Stephani	1910	686	Spec Hepat 4: 342 [syn sub Fr. tetraptera]
syn nov	Evans	1923	865	Bryologist 26: 65-66 [syn nov sub Fr. inflata]
	Clark & Svihla	1944	312	Bryologist 47: 196 [syn sub Fr. inflata]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 85 [syn sub Fr. tetraptera] [Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 43, microfiche 46 fig 3131 ["Mexico ex herb Nees Jack missit sehr wahrscheinlich!"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 44 [Mexico]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 226 [syn sub Fr. tetraptera]
	Schuster	1992	603	Hepat N America 5: 196 [syn sub Fr. inflata var. inflata]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 173 [syn sub Fr. inflata]
	Atwood	2017	4713	Evansia 34 (4): 105-108 [distinctions between F. inflata and F. tetraptera are presented]
valis spec	Atwood & Mamontov	2018	4982	Phytotaxa 383(2): 206-212 [lectotypification]
	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 223

meyeniana Lindenb. 1845 1369

Subgenus: Meteoriopsis Obtusilobae

Typus: Hawai. Oahu sd, Meyen sn

in hb NEES; holotypus: W-7473; isotypus in hb G; ? typus in hb S (B24139)
in hb E

Basionym:

Distribution: China (Hainan), Taiwan, Japan (Honshu, Kyushu, Shikoku), Ryukyu (Amami), Bonin Isl (Chichijima, Hahajima), India (North: Assam, Meghalaya (Shillong, Cherrapunji)), Sri Lanka, Laos, Cambodia, Vietnam, Thailand, Burma, Malaysia (Pahang, Sabah), Borneo, Indonesia (Java, Bali, Sumatra), Philippines (Luzon), New Caledonia, Society (Tahiti), Hawaii (Kauai, Oahu, Molokai, West Mauri, Hawaii Isl)

spec nov	Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 455
	Mitten in Seemann	1871	637	Flora Vitiensis: 417 [Hawaii]
	Lindenberg	1894		H 33: 168
	Stephani	1897	214	Bull Herb Boissier 5: 842[:260] [Hawaii]
	Evans	1900	236	Trans Connet Acad Arts Sci 10 (1): 402, pl 45(8-14) [Hawaii]
	Stephani	1911	686	Spec Hepat 4: 555
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 167-168
	Verdoorn	1930	293	Ann Bryol Suppl 1: 81-82, fig 58 [Java, Philippines]
	Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 37; Java]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 58 [Java]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 205 [B.N. Borneo: Mt Kinabalu, Java] & 221, fig 30 [map]
	Nicholson	1942	679	Rev Bryol Lichen 13: 144 [Hawai]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 146-148, fig 91(a-d), 92(a-j) [Japan, key iorspecies n Japanese]
	Hattori	1951	528	J Hatt Bot Lab 5: 64
	Hattori	1952	529	J Hatt Bot Lab 8: 29
	Miller	1953	349	Bryologist 56: 46-47
	Hattori, Iwatsuki & Kanno	1956	862	J Hatt Bot Lab 16: 93
	Svihla	1960	395	Bryologist 63: 106-107 [Burma]
	Inoue	1961	964	J Jap Bot 36(5): 187-188 [new to Formosa]
	Kamimura	1961	199	J Hatt Bot Lab 24: 73-74, fig 26(1-18), map 11
	Miller	1963	834	Ark Bot, ser 2, 5: 519 [Hawaii]
	Bonner	1965	655	Index Hepat 5: 363
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 204 [Ryukyu Arch.]
	Inoue & Iwatsuki	1968	61	Bull Natn Sci Mus Tokyo 12 (2): 303
	Inoue in Inoue & Iwatsuki	1970	62	Bull Natn Sci Mus Tokyo 13 (3): 478
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 127-128 [Central Japan]
	Hattori	1972	538	J Hatt Bot Lab 36: 115-116, fig 5 [Fr tonkinensis]
	Tixier	1973	427	Nat Hist Bull Siam Soc 24 (3/4): 456 [Thailand]
	Hattori	1975	547	J Hatt Bot Lab 39: 292-293
	Hattori	1976	80	J Hatt Bot Lab 40: 486
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 443 [Thailand]
	Hattori & Thaithong	1978	128	J Jap Bot 53 (6): 173 [Laos]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 185-186 [Assam
	Hattori	1979	129	J Jap Bot 54 (1): 24 [Sri Lanka]
	Tixier	1979	2408	Bryophyt Bibl 18: 62 [Cambodge]
	Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 39 [Formosa]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 114 [Taiwan]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 132
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 132
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-172, microfiche 59 fig 4113 ["Hawai, Oahu, Meyen leg"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 158 [China]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 303 [Philippines]
	Scott	1987	1700	Queensland Naturalist 28(1-4): 64 [from Cape York peninsula]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Piippo	1990	521	J Hatt Bot Lab 68: 43 [annotated catalogue of China]

Chao & Lin	1991	458	Yushania 8: 11 & 13 [Taiwan]
Chao & Lin	1992	460	Yushania 9: 204, fig 11(a-g) [Taiwan]
Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
Lin & Chen	1997	1130	Biol Bull 75: 92-93, fig 10(a-d) [Taiwan, key to species, in Taiwanese]
Yuzawa	2000	1659	Natural Environmental Sci Res 13: 18, fig 14(a-q) [Japan, keys to species; in Japanese]
Bapna & Kachroo	2000	712	Hepaticology in India II: 194
Lin	2000	1524	Liverwort Flora Taiwan: 163, foto p 163, fig p 163(1-4) [Taiwan]
Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 277-278, map 11 - Unpublished thesis.
McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
So & Wang	2006	1466	J H B L 100: 424-425, fig 1(e-g) [Hawai, key to Hawaiian species]
Staples & Imada	2006	1716	Trop bryol 28: 28 [Hawaii]
Manachit	2006	2326	Thesis: Doi Suthep-Pui National Park, Chiang Mai Province [Thailand]: 139-140, fig 38(1-6)
Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 76, fig 1[map], [India, Meghalaya, Eastern Himalayas]
Chantanaorrapint	2010	2339	Thesis; Epiphytic bryophytes in Southern Theiland, p. 78 [Thailand]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Haerida	2015	4229	Floribunda 5(2): 72 [Bali, with key]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 79-81, fig 37(a-g) [checklist & revision of genus Fullania, Thailand]
Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 28, photos [Sumatra, with key]
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

meyeniana var. dioica S.Hatt. 1977 1376

Subgenus: Meteoriopsis Obtusilobae

Typus: New Caledonia.

Basionym:

Distribution: New Caledonia

var nov	Hattori	1977	479	J Hatt Bot Lab 43: 426 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 132
	Hattori	1984	503	J Hatt Bot Lab 57: 419
	Hattori	1986	506	J Hatt Bot Lab 60: 230
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. New Caledonia, Mts. Kouanemoa. 250 m. On bark of Podochrosia tree. 2 Feb. 1951. H. Hurlimann 2336 (NICH 353848).

microauriculata Verd. 1929 1377

Subgenus: Trachycolea

Typus: Indonesia. Java, Prov Preanger, Cibodas, 1420m 20.4.1894, Schiffner "iter Indicum No 1623"
in hb VERDOORN 4789 [lectotypus by Hattori 1976: 19]
in hb E E00293978 (27.5.1894, Schiffner 1615) [isosyntypus]

Basionym:

Distribution: Sri Lanka, Indonesia (Java), Philippines (Luzon)

	Verdoorn	1929	245	Ann Bryol 2: 126-128, fig 3
	Verdoorn	1929	548	Ann Jard Bot Buitenzorg 40: 141
	Verdoorn	1930	293	Ann Bryol Suppl 1: 41-42, fig 22, 56
	Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 31; Java] & 136
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 488 [Java]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 54-55 [Java]
	Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
	Bonner	1965	655	Index Hepat 5: 364
	Hattori	1975	547	J Hatt Bot Lab 39: 293 [Philippines]
	Hattori	1976	67	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (1): 16-19, fig 176-177
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 68 [is sibling species to Fr. pariharii from India]
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 303 [Philippines]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Western Himalaya, Eastern Himalaya]
	Söderström, Gradstein, Hagborg	2010	2314	Phytotaxa 9: [Java, checklist]
	Gradstein	2011	3250	p. 80, fig 20 (Java)
	Gradstein	2011	3639	(Java) only keys
	Akmal	2012	3438	(Java)
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]

microcaulis Gola 1923 1380

Subgenus: Microfrullania Amphijubula

Typus: Chile. Prov Magellanes, bay W of B. Parry 17.2.1913, Gasperi
in hb FI (- c. per. + o/) [holotypus]

Basionym:

Distribution: Chile (Tierra de Fuego), Argentina (S Patagonia), Falkland Isl [Argentinia]

spec nov	Gola	1923	823	Nuovo Giorn Bot Ital, ser 2, 29: 172, pl 2(20-27)
	Engel	1978	182	Fieldiana Bot 41: 239-241 [Chile: Brunswick Peninsula]
	Schuster	1980	775	Phytologia 45 (5): 435 [comb nov as Amphijubula microcaulis]
	Hattori & Mizutani	1982	495	J Hatt Bot Lab 52: 477
	Stotler & Crandall-Stotler	1987	767	Memoirs of The New York Botanical Garden 45: 536
	Engel	1988	111	Fieldiana Bot NS 25: 163, fig 81(1-19) [Falkland Isl.]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 442 [chemosystematic]
	Konrat	2004	2642	Discover Life - Fotos - http://www.discoverlife.org/mp/20q?search=Frullania+microcaulis (accessed 5.6.2011)
	Konrat, Hentschel, Heinrichs & Braggins	2011	2580	Bryologist 114(1): 57-60, fig 1(A-I) [revision of Frullania, sg Microfrullania, sect nov Amphijubula]

microcephala Gottsche 1863 1383

Subgenus: Meteoriopsis Intumescentes

Typus: Mexico. Hazienda de Mirador, 3000ft -.8.-, Liebmann

in hb SCHIMPER

Basionym:

Distribution: Mexico, Guatemala, Costa Rica, Panama, Brazil

spec nov	Gottsche	1863	103	Separata of Mex. Leverm.: 251 [Mexico]
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 347 [Mexico]
	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 89 [Brazil]
	Stephani	1911	686	Spec Hepat 4: 512 [Mexico]
	Clark	1954	366	Bryologist 57: 233-235, fig 1-14 [similar to Fr. beyrichiana]
	Bonner	1965	655	Index Hepat 5: 364 [Mexico, Guatemala, Panama, Costa Rica]
	Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 71, microfiche 57 fig 3977 ["Mexico, Liebmann, Abbild nach Gottsches Zeichnung"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 44 [Mexico]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]

microphylla (Gottsche) Pearson 1894 757

Subgenus: Frullania Microphyllae

Basionym: Frullania tamarisci var. microphylla Gottsche 1862

Distribution: England [St. Kilda], Ireland, Faroe Isl, Germany (Eifel), France, Spain, Portugal, Italy, Madeira [Portugal], Azores [Portugal], Canary Isl (Fu Go Lz Pa Te) [Spain], Morocco, Tunisia

stat nov	Pearson	1894	1949	J Bot Brit Foreign 32: 328-330
	Cavers	1907	897	Naturalist 1907 (Jan/Feb): 11-16 & 46-49 [Yorkshire]
	Bryhn	1908	1585	Kgl Norske Vid Selks Skrift 8: 12 [Bryoph Archipel Canar, Teneriffa]
	Stephani	1911	686	Spec Hepat 4: 567-568
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 623-625 [
	Broeksmith	1928	1040	Ann Bryol 1: 13 [Canary Isl, TE]
	Schiffner	1936	2561	Krit Bemerk europ Leberm, ser 21: 4 [Hepat europ exsicc, nr. 1004, 1005, 1006pp]
	Mädgefrau	1943	2799	Flora NF 37: 135 [Teneriffa]
	Jelenc	1950	1707	Soc Geogr Arch Prov d'Oran 74 (fasc 228): 72 [North Africa]
	Gaume	1955	956	Rev Bryol Lichen NS 24 (1/2): 21 [France; Bretagne]
	Jovet-Ast	1956	955	Rev Bryol Lichen NS 25 (1/2): 136-158 [Maroc]
	Arnell	1956	43	Moss Flora of Fennoscandia: 257
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1243-1244, fig 484
	Arnell	1961	180	Svensk Bot Tidskr 55 (2): 391 [Teneriffe]
	Augier & Noailles	1969	829	Ann Fac Sci Univ Fed Cameroun 2: 29, 32-33 [Canary Isl: Tenerife]
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 310-311 [key to europa & macaronesia]
	Sjögren	1975	733	Svensk Bot Tidskr 69: 257-258 [epiphyllous, Madeira]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 119-121, fig 29(a-f)
	Sjögren	1978	1696	Mem Soc Brot 26: 126-127 [Azores]
	During	1981		Lindbergia 7: <113-125>
	Grolle	1983	144	J Bryol 12: 421 [checklist Europe]
	Düll	1983	620	Bryol Beitr 2: 68 [Europe & Macaronesia]
	Frahm & Frey	1983	178	Moosflora, UTB 1250, Stuttgart: 146-147, fig 35 (6) [key to Germany)
	Eggers	1984	22	Crypt Bryol Lichen 3 (4): 288-289 [Macaronesia]
	Reinosa & Alvarez	1984	1325	Acta Cient Compostelana 21: 275 [Spain]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-196, microfiche 60 fig 4155 ["Wales, Barmouth, Pearson (auch Azoren)"]
	Schuster	1985	441	Phytologia 57 (5): 370 [sect Frullania, ssect Microphyllae - type species for nov ssect]
	Malme	1988	625	Sommerfeltia 7: <1-54>
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 257 [key to Europe & Macaronesia] & 260
	Sim-Sim	1989	6	Portug Acta Biol (B) 15: 363 [Portugal]
	Smith	1990	177	Liverwort Britain & Ireland: 251[key], 255, fig 112
	Boecker, Fischer & Lobin	1993	428	Nova Hedwigia 57 (1-2): 225-226 [epiphyllous]
	Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): 5 [Canary Isl]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 114 [key to european species]
	Long, D. D. & Ratcliffe, D. A.	1996	272	J Bryol 19: 97 & 106
	Sim-Sim	1997	688	Portug Acta Biol (B) 17: 52, fig 5 [Madeira]
	Casas	1998	768	Orsis 13: 20 [checklist Spain]
	Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
	Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
	Ros, Cano & Guerra	1999	1013	http://www.um.es/dp-biologia-vegetal/lab-briologia/Check-list.PDF:40 [checklist of Northern Africa]
	Ros, Cano & Guerra	1999	759	J Bryol 21: 235 [Morocco, Tunesia; checklist of Northern Africa]
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 111-114, fig 15(a-l), 16 [Portugal, Madeira]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 105 [as Fr. microfrullania] [Macaronesia; commonly epiphyllous]
	Paton	1999	828	Liverwort flora British Isles: 471, fig 233
	NN	2000	1928	Census list of Irish liverworts [Ireland]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia] & 124 [not in Madeira & Canary Isl]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Infante	2000	1035	Guineana 6: 216 [map, País Vasco] & 324-325
	Dierssen	2001	779	Bryophyt Bibl 56: 216 [ecology in European bryophytes]

Frahm	2001	1009	Bryologische Rundbriefe 49: 1-2 [Vosges] [http://www.bryologische-arbeitsgemeinschaft.de]
Frahm	2001	1353	Limprichtia 19: 24, map [Vosges]
Grims	2001	1136	Moosherbar in hb LINZ [Internet]
Izquierdo Zamora	2001	2885	Lista especies silvestres Canarias, banco datos bidiversidad: 89 [Canarias P G T F L]
Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
Albertos et al.	2003	1319	Bol Soc Esp Briol 22/23: 34 [Spain]
Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 165 [annotated checklist of Portugal]
NN	2003	1264	http://www.mapmate.co.uk/checklist/frullaniaceae.htm [checklist of UK]
Gonzalez-Mancebo, Losada-Lima & McAlister	2003	1097	Bryologist 106 (3): 386-390 [host specificity in a laurel forest on Tenerife]
Frahm	2003	1010	Bryologische Rundbriefe 66: 1-2 [Germany, Denntal in der Eifel]
Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
Gonzalez-Mancebo, Romaguera, Losada-Lima & Suarez	2004	1297	Acta Oecologica 25: 159-167 [Tenerife; as epiphyt on Laurus azorica]
Frahm	2005	1356	Trop Bryology 26: 74 [Azores]
Gabriel, Pereira et alii	2006	2238	AMCS Bulletin 19 / SMES Boletín 7: 262 [Portugal, Azores, Graciosa Isl]
Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 109 [Madeira, annotated catalogue]
Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Canary Isl., Spain, France, Morocco, Madeira, Portugal]
NN	2008	1929	Synoptic list of the Bryophytes of Ireland [Ireland]
Lima, Dirkse, Núñez & González Mancebo	2009	1262	Lista especies silvestres Canarias,108 [Canarias P G T F L]
Casus, Brugués, Cros, Sérgio, Infante	2009	1983	Handbook Liverw Iberien penins & Bal Isl., 146, fig 53(4-5) [Iberian Peninsula]
Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 72 [ecology]

microphylla fo. corticicola Schiffn. 1936 1385

Subgenus: Frullania Microphyllae

Typus: Ireland. Killarney -.8.1911, D.A. Jones & J.B. Duncan sn

in hb GZU (SW-Irland: Bei Killarney; an Arbutus-Bäumen. Aug. 1911, leg. D. A. Jones et J. B. Duncan)
in hb EGER [as fo. "corticola", isotypus]

Basionym:

Distribution: Ireland

Schiffner	1936	2561	Krit Bemerk europ Leberm, ser 21: 4 [Hepat europ exsicc, nr. 1006 pp]
Schiffner	1936	437	Österr Bot Zeitschr 85 (2): 134. fig 3(52-56) [Ireland: Killarney]
Bonner	1965	655	Index Hepat 5: 365
Pocs	1976	2686	Fol. Hist. nat. Mus. Matr. 4: 19 [types in hb EGER]
Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 257 [key to Europe & Macaronesia]
Suanjak	2001	979	http://www.kfunigraz.ac.at/botanik/gzu-hepaticae-typen2.htm [in hb GUZ]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Isotype. S. W. Irland, bei Killarney. Aug. 1911. D. A. Jones et J. B. Duncan (NICH 225092).

microphylla var. deciduifolia Grolle 1970 1386

Subgenus: Frullania Microphyllae

Typus: Canary Isl. Teneriffe. "el bosque de Mercedes" 18.3.1958, S. Arnell

in hb UPS [holotypus],
in hb JE, S-PA [isotypus]

Basionym:

Distribution: England, Madeira [Portugal], Azores [Portugal], Canary Isl (GC Te)[Spain]

var nov	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 310-311 [key to europa & macaronesia]
	Sjögren	1978	1696	Mem Soc Brot 26: 126 [Azores]
	Eggers	1982	22	Crypt Bryol Lichen 3 (4): 288-289 [Macaronesia]
	Düll	1983	620	Bryol Beitr 2: 68 [Europe & Macaronesia]
	Grolle	1983	144	J Bryol 12: 421 [checklist Europe]
	Schwab, Schäfer-Verwimp & alii	1986	101	Bryol Beitr 6: 7 [Gomera]
	Malme	1988	625	Sommerfeltia 7: 16 [Fuerteventura, Lanzarote]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 257 [key to Europe & Macaronesia] & 260, fig 5
	Sim-Sim & Sergio	1991	1194	IX Simposio Nacional Bot Cript, Salamanca: 252 [Madeira]
	Paton	1992	2206	J Bryol 17: 163-164 [new to British Isles]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 114 [key to european species]
	Paton	1999	828	Liverwort flora British Isles: 471-473, fig 233
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia] & 124 [only in Madeira & Canary Isl]
	Fontinha	2000	1258	Crypt Bryol 21(2): 116 [Madeira]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	NN	2003	1264	http://www.mapmate.co.uk/checklist/frullaniaceae.htm [checklist of UK]

microrhyncha L.Clark & Svihla 1950 1393

Subgenus: Trachycolea

Typus: Panama

Basionym:

Distribution: Panama, Ecuador, Chile (Chiloe Isl)

spec nov	Clark & Svihla	1950	333	Bryologist 53: 63-66, fig 1-17
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]

microscopica Pearson 1922 1394

Subgenus: Microfrullania Microfrullania

Typus: New Caledonia. Mt Mou, 3500ft 1914, Comton 616

Basionym:

Distribution: New Zealand, New Caledonia

spec nov	Pearson	1922	120	J Linn Soc Bot 46 (No 305): 33, pl 3 (20-34)
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Herzog	1953	835	Ark Bot, ser 2, 3 (3): 53-55, fig 6 [detailed description; New Caledonia]
	Schuster	1963	745	J Hatt Bot Lab 26: 243 [as Neohattoria microscopica; key to Neohattoria in New Caledonia]
	Bonner	1965	655	Index Hepat 5: 365-366
	Schuster	1970	761	J Hatt Bot Lab 33: 296-297, fig 4(1-4) [as Neohattoria microscopica]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 132
	Hattori	1986	506	J Hatt Bot Lab 60: 233 [= Schusterella microscopica (PEARSON) HATTORI et al 1972]
	Konrat, Braggins, Asakawa & Toyota	2006	1500	Bryologist 109(2): 151-154, fig 3a-e [detailed description and reassessment of Schusterella]
	Larrain et all	2018	5012	Bry. Div. Evo. 40 (2): 104-112, fig 1(c-d), 2i), [key to allied species, p.109]

mirabilis J.B.Jack & Steph. 1892 1398

Subgenus: Meteoriopsis Intumescentes

Typus: Peru. "Peruvia", Tambo de la Chonta, Mt. Rosa, 3000-4000m 1986, G. Wallis 106 in hb G 15421 (ex hb JACK)

Basionym:

Distribution: Costa Rica, Panama, Venezela, Colombia, Peru, Guyana

spec nov	Jack & Stephani	1892	1089	Hedwigia 31: 13, 15 [Peru, Neu-Granada]
	Stephani in Brown	1901	1284	Trans Linn Soc London, ser 2 (Bot) 4: 100 [Summit of Roraima, British Guiana]
	Stephani	1911	686	Spec Hepat 4: 597
	Clark & Svihla	1948	327	Bryologist 51: 189-191, fig 1-14
	Clark & Svihla	1950	337	Bryologist 53: 128, fig 1-16
	Herzog	1951	640	Rev Bryol Lichen 20: 129
	Herzog	1953	640	Rev Bryol Lichen 20: 129 [Costa Rica]
	Herzog	1955	107	Feddes Repert 57 (1/2): 171, fig 8
	Bonner	1965	655	Index Hepat 5: 369
	Reed & Robinson	1971	1406	Phytologia 21 (1): 19 [Costa Rica: Monteverde]
	Hattori	1973	124	J Jap Bot 48 (4): 104-109, fig 1-2
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
	Mägdefrau	1983	1206	Nova Hedwigia 13: 21 [as Fr pendulostyla, Venezuela]
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-29ab, microfiche 55 fig 3808 ["Wallis leg, Peru, Jack"] - 3809 - 3810 ["Peru (Lechler legit)"]
	Schuster	1985	441	Phytologia 57 (5): 370 [sect Mirabilis (of sgen Frullania) - type species for nov sect]
	Kron	1988	510	J Hatt Bot Lab 64: 355, fig 5(a-c) [key to ..]
	Gradstein & Florschütz-de	1989	1237	Trop Bryol 1: 42 [Venezuela, Mt Roraima] as# 1399
	Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
	Kappelle	1996	1409	Los Bosques de Roble, Cordillera de Talamanca, Costa Rica: 257
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Rico & Pocs	2004	1166	Crypt Bryol 25 (3): 259 [Venezuela, Roraima-tepui
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Uribe	2008	1513	Caldasia 30(1): 91, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]
	Churchill, Neill, Jaramillo & Quizhpe	2009	3810	Tropical Bryology 30: 94 [Ecuador, In full sun, on exposed soil bank. 1880 m]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 368 [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 22-23 [Ecuador]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):214 [Panama]
	Graham et al	2015	4766	Acta Biologica Plantarum Agriensis 4: 16 [Peru] – und andere Seiten
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Gradstein	2021	5642	Mem NY Bot Gard 121: 373 [key -Colombia]
	Gradstein & Perez	2021	6056	Candollea 76: 47 [Ecuador]

miradorensis Lindenb. & Gottsche 1847 [non Steph. 1911] 1402

Subgenus: Diastaloba

Typus: Mexico. Mirador sd, Liebman 116

Basionym:

Distribution: Mexico

Lindenberg & Gottsche in G., L. & N.	1847	2848	Syn Hepat: 781
Gottsche	1863	103	Separata of Mex. Leverm.: 247
Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 343-344 [Mexico]
Bonner	1965	655	Index Hepat 5: 369

mizoramensis Sushil K.Singh & Barbhuiya 2012 2448

Subgenus: Trachycolea

Typus: INDIA, Mizoram, Thaltlang to Sangau, Terrestrial 26.06.2008, S. K. Singh 119808

Type (ASSAM: Holotype).

Basionym:

Distribution: India (Mizoram)

spec nov	Singh & Barbhuiya	2012	3321	Taiwania, 57(2): 106-116, fig 1(1-19), 2(1-16)

mizutanii Kamim. & S.Hatt. 1973 1403

Subgenus: Trachycolea Australes

Typus: Malaysia. Sabah, Mt. Kinabalu, 1350-1400m 26.5.1963, M. Mizutani 3789

in hb NICH 253789 [holotypus]

Basionym:

Distribution: Malaysia (Sabah), Borneo

spec nov	Kamimura & Hattori	1973	543	J Hatt Bot Lab 37: 524-526, fig 5-7
	Hattori	1974	545	J Hatt Bot Lab 38: 198-199 [key to campanulata & allied species]
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 76-77 [Borneo, Kinabalu area, Hot Spring]
	Hattori	1976	80	J Hatt Bot Lab 40: 486
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. Borneo, N. Borneo, Mt. Kinabalu. On fallen branch. 26 May 1963. M. Mizutani 3789 (NICH 253789).

moniliata (Reinw., Blume & Nees) Mont. 1842 1412

Subgenus: Frullania

Basionym: Jungermannia moniliata Reinw., Blume & Nees 1824

Distribution: Russia (Far East), China (Heilongjiang, Xizang, Guizhou, Guangxi, Guangdong, Hubei, Shaanxi, Yunnan, Shandong, Hunan, Anhui, Jiangxi, Fujian, Zhejiang, Sichuan, Hainan, Hongkong), Taiwan, Korea (South), Japan, India (North: Assam, Meghalaya; South: Tamil Nadu (Nilgiri Hills)), Sri Lanka, Nepal, Thailand, Vietnam, Malaysia (Sabah), Borneo, Indonesia (Bali), Philippines

comb nov	Montagne	1842	469	Ann Sci Nat Bot, ser 2, 18: 13
	Nees in G., L. & N.	1845	2850	Syn Hepat: 440-441
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 538
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 84
	Mitten	1861	574	J Linn Soc Bot 5: 122 [Sikkim, S India: Nilgiri]
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 313 [Java, Sumatra]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 331-332
	Schiffner	1900	904	Hedwigia 39: 207 [Java]
	Yoshinaga	1906	927	Bot Mag Tokyo 20: 53 [Japan]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 28 [key to Japanese species, in Japanese]
	Stephani	1911	686	Spec Hepat 4: 546
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Verdoorn	1929	245	Ann Bryol 2: 140 [Java, Sumatra]
	Verdoorn	1929	245	Ann Bryol 2: 140
	Verdoorn	1930	293	Ann Bryol Suppl 1: 76
	Verdoorn	1930	293	Ann Bryol Suppl 1: 80 [syn sub Fr. moniliata ssp. obscura]
	Zwickel	1932	663	Beih Bot Centralbl 49: 637 [Ozellen]
	Horikawa	1934	34	J Sci Hiroshima Univ, ser B, div 2, 2: 235-236 [Taiwan]
	Chopra	1938	933	Proceed Indian Acad Sci, sect B, 7 (5): 249 [South India]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India] [moniliata NEES]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 148 [Japan, key to Japanese species]
	Horikawa	1951	1698	J Sci Hiroshima Univ, serB, div 2 (Bot) 6(1): 27 [sub Fr moniliata ssp obscura]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: SI]
	Hattori, Hong & Inoue	1962	876	J Hatt Bot Lab 25: 284 [Korea]
	Bonner	1965	655	Index Hepat 5: 370
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 528 [syn nov sub Fr tamarisci]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 193 [Assam]
	Tixier	1979	2408	Bryophyt Bibl 18: 62 [Cambodge]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 323 [Easter Nepal]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-148, microfiche 59 fig 4086 ["Java, Wichura leg"] - 4087
nom nov	Crandall-Stotler, Stotler & Geissler	1987	399	Bryologist 90 (4): 289 [nom nov pro Fr. moniliata ssp. obscura] - Study of the Subspecies of Frullania tamarisci
	Li, Liao & Huang	1988	1220	Chenia 5: 156 [China, Guangdong Prov.]
	Li, Liao & Huang	1988	1220	Chenia 5: 156 [China, Guangdong Prov.] as #1412
	Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 43-44 [annotated catalogue of China]
	Piippo	1990	521	J Hatt Bot Lab 68: 47 [annotated catalogue of China]
	Chao & Lin	1991	458	Yushania 8: 15 [Taiwan]
	Zhu et alii	1992		J Plant Resour Environ 1(3): <19-23> [aus 698] < Journal of Plant Resources and Environment) "Zhiwu-ziyuan-yu-huanqiu"> 植物资源与环境学报
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl] [as Fr. moniliata (R..)MONT.]
	Wang	1993	1223	Chenia 1: 130 [south China, Guangxi Prov.] as #1416
	Zhu et alii	1993		J East China Normal Univ (Nat Sci) 1993 (3): <95-105> [aus 698]
	Zhang et alii	1993		[aus 698]
	Zhu et alii	1994		Hikobia 11(4): <543-547> [aus 698]
	Zhu, Ye & Cai	1994	732	Bryologist 97 (3): 278 [epiphyllous, China]
	Lin & Wu	1994	1229	Chenia 2: 83 [China, Guizhou Prov.] as #1432
	Yi, Liu & Lang	1994	1227	Chenia 2: 109 [China, Shandong Prov] as #1412
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 41 [as "monoliata" syn sub Fr tamarisci]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan] as #1412
	So	1995	691	Mosses & Liverw Hong Kong 1: 117, fotos
	So	1995	691	Mosses & Liverw Hong Kong 1: 117, foto
	Zhu et alii	1995		J Xinjiang Univ (Nat Sci) 12(1): <87-90>[aus 698]

So & Zhu	1996	1180	Bot Bull Acad Sin 37(4): 278 [China]
So & Zhu	1996	295	Trop Bryol 12: 17 [Hong Kong]
Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [Sichuan] [as Fr. tamarisci]
Lin & Chen	1997	1130	Biol Bull 75: 109-114, fig 22(a-p) [Taiwan, key to species, in Taiwanese]
Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
Hong	1997	693	Lindbergia 22: 138 [Korea] [as Fr tamarisci ssp obscura VERD]
Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.] {as #1412}
Gambaryan	1998	1222	Chenia 5: 132 [Russia Far East] as #1419
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
Hasegawa	1998	880	Bull Fac Horticult Minaanikyushu Univ 28 (A): 29 [Kyushu] [as Fr. tamarisci ssp obscura]
Fang, Enroth, Koponen & Piippo	1998	704	Hikobia 12 (4): 347 [China: Jiangxi Prov]
Nath & Asthana	1998	708	J Hatt Bot Lab 85: 68-71, fig 4(1-13) as Fr. tamarisci [South India; key to all spec.]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Ji, Liu, Zhang, Chen & Luo	1999	1208	Chenia 6: 106 [epiphyllous; China, Jiangxi Prov]
Lin	2000	1524	Liverwort Flora Taiwan: 165, foto p 164, fig p 166(1-16) [Taiwan]
Bapna & Kachroo	2000	712	Hepaticology in India II: 195-196
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 434-437, fig 218(11-14) [China, Yunnan]
Peng, Enroth, Koponen & Piippo	2000	776	Hikobia 13: 196-197 [China: Hubei Prov]
Zhu & So	2001	808	Nova Hedwigia Beiheft 121: 75-77, fig 33(a-k), 4(c), 5(d) [Epiphyllous liverworts of China]
Cai	2002	1192	Chenia 7: 151 [China, Anhui Prov.]
Bai	2002	1189	Chenia 7: 23 [Yunnan, China]
Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, Fujian Prov.]
Zhang & Corlett	2003	1335	J Biogeography 30: 1329 [Hong Kong]
Zhu & So	2003	1083	Crypt Bryol 24 (4): 322 [Shangsi County, Guangxi] & 328 [Guangxi Prov, China]
Gao & Lai	2003	1441	Illustrations Bryophytes China: 1136-1139, fig 533(11-14) [China]
Li	2003	1505	Memoirs Hong Kong Nat Hist Soc 26: 83 [Hong Kong]
Zhang & Corlett	2003	1335	J Biogeography 30: 1329 [Hong Kong]
But	2004	147	Checklist of Hong Kong
NN	2005	1395	[in Russian] page 2 of 3
Zhu, Wang, Xu, Shi, Wang & Zheng	2006	2068	J Hatt Bot Lab 100: 605, 608 [antibacterial activity]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 247(11-14), 249(1-6) [key in Chinese]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
Haerida	2015	4229	Floribunda 5(2): 72 [Bali, with key]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 86-89, fig 41(a-g) [checklist & revision of genus Fullania, Thailand]
Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts] [annotation 107]

monocera var. subhampeana (E.A.Hodgs.) Hentschel & von Konrat 2015 1961

Subgenus: Trachycolea Acutilobae

Basionym: Frullania subhampeana E.A.Hodgs. 1949

Distribution: Australia (NSW, QLD), New Zealand

Hentschel et al.	2015	4097	Phytotaxa 220 (2): 136, Bas.: Frullania subhampeana E.A.Hodgs 220 (2): 136, 2015

monocera (Hook. f. & Taylor) Gottsche, Lindenb. & Nees 1845 1451

Subgenus: Trachycolea Acutilobae

Typus:

Type:—AUSTRALIA. Tasmania: Terra Van Diemen, misit Taylor 1847 (herb. Lehmannianum) (S-B143254!, lectotype here designated; FH!, isolectotype).

Basionym: Jungermannia monocera Hooker & Taylor 1845

Distribution: China (Zhejiang, Anhui, Yunnan, Fujian), Taiwan, Japan (Honshu, Shikoku), Bonin Isl, Korea, India (North: Assam), Sri Lanka, Vietnam, Indonesia (Sumatra, Java), Malaysia (Sabah), Borneo, Australia (QLD, NSW, VIC, ACT), Tasmania, New Zealand, Auckland Isl [New Zealand], Norfolk Isl, New Caledonia, Society Isl (Tahiti), Tuamotu Arch

Taylor in G., L. & N..	1845	2850	Syn Hepat: 418
Mitten in Hooker	1860	561	Antarctic voyage, III. Fl Tasmaniae 2: 237 [Tasmania]
Gottsche in Mueller	1880	1489	Frag Phyt Australia 11, suppl Hepaticae :65 [Tasmania]
Bastow	1888	845	Papers Proceed Roy Soc Tasmania for 1887: 263-264 [Tasmania]
Stephani	1910	686	Spec Hepat 4: 426
Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 135 [Tasmania]
Bonner	1965	655	Index Hepat 5: 372
Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
Hattori	1977	479	J Hatt Bot Lab 43: 426 [New Caledonia]
Hattori	1979	485	J Hatt Bot Lab 45: 347-349, fig 18(a-m) from isotype
Hattori	1979	486	J Hatt Bot Lab 46: 133-134
Hattori	1980	489	J Hatt Bot Lab 47: 103-104
Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 114 [Taiwan]
Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 256 [Japan]
Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 133
Hattori	1984	682	Crypt Bryol Lichen 5(1-2): 184 [Austalia, Queensland]
Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-215ab, microfiche 53 fig 3628 ["Queensland, ..., Hartmann"] - 3629 ["Nova Holl 488,Queensland"]
Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 172, fig 120 [NSW, QLD, TAS, VIC, New Zealand]
Hattori & Lin	1985	505	J Hatt Bot Lab 59: 139 [China]
Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 143 [Australia: NSW, QLD, VIC; Tasmania]
Hattori	1986	506	J Hatt Bot Lab 60: 216
Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 157 [Checklist Tasmania]
Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
Kuo & Chiang	1988	948	Taiwania 33: 12 [Index of Taiwan]
Hattori	1988	429	Nova Hedwigia Beih 90: 151 [Australia: QLD, NSW]
Ramsay, Downing & Shofield	1990	1143	Cunninghamia 2(2): 301[Australia, NSW, Mt Tomah Bot Garden]
Piippo	1990	521	J Hatt Bot Lab 68: 44 [annotated catalogue of China]
Chao & Lin	1991	458	Yushania 8: 13 [Taiwan]
Chao & Lin	1992	460	Yushania 9: 204, fig 12(a-h) [Taiwan]
Ramsay, Coveny, Brown & Brooks	1993	1142	Cunninghamia 3(1): 226 [Australia, Sydney]
Zhang et alii	1993		[aus 698]
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Lin & Chen	1997	1130	Biol Bull 75: 94, fig 11(a-d) [Taiwan, key to species, in Taiwanese]
Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 151 [Yunnan, China]
Jolley & Milne	1998	2423	Australasian bryol newsletter 39: 10 [Australia, Victoria, Grampians NP]
Bapna & Kachroo	2000	712	Hepaticology in India II: 173-174
Lin	2000	1524	Liverwort Flora Taiwan: 165-167, fig p 167(1-3) [Taiwan]
Bai	2001	1742	Guizhou Science 19(4): 41 [China, Yunnan]
Yuzawa	2001	1660	Natural Environmental Sci Res 14: 23-24, fig 19(a-n) [Japan, keys to species; in Japanese]
Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 282 [with key to Japan, in Japanese]
Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 17 [initial branching appendages]
Bai	2002	1189	Chenia 7: 14 [Yunnan, China]
Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, Fujian Prov.]

	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 442 [chemosystematic; bibenzl-type]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 246 [field guide, Tasmania, Victoria, Australian Capital Territory, New South Wales]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (QLD, NSW, VIC, ACT, TAS)]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 4th of 6 pages[Key to Frullania of New Zealand]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW ACT VIC TAS]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 232(10-15) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 136 [(S-B143254!, lectotype here designated; FH!, isolectotype).
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts] [annotation 108]

monocera var. undulata (Kamim.) Hentschel & von Konrat 2015 1962

Subgenus: Trachycolea Acutilobae

Basionym: Frullania undulata Kamim. 1961

Distribution: Japan

	Hentschel et von Konrat	2015	4097	Phytotaxa 220 (2): 136, Bas.: Frullania undulata Kamim.,

monocera var. acutiloba (Mitt.) Hentschel & von Konrat 2015 1960

Subgenus: Trachycolea Acutilobae

Basionym: Frullania acutiloba Mitt. 1861 [non Gerola 1947]

Distribution: Japan, China (Guangxi, Yunnan), Taiwan, India (North: Assam, Meghalaya (Khasi Hills); South: Tamil Nadu (Nilgiri Mts)), Sri Lanka, Thailand, Indonesia (Java)

	Hentschel & von Konrat	2015	4097	Phytotaxa 220 (2): 136, 2015 (Hentschel et al. 2015) Bas.: Frullania acutiloba Mitt.
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 57-58, fig 25(a-f) [checklist & revision of genus Fullania, Thailand]

monocera var. schiffneri (Verd.) S.Hatt. 1979 1461

Subgenus: Trachycolea Acutilobae

Basionym: Frullania acutiloba var. schiffneri Verd. 1929

Distribution: China, Taiwan, Indonesia (Java)

comb nov	Hattori	1979	486	J Hatt Bot Lab 46: 120 footnote
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]

monocera var. depauperata S.Hatt. 1984 1460

Subgenus: Trachycolea Acutilobae

Typus: New Caledonia. Mont Mou N of Paita 1982, N. Kitagawa 21402, 21534, 21519 in hb NICH [holotypus]

Basionym:

Distribution: China (Guangdong, Hainan), Taiwan, New Guinea, Australia (QLD), New Caledonia

var nov	Hattori	1984	503	J Hatt Bot Lab 57: 419
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 109 [New Guinea]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 139
	Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
	Hattori	1986	506	J Hatt Bot Lab 60: 216
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1988	429	Nova Hedwigia Beih 90: 151 [Australia: QLD]
	Kuo & Chiang	1988	948	Taiwania 33: 12-13 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 44 [annotated catalogue of China]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 44 [Australia (QLD)]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. New Caledonia, N of Paita, Mont Mou. 480 m. 21 July 1982. N. Kitagawa 21519 (NICH 387623).
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

monoica Steph. 1900 1463

Subgenus: Incertae sedis

Typus: Chile. Southern Chile, Cordilliera de la Costa, supra Angol, 900m (Prov. Malleco). 1896-1897, P. Dusen Chile, Cordillera de la Costa, supra Angol, Dusen 1896/97 (typus).

Basionym:

Distribution: Chile

spec nov	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26, III (6): 67-68 [Chile: in the coastal range west of Angol, Chile (Prov. Malleco)
	Bonner	1965	655	Index Hepat 5: 372
	Engel	1976	5919	Annales Botanici Fennici 13(3): 134 [Prov. Cautin] 3175: Fin-Fin, Fundo: El Rincon, 38° 48' S, 72° 40' W - 2860: Temuco: Nielol, Cerro, 338° 43' S, 72° 35' W, 120-150 m, 21. III.1970. alt. 50 m, 31. V. 1970 44
	Hässel de Menéndez & Rubies	2009	2273	Nova Hedwigia Beihefte 134: 142 [Chile]

montagnei Gottsche 1845 1464

Subgenus: Meteoriopsis Intumescentes

Typus: French Guiana. "Guiana gallica"

in hb NEES (sub "Fr. cordistipula var. foliis submucronatis"), typus in hb S (B24152)
in hb GLM 06024

Basionym:

Distribution: Mexico, Guatemala, Costa Rica, Venezuela, Ecuador, Colombia, French Guiana, Brazil

spec nov	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 456
	Montagne	1855	475	Ann Sci Nat Bot, ser 4, 3: 320
	Stephani	1911	686	Spec Hepat 4: 501-502
	Bonner	1965	655	Index Hepat 5: 372
	Stotler	1969	4761	Nova Hedwigia 18: 452-453, pl 17(149-159)
	Stotler	1970	194	The genus Frullania, separata: 452-453, pl 17(149-159)
	Griffin III	1979	988	Acta Amazonica 9 (3): 35 [Brazil, Manaus]
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 59-61, pl 7, map 3, [Brasil, Rio Grande do Sul]
	Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
	Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 73, microfiche 57 fig 3979 ["Cayenne (Leprieur leg)"]
	Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 209 [French Guiana]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 44 [Mexico]
	Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [French Guiana]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 28 [Rio de Janeiro, Brazil]
	Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 81 & 93 [Brazil]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89 [Brazil]
	Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 402, 416 [Podocarpus NP, Ecuador, epiphytic]
	Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 94 [Ecuador; Podocarpus NP]
	Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
	Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 284 [Rio de Janeiro State, Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 50 [Brazil]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 368 [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Gradstein & Perez	2021	6056	Candollea 76: 44-45 (new syn: Fr gualaquizana - Ecuador]
	Gradstein & Pócs	2021	5888	Nova Hedwigia 112(1-2): 59 [Venezuela]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 373-374 [key -Ecuador, Colombia]

montana Steph. 1910 1472

Subgenus: Trachycolea

Typus: Burma. 21.8.1884, Berthoumier
in hb G

Basionym:

Distribution: India (North: Assam, Meghalaya), Burma

spec nov	Stephani	1911	686	Spec Hepat 4: 455
	Verdoorn	1930	293	Ann Bryol Suppl 1: 51 [syn sub Fr. nepalensis]
	Bonner	1965	655	Index Hepat 5: 372-373
	Hattori	1973	542	J Hatt Bot Lab 37: 126-128, fig 71(a-k) [from type]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 186 [Assam)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-159, microfiche 52 fig 3554 [from type; "Birma (leg Berthoumier 1884)"]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 174, fig 164A(a-c)

moritziana var. (beta) mexicana Gottsche 1863 1474

Subgenus: Meteoriopsis Intumescentes

Typus: Mexico. Veracruz, Orizaba Fr. Müller
Gottsche Icon Hep ined [hb MÜLLER 2326 & 2324]

Basionym:

Distribution: Mexico

Gottsche	1863	103	Separata of Mex. Leverm.: 248
Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 344 [Mexico]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 45 [Mexico]

moritziana Lindenb. & Gottsche 1847 1473

Subgenus: Meteoriopsis Intumescentes

Typus: Colombia. Merida sd, Moritz 160

in hb G
in hb S (B24154- 24156) [typus]
in hb E E00002561 (Venezuela, sd, Moritz sn) [isotypus]
in hb GLM (hb GOTTSCHE) 06011

Basionym:

Distribution: Mexico, Costa Rica, Jamaica, Colombia, Peru, Brazil

	Lindenberg & Gottsche in G., L. & N.	1847	2848	Syn Hepat: 782
	Gottsche	1863	103	Separata of Mex. Leverm.: 248
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 344-345 [Mexico]
	Stephani	1911	686	Spec Hepat 4: 500-501
	Herzog	1925	1586	Arquivos de botânica do Estado de Sao Paulo 1 (2): 47 [Brazil]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 87 [Brazil]
	Stotler	1969	4761	Nova Hedwigia 18: 458-459, pl 22(191-199)
	Stotler	1970	194	The genus Frullania, separata: 458-459, pl 22(191-199)
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Yano	1984	501	J Hatt Bot Lab 56: 505 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 74, microfiche 57 fig 3980 ["Merida"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 44 [Mexico]
	Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
	Wolf	1993	5041	Ann. Missouri Bot. Gard. 80: 928 [Colombia]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]
	Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [dubious species]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 383 [Colombia]

morobensis S.Hatt. & Streimann 1985 1475

Subgenus: Trachycolea Irregulares

Typus: New Guinea. Morobe Prov, Herzog Mts, 15 km WSW of Lae, 760 m [in crown of large trees] ?, HS & TU 10985

in hb NICH [holotypus], in hb CBG [isotypus]

Basionym:

Distribution: Papua New Guinea

spec nov	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 109-111, fig 5 [subgen. Trachycolea, however, not in sect. Irregulares]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. Papua New Guinea, Morobe Prov., Mts. Herzog, 750 m. 13 Jan. 1981. H. Streimann and T. Umba 10985 (NICH 394183).
	Schäfer-Verwimp & Winter	2023	6430	Frahmia 39: 12 [is known only in sterile condition, questionable n sect. Irregulares]

motoyana Steph. 1911 1476

Subgenus: Diastaloba Diastaloba I

Typus: Japan. Tosa, Motoyana 3.4.1906, Y. Uematsu 52

in hb G

Basionym:

Distribution: China (Hainan, Yunnan, Guangxi, Guangdong, Fujian, Hong Kong), Taiwan, Japan, Vietnam

spec nov	Stephani	1911	686	Spec Hepat 4: 646
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 149 [Japan, key to Japanese species]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 149 [Japan, key to Japanese species]
	Horikawa	1950	959	Hikobia 1: 81-82 [Japan, Formosa]
	Horikawa	1951		Hikobia 1 (2): 56
	Hattori	1951	528	J Hatt Bot Lab 5: 65-66, fig 42(a-l)
	Hattori	1952	529	J Hatt Bot Lab 8: 30
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 127-128
	Kamimura	1961	199	J Hatt Bot Lab 24: 75, fig 27(18-34), map 8
	Inoue	1961	964	J Jap Bot 36(5): 187 [Formosa]
	Bonner	1965	655	Index Hepat 5: 373
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 128 [Central Japan]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 39 [Formosa]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 158
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 159 [China; synonyms]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-72, microfiche 49 fig 3316 [from type; "Japan Tosa,(Uematsu legit)"]
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 44 [annotated catalogue of China]
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
	Wang	1993	1223	Chenia 1: 130 [south China, Guangxi Prov.]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Lin & Chen	1997	1130	Biol Bull 75: 94, fig 12(a-o) [Taiwan, key to species, in Taiwanese]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Lin	2000	1524	Liverwort Flora Taiwan: 167-168, fig p 168(1-14) [Taiwan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 129-131, fig. 58(1-3)
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 6-10, fig 6/a-q) [Japan, keys to species; in Japanese]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 433 [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 50 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 23 [Yunnan, China]
	Li	2003	1505	Memoirs Hong Kong Nat Hist Soc 26: 83 [Hong Kong]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	But	2004	147	Checklist of Hong Kong
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

mucronata var. submutica Lehm. & Lindenb. 1845 1485

Subgenus: Frullania

Typus: Peru. "in china de Locha"

hb HAMPE

Basionym:

Distribution: Peru

Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 462
Bonner	1965	655	Index Hepat 5: 374
Menzel	1984	142	Willdenowia 14: 490 [Peru]

multilacera ssp. gracilior S.Hatt. 1987 1489

Subgenus: Diastaloba Diastaloba I

Typus: Australia. Queensland 5.7.1984, H. Streimann 31004

in hb NICH [holotypus], in hb CBG & JE [isotypus]

Basionym:

Distribution: Australia (QLD)

spec nov	Hattori	1987	402	Mem NY Bot Gard 45: 547-549, fig 3
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 45 [Australia (QLD)]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. Australia, Queensland, Helenvale-Rossville Road. 130 m. 5 July 1984. H. Streimann 31004 (NICH 40304).

multilacera var. lacerissima S.Hatt. 1975 1488

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. West Irian. Jayawijaya, Star Mts, Mt Antares, 1500m 1959, van Zanten 486A

in hb L (HLB 972.228-236) [holotypus], in hb NICH [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

var nov	Hattori	1975	547	J Hatt Bot Lab 39: 294-295
	Hattori	1982	495	J Hatt Bot Lab 51: 221
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. New Guinea, Star Mts., Mt. Antares. 1500 m. 11 July 1959. B. 0. van Zanten 486a (NICH 432022). Other three isotypes: NICH 328316, 328501,432023.

multilacera Steph. 1911 1487

Subgenus: Diastaloba Diastaloba I

Typus: Solomon Isl. sd, Micholitz

in hb G 14551 [holotypus]

Basionym:

Distribution: Indonesia (Ceram), New Guinea [Papua New Guinea], Solomon Isl, ?New Caledonia

spec nov	Stephani	1911	686	Spec Hepat 4: 650
	Verdoorn	1930	293	Ann Bryol Suppl 1: 116
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 170-171
	Bonner	1965	655	Index Hepat 5: 374
	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 154-156, fig 166 [from type]
	Hattori	1977	479	J Hatt Bot Lab 43: 423-424 [New Caledonia]
	Hattori	1982	495	J Hatt Bot Lab 51: 221
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 133
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia]
	Hattori	1984	503	J Hatt Bot Lab 57: 419
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-73, microfiche 49 fig 3317 [from type; "Solomons Inseln, Micholitz"]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 111 [New Guinea]
	Hattori	1986	506	J Hatt Bot Lab 60: 230 [New Caledonia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 31
	Hattori	1986	507	J Hatt Bot Lab 60: 245-346 [Seram]
	Hattori	1987	402	Mem NY Bot Gard 45: 549-550 [key to Fr. multilacera complex]
	Hattori	1988	516	J Hatt Bot Lab 65: 437 [PNG]
	Koike	1994	37	J Hatt Bot Lab 75: 186 [Micronesia]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html

multilaceroides S.Hatt. 1987 1490

Subgenus: Diastaloba Diastaloba I

Typus: Australia. Queensland. Innisfail, Palmerston NP, opposite ranger's residence 5.9.1985, G.A.M. Scott

in hb NICH 402274 [holotypus],
in hb MUCV 7041 [isotypus]

Basionym:

Distribution: Australia (QLD)

spec nov	Hattori	1987	402	Mem NY Bot Gard 45: 549-550, fig 4
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 45 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 28 [only type collection, potentially vulnerable, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30: Holotype. Australia, Palmerston Nat. Park. 5 Sept. 1985. G. A. M. Scott (NICH 402274).

multituberculata var. Hentschel & von Konrat 2015 1977

Subgenus: Trachycolea

Typus:

Type:—PHILIPPINES. Luzon: Rizal Prov., Tanay, 1977, Alvarez, Saprid & Guerrero 0-771187 (CAHUP, holotype; FH, H, NICH, isotypes).

Basionym: Frullania kalimantanensis Piippo & S.Hatt. 1992 [hom illeg] [non S.Hatt. 1986]

Distribution:

nom nov	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 136 [nom. nov. pro F. kalimantanensis Piippo et S.Hatt.,nom. illeg. (ICN Art. 53.1; hom. illeg. [non S.Hatt. 1986])

muscicola Steph. 1894 1491

Subgenus: Trachycolea Trachycolea

Typus: China. Yuennan, in monte Ma-eul-chan sd, Delavay

ex hb BESCHERELLE, hb STEPHANI 2, in hb G-15906 [holotypus], in hb PC, BM [isotypus]

Basionym:

Distribution: Mongolia, Russia (Altai, Far East), Sakhalin, China (Hubei, Sichuan, Heilongjiang, Jilin, Shandong, Anhui, Jiangsu, Shanxi, Xizang, Guizhou, Hunan, Guangxi, Guangdong, Fujian, Yunnan, Hunan, Hainan, Zhejiang, Hongkong), Taiwan, Korea (N,S), Japan, Ryukyu (Amami, Okinawa, Okierabujima),Pakistan, India (South India; Central: Madhya Pradesh; North: Kashmir, Uttaranchal (Mussoorie), Assam, Meghalaya), Nepal,Thailand, Vietnam

	Stephani	1894	211	Mem Soc Nat Sci, Nat Math Cherbourg 29: 213 [China; spec nov] [published July 1894]
spec nov	Stephani	1894	228	Hedwigia 33: 146 [published 20 June 1894]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 14 [key to Japanese species, in Japanese]
	Stephani	1910	686	Spec Hepat 4: 444
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 488 [Himalaya]
	Kashyap	1932	226	Liverworts of the western Himalayas, Part 2: 14, pl 1(10-12)
	Chopra	1938	1648	Proceed Indian Acad Sci, sect B, 8: 437 [Sikkim Himalayas and Bengal]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 149 [Japan, key to Japanese species]
	Hattori	1951	528	J Hatt Bot Lab 5: 66
	Hattori	1952	529	J Hatt Bot Lab 8: 30
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 128
	Kamimura	1961	199	J Hatt Bot Lab 24: 21-31, fig 6(1-47) 7(1-15) 8(1-35) 9(1-31) 10(1-43), map 2
	Inoue	1961	964	J Jap Bot 36(5): 187 [Formosa]
	Hattori, Hong & Inoue	1962	876	J Hatt Bot Lab 25: 285 [Korea]
	Kitagawa	1963	626	Acta Phytotax Geobot 19: 150 [Sakhalin]
	Bonner	1965	655	Index Hepat 5: 375
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 526
	Hong	1966	1107	Bryologist 69 (1): 412 [South Korea]
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 204 [Ryukyu Arch.]
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 37 [Ryukyu: Okinawa]
	Shin	1970	150	Sci Rep Kagoshima Univ 19: 25 [Ryukyu: Amami Isl]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 128-130 [Central Japan]
	Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 330, pl 44 [710]
	Hattori	1974	545	J Hatt Bot Lab 38: 203-207, fig 96-97
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Mitzutani	1974	407	Misc Bryol Lichen 6 (10): 187-188, figs(1-7)
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 234 [Nepal]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 451 [Thailand]
	Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 130
	Hattori	1978	482	J Hatt Bot Lab 44: 540 [key to Fr. muscicola & Fr. sinensis]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 186 [Mussoorie]
	Hattori in Mizutani	1979	488	J Hatt Bot Lab 46: 391 [Central Nepal]
	Srivastava	1979	24	Nova Hedwigia Beih 63: 335 [India, Kashmir]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 732 [syn sub Fr brittoniae ssp truncatifolia; South Korea]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 256 [Japan]
	Hattori	1981	491	J Hatt Bot Lab 49: 162-165 [key to Japanese Fr. dilatata-complex]
	Gao & Chang	1981	1021	Fl Hep Chinae bor-orient: 153, fig 66(1-9) [China]
	Inoue	1981	963	Mem Natn Sci Mus Tokyo 14: 65 [Japan, Mt. Fuji]
	Lin, Yang & Lu	1982	967	Trop Subtrop Forest Ecosys 1: 67 [China, Guangdong]
	Hattori	1982	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 99 [China]
	Wu in Li, Gao, Wu et al.	1985	1169	Bryoflora Xizang (Tibet), Science Press, Beijing: 523, fig 227(6-12)
	Liu	1985	2801	Invest Stud Nat 5: <133-155> [aus 698]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 139-141, fig 3 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-160, microfiche 52 fig 3555 [missing] - 3556 ["ex planta japonica, Faurie 1059"]
	Aur & Zhang	1985	1022	Fl Heilongjiangensis 1: 162-163, fig 56(1-9) [China]
	Li, Liao & Huang	1988	1220	Chenia 5: 157 [China, Guangdong Prov.]
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]

Xu	1989	2524	Cryptogamic flora of the Yangtze Delta and adjacent regions <1-490>
Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 263 [may be conspecific: Fr. cesatiana, Fr. riparia & Fr. muscicola]
Sim-Sim	1989	6	Portug Acta Biol (B) 15: 363 [Portugal]
Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
Ischiyama & Iwatsuki	1991	267	Hikobia 11: 67-70 [Japan: Hiroshima]
Sim-Sim & Sergio	1991	1194	IX Simposio Nacional Bot Cript, Salamanca: 252 [as Fr. cesatiana var muscicola; Madeira] 119401991Sim-Sim & SergioIX Simposio Nacional Bot Cript, Salamanca: 252 [Madeira]
Chao & Lin	1991	458	Yushania 8: 13 [Taiwan]
Zhu & Hu	1991	5962	J East China Normal Univ (Nat Sci) 1991 (3): <98-103> [aus 698] = Journal of East China Normal University (Natural Science)
Ischiyama & Iwatsuki	1991	267	Hikobia 11: 67, 68, 70 [Japan, Hiroshima]
Zhu et alii	1992	5963	J Plant Resour Environ 1(3): <19-23> [aus 698]
Schuster	1992	603	Hepat N America 5: 184 [difference to Fr. riparia & Fr. brittoniae]
Chao & Lin	1992	460	Yushania 9: 204, fig 13(a-m) [Taiwan]
Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
Chao, Lin & Chan	1992	459	Yushania 9: 16, fig 3(a-g) [Taiwan, abies forest]
Zaho, Fan, Wie & Lu	1993	1224	Chenia 1: 120 [China, Shandong Prov]
Zhang et alii	1993	2525	Checklist of plants of five provinces and one city in East China <1-490>
Wang	1993	1223	Chenia 1: 130 [south China, Guangxi Prov.]
Kraut, Mues & Sim-Sim	1993	1247	Phytochemistry 34(1): 21-218 [chemical constituents]
Yi, Liu & Lang	1994	1227	Chenia 2: 109 [China, Shandong Prov]
Zhu et alii	1994		Hikobia 11(4): <543-547> [aus 698]
Zhu, Ye & Cai	1994	732	Bryologist 97 (3): 278 [epiphyllous, China]
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
Wang, Yi & Lang	1994	1228	Chenia 2: 96 [China, Shanxi]
Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 194 [Nepal]
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Western Himalaya, Eastern Himalaya,Central India, Nepal] - new record from Central India (Lal & Parihar 1979))
Vana & Ignatov	1995	648	Arctoa 5: 5 [Altai mountains]
Kim, Ri, Hoang, Huneck & Grolle	1995	2056	Feddes Repert 106: 293 [DPR of Korea]
Wang & Hu	1995		[aus 698]
Zhu & So	1996	692	Mosses & Liverw Hong Kong 2: 75, foto, fig(a-e)
So & Zhu	1996	295	Trop Bryol 12: 17 [Hong Kong]
Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
Lin & Chen	1997	1130	Biol Bull 75: 94-95, fig 13(a-d) [Taiwan, key to species, in Taiwanese]
Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [Sichuan]
Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
Hong	1997	693	Lindbergia 22: 138 [Korea]
Hong	1997	693	Lindbergia 22: 138 [Korea]
Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
Yamada & Choe	1997	717	J Hatt Bot Lab 81: 288 [Korean Peninsula]
Li	1997	1232	Chenia 3-4: 64-65 [China, Fujian Prov.]
Sha, Yang & Teng	1998	1221	Chenia 5: 97-101 [karyolocial study, China]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 151-152 [Yunnan, China]
Gambaryan	1998	1222	Chenia 5: 132 [Russia Far East]
Nath & Asthana	1998	683	J Bryol 20(1): 233 [South India]
Nath & Asthana	1998	708	J Hatt Bot Lab 85: 75-77, fig 7(1-15) [South India; key to all spec.]
Fang, Enroth, Koponen & Piippo	1998	704	Hikobia 12 (4): 347 [China: Jiangxi Prov]
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
Sim-Sim, Lloret & Grolle	1999	726	Nova Hedwigia 68: 220 [characters of Fr. muscicola, riparia, cesatiana, azorica]
Bai & Wang	1999	1207	Chenia 6: 110 [China, Beijing]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 120-122, fig. 54(1-3)
Söderström	2000	765	Lindbergia 25: 43 [China]
Lin	2000	1524	Liverwort Flora Taiwan: 167-168, fig p 169(1-3) [Taiwan]

Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 384-386, fig 192(1-6)) [China, Yunnan]
Peng, Enroth, Koponen & Piippo	2000	776	Hikobia 13: 197 [China: Hubei Prov]
Bapna & Kachroo	2000	712	Hepaticology in India II: 175, fig 164B(a-d)
Narayan, Karunakaran & Singh	2001	1323	Indian J Forestry 24(2): 275, pl 8(1-10) [India, Himachal Pradesh]
Yuzawa	2001	1660	Natural Environmental Sci Res 14: 24-26, fig 20(a-m) [Japan, keys to species; in Japanese]
Bai	2001	1742	Guizhou Science 19(4): 41 [China, Yunnan]
Zhu & So	2001	808	Nova Hedwigia Beih 121: 81-82, fig 3(g) & 36(a-h] [China; epiphyllous]
Negi & Gadgil	2001	1370	Perspectives Indian Bryology: 23-33 [terricolous; Garhwal Himalayas]
Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281-282, fig 102, pl 164(2-3) [with key to Japan, in Japanese]
Zhu & So	2001	808	Nova Hedwigia Beiheft 121: 81-82, fig 36(a-h), 3(g) [Epiphyllous liverworts of China]
Negi, Nath & Asthana	2001	1373	Perspectives Indian Bryology: 296 [India; terricolous in Garhwal Himalayas]
Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, Fujian Prov.]
Srivastava & Alam	2002	1251	J Bombay Nat Hist Soc 99(2): 237 [Nilgiri, key to South Indian species]
Cai	2002	1192	Chenia 7: 151 [China, Anhui Prov.]
Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 266-268, pl 53(13-29), map 11 - Unpublished thesis.
Kattel	2002	1032	Liverworts of Nepal, Katmandu: 17 [Nepal, 1050-4000 m]
Li & Zhao	2002	1190	Chenia 7: 117 [China, Hubei]
Bai	2002	1189	Chenia 7: 14 [Yunnan, China]
Zhu & So	2003	1083	Crypt Bryol 24 (4): 322 [Shangsi County, Guangxi] & 328 [Guangxi Prov, China]
Gao & Lai	2003	1441	Illustrations Bryophytes China: 1093, fig 508(1-6) [China]
Zhu & Lai	2003	1403	Crypt Bryol 24(3): 268 [Vietnam: Ba Vi NP]
Li	2003	1505	Memoirs Hong Kong Nat Hist Soc 26: 83 [Hong Kong]
Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
But	2004	147	Checklist of Hong Kong
Kawasumi	2005	1378	Bull Kanagawa Prefectural Mus, natural science 26: 26 [Japan]
Nair et al.	2005	3031	Bryophytes of Wayanad in Western Ghats: 63, fig 9(g-q) [India, Western Ghats]
NN	2005	1395	[in Russian] page 2 of 3
Sasaki	2005	1379	Bull Kanagawa Prefectural Mus, natural science 26: 37 [Japan]
Kornochalert	2006	2327	Thesis: Thailand, Doi Suthep-Pui National Park, Chiang Mai Province: 115-116, fig 34(1-13) & 67 (foto)
Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
Furuki	2006	1503	Hikobia 14: 407 [Izu Isls., Northern Izu-Mariana Arc]
Song & Yamada	2006	1445	J H B L 100: 446 [from Jeju (Cheju) Isl, Korea]
Nath, Asthana & Kapoor	2007	1460	Taiwania 52(2): [with Hypnum aduncoides; Madhya Pradesh, India]
Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 70-71, fig 1[map], 7(13-29) [India, Meghalaya, Eastern Himalayas]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 30-31: lsotype. China, Yunnan. S.d. Delavay (NICH 354621). Another isotype: NICH 354496.
Zhang	2009	2713	Checklist of Macao Bryophytes: 22-23 [Macao]
Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: SIB, FAR EAST]
Zhang	2010	2276	Bryophyte flora of Macao: 62-65, 6 fotos, fig (a-e) [Macao]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 233(1-6) [key in Chinese]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 66-68, fig 30(a-f) [checklist & revision of genus Fullania, Thailand]
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts] [annotation 109]
Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 408-410, fig 149(a-o) [India (Western Ghats, keys]

mutilata Steph. 1911 1500

Subgenus: Trachycolea

Typus: Peru.

ex hb Sande Lacoste, in hb G

Basionym:

Distribution: Peru

spec nov	Stephani	1911	686	Spec Hepat 4: 673-674
	Bonner	1965	655	Index Hepat 5: 375
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 74, microfiche 47 fig 3176 [from type; "Peruvia Heb Sande Lacoste"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 286 [belong to subgen. Trachycolea]

nadeaudii Steph. 1911 1504

Subgenus: Trachycolea

Typus: Tahiti. sd, Nadeaud

ex hb BESCHERELLE, in hb G 20587

Basionym:

Distribution: Society Isl (Tahiti)

spec nov	Stephani	1911	686	Spec Hepat 4: 465-466
	Pearson	1922	120	J Linn Soc Bot 46 (No 305): 31-32 [as Fr. bescherellei]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 162 [conspecific with Fr. curvirostris]
	Bonner	1965	655	Index Hepat 5: 376
	Hattori	1981	492	J Hatt Bot Lab 49: 376-378, fig 11 [a valid species]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 133
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-161, microfiche 52 fig 3557 [from type; "Tahiti (Nadeaud leg)"]
	Schuster	1992	603	Hepat N America 5: 125

neomexicana J.J.Atwood, Vilnet & Mamontov 2020 2506

Subgenus: Frullaniopsis

Typus: USA, New Mexico, Dona Ana County, Organ Mts., upper Rock Spring Canyon, 6800-7000 ft, 4 May 1996, Worthington 25478

Holotype COLO, isotype MHA

Basionym:

Distribution:

spec nov	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 235- 238, fig 11(a-k), fig12(a-g)

neosheana S.Hatt. 1979 1516

Subgenus: Diastaloba Diastaloba I

Typus: Australia. Queensland, Atherton Tablelands, the Crater NP, 1200m 25.6.1975, Garry Shea 6936

in hb NICH, in hb G. SHEA [isotypus]

Basionym:

Distribution: Borneo (Indonesia), Australia (QLD)

	Hattori	1979	485	J Hatt Bot Lab 45: 350-352, fig 20(a-k) from type
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 143 [Australia: QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 45 [Australia (QLD)]
	Haerida, Yamaguchi, Windadri, Shimizu & Simboion	2004	1351	Hikobia 14: 185-186 [new to Borneo]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Asiatic, lowland]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 31: Holotype. Australia, Queensland, Atherton Tablelands, The Crater National Park. 1200 m. 25 June 1975. Garry Shea 6936 (NICH 344507).

nepalensis (Spreng.) Lehm. & Lindenb. 1845 1096

Subgenus: Trachycolea

Typus:

Type:—NEPAL. s. loc. spec., s. n. & s. d., ex hb. Kunze (S-B28164, lectotype here designated).

Basionym: Jungermannia nepalensis Spreng. 1827

Distribution: China (Anhui, Shaanxi, Sichuan, Xizang, Guizhou, Guangxi, Guangdong, Fujin, Yunnan, Hunan, Zhejiang, Shandong), Taiwan, Korea, Japan, Himalayas, Nepal, Sikkim, India (North: Uttaranchal, West Bengal (Darjeeling), Assam, Meghalaya), Bhutan, Thailand, Vietnam, North Vietnam, Indonesia (Sumatra, Java, Sulawesi), Malaysia (Pahang), Philippines, New Guinea

Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 422
Mitten	1861	574	J Linn Soc Bot 5: 121 [Sikkim, Assam]
Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 312 [Java, Sumatra]
Sande Lacoste ? Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 332
Schiffner	1899	1906	Österr Bot Zeitschr 49 (6): 206
Levier	1906	824	Nuovo Giorn Bot Ital NS 13: 349
Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183 [key to Japanese species, in Japanese]
Stephani	1911	686	Spec Hepat 4: 452-453
Hosseus	1911	2430	Beih Bot Centralblatt 28: 361 [Siam, bestimmt von GOTTSCHE]
Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
Verdoorn	1929	245	Ann Bryol 2: 128 [Java, Sumatra]
Verdoorn	1930	293	Ann Bryol Suppl 1: 50-52, fig 59-64
Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 41 [China]
Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 32-33; Celebes, Penins. malacc] & 136
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 55-56 [Sumatra, Malay Peninsula, Java]
Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 489 [Java]
Verdoorn	1932	232	Ann Bryol 5: 125 [Hepat select crit, ser 3 & 4 no 160-161; Java-China]
Verdoorn	1934	241	Ann Bryol Suppl 4: 203 [Siam] & 214, fig 16 [map]
Verdoorn	1937	556	Blumea suppl 1: 211 [Lan Tau Insel]
Chopra	1938	1648	Proceed Indian Acad Sci, sect B, 8: 437 [Sikkim Himalayas and Bengal]
Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
Hattori	1944	943	Bull Tokyo Sci Mus 11: 149 [Japan, key to Japanese species]
Hattori	1951	528	J Hatt Bot Lab 5: 66
Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 128
Hattori	1952	529	J Hatt Bot Lab 8: 30
Kamimura	1961	199	J Hatt Bot Lab 24: 55, fig 20(1-13), map 6
Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: EH]
Nakanishi	1963	960	Hikobia 3(4): 322, 324 [Taiwan]
Hattori in Hara	1966	841	Flora of Eastern Himalaya: 526 [close to, or conspecific with Fr grevilleana]
Grolle	1966	843	Khumbu Himal 4: 266 [Nepal]
Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 130-131, fig 63(a-j), 64(b) [Central Japan]
Hattori	1973	542	J Hatt Bot Lab 37: 131-137, fig 73-77
Hattori	1974	544	J Hatt Bot Lab 38: 178 [Luzon]
Hattori	1974	546	J Hatt Bot Lab 38: 244-245
Hattori	1975	547	J Hatt Bot Lab 39: 295 [Philippines]
Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 234 [Nepal]
Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 451 [Thailand]
Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 66 [Darjeeling]
Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 130 [India]
Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 186 [Assam, Darjeeling]
Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 322 [Easter Nepal]
Long	1979	50	Lindbergia 5: 60 [Bhutan]
Choe	1980	1171	Illust Fl & Fauna Korea 24: 734-735 [South Korea]
Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 39 [Formosa]
Hattori	1982	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 99
Hattori	1982	495	J Hatt Bot Lab 51: 250-251
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia]

Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-162ab, microfiche 52 fig 3558 [Himalaya, Determes, Renauld 215"] - 3559 ["Nepal 502"]
Wu in Li, Gao, Wu et al.	1985	1169	Bryoflora Xizang (Tibet), Science Press, Beijing: 523, fig 227(13-19)
Hattori & Lin	1985	505	J Hatt Bot Lab 59: 141 [China]
Liu	1985	2801	Invest Stud Nat 5: <133-155> [aus 698]
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 303 [Philippines]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 49, fig 4
Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
Hattori	1988	516	J Hatt Bot Lab 65: 437 [PNG]
Long & Grolle	1990	522	J Hatt Bot Lab 68: 413 [Bhutan; habitat & distribution]
Piippo	1990	521	J Hatt Bot Lab 68: 45 [annotated catalogue of China]
Chao & Lin	1991	458	Yushania 8: 13-14 [Taiwan]
Chao & Lin	1992	460	Yushania 9: 204-207, fig 14(a-e) [Taiwan]
Hashimoto, Asakawa, Nakashima & Tori	1993	1199	J Hatt Bot Lab 74: 125 [Chemical constituents]
Yi, Liu & Lang	1994	1227	Chenia 2: 109 [China, Shandong Prov]
Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 196 [Nepal]
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Western Himalaya, Eastern Himalaya]
Tian	1997	1231	Chenia 3-4: <101-114> [aus 698]
Hong	1997	693	Lindbergia 22: 138 [Korea]
Furuki & Higuchi	1997	1234	Bull Natn Sci Mis, Tokyo, ser B 23(3): 89, pl 8(1) [oil bodies & oil droplets]
Tian	1997	1231	Chenia 3-4: 105 [China, Zhejiang Prov.]
Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
Lin & Chen	1997	1130	Biol Bull 75: 95-98, fig 14(a-s) [Taiwan, key to species, in Taiwanese]
Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [Sichuan]
Yamada & Choe	1997	717	J Hatt Bot Lab 81: 288 [Korean Peninsula]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 152 [Yunnan, China]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 408-410, fig 204(1-8) [China, Yunnan]
Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 122, fig. 54(4-6)
Bapna & Kachroo	2000	712	Hepaticology in India II: 176
Lin	2000	1524	Liverwort Flora Taiwan: 169, fig p 170(1-18) [Taiwan]
Zhu & So	2001	808	Nova Hedwigia Beiheft 121: 79-81, fig 35(a-k) [China; epiphyllous][Epiphyllous liverworts of China]
Bai	2001	1742	Guizhou Science 19(4): 41 [China, Yunnan]
Yuzawa	2001	1660	Natural Environmental Sci Res 14: 26-28, fig 22(a-w) [Japan, keys to species; in Japanese]
Bai	2002	1189	Chenia 7: 14-16 [Yunnan, China]
Kattel	2002	1032	Liverworts of Nepal, Katmandu: 18 [Nepal, 1150-4000 m]
Nath & Saxena	2002	2572	WCB Lucknow: 57 [Bhutan]
Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 258-260, pl 51 (17-33), map 11 - Unpublished thesis.
Cai	2002	1192	Chenia 7: 151 [China, Anhui Prov.]
Gao & Lai	2003	1441	Illustrations Bryophytes China: 1115, fig 520(1-8) [China]
Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
Li	2003	1505	Memoirs Hong Kong Nat Hist Soc 26: 83-84 [Hong Kong]
Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
Song & Yamada	2006	1445	J H B L 100: 446 [from Jeju (Cheju) Isl, Korea]
Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Asiatic, montane]
Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 63-65, fig 1[map], 5(17-33) [India, Meghalaya, Eastern Himalayas]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 230(1-8) [key in Chinese]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Hentschel et alii	2015	4097	Phytotaxa 220 (2): 136 [lectotypification]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 41-43, fig 16(a-f) [checklist & revision of genus Fullania, Thailand]
Katagiri & Furuki	2018	4966	Hattoria 9: 66 [Checklist of Japanese liverworts and hornworts]

Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 29, photos [Sumatra, with key]

neurota Taylor 1846 201

Subgenus: Chonanthelia Chonanthelia

Typus: Nepal, "on Parmelia furfuracea" 1820, Wallich

in hb S (B24167) [typus]

Basionym:

Distribution: ?? Mexico, Brazil --- China (Xizang, Yunnan), Pakistan, India (North: West Bengal (Darjeeling), Assam, Meghalaya (Shillong); South: Tamil Nadu (Nilgiri Mts), Nepal, Sikkim, Bhutan, Sri Lanka, Vietnam, Thailand, Burma, Indonesia (Java), Vanuatu, Samoa, Fiji (Viti Levu), Society Isl (Tahiti), Cook Isl (?Rarotonga)

spec nov	Taylor	1846	292	London J Bot 5: 400-401
	Taylor in G., L. & N.	1847	2848	Syn Hepat: 774-775 (No 29b)
	Stephani	1911	686	Spec Hepat 4: 674
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Verdoorn	1930	293	Ann Bryol Suppl 1: 66-68, fig. 96-103(:63)
	Verdoorn	1932	232	Ann Bryol 5: 126 [Hepat select crit, ser 3 & 4 no 167; Java]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 57 [Java]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 204 [India] & 220, fig 29 [map]
	Verdoorn	1937	556	Blumea suppl 1: 212 [South India]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Miller	1953	349	Bryologist 56: 45
	Clark	1954	362	Bryologist 57: 29-31, fig. 1-10
	Svihla	1956	380	Bryologist 59: 277-280, fig. 1-9 [synonym list]
	Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: EH SI]
	Miller	1963	834	Ark Bot, ser 2, 5: 518 [Hawaii]
	Bonner	1965	655	Index Hepat 5:
	Grolle	1966	843	Khumbu Himal 4: 266 [Nepal]
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 526-527
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Hattori in Hara	1971	190	Univ Mus Univ Tokyo Bull 2: 237 [Bhutan]
	Hattori	1972	538	J Hatt Bot Lab 36: 135, fig. 19(a-h)
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 234 [Nepal]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 447 [Thailand]
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 66 [Darjeeling, Burma]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 186 [Assam, Darjeeling]
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 323 [Easter Nepal]
	Hattori	1979	129	J Jap Bot 54 (1): 24 [Sri Lanka]
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 89-91, pl 14, map 13, [Brasil, Rio Grande do Sul]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Yano	1984	501	J Hatt Bot Lab 56: 506 [checklist Brazil]
	Piippo	1990	521	J Hatt Bot Lab 68: 45 [annotated catalogue of China]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 208 [key to neurota & arsenii]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 220-222, fig. 21, map 3 a(:282)
	Nath & Astana	1991	899	Geophytology 21: 139-141 [Western Himalaya]
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 193 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya, Nepal, South India]
	Srivastava, Srivastava & Dixit	1994	900	Geophytology 24: 68, fig 36-50 [epiphytic in tea-plantations, Darjeeling]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Nath & Asthana	1998	683	J Bryol 20(1): 233 [South India]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 152 [Yunnan, China]
	Nath & Asthana	1998	708	J Hatt Bot Lab 85: 66, fig 1(14-26) [South India; key to all spec.]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 185-186, fig 170(a-d)
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 129, fig. 57(7-9)
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 425, fig 213(11-18) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 47 [China, Yunnan]
	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 246-249, pl 48 (23-38), map 11 - Unpublished thesis.
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 18 [Nepal, 1100-3000 m]
	Bai	2002	1189	Chenia 7: 20-21 [Yunnan, China]
	Srivastava & Alam	2002	1251	J Bombay Nat Hist Soc 99(2): 235 [Nilgiri, key to South Indian species]

Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
Gao & Lai	2003	1441	Illustrations Bryophytes China: 1129, fig 529(11-18) [China]
Srivastana & Alam	2003	1324	Geophytology 33: 47 [India]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89 [Brazil]
So & Wang	2006	1466	J H B L 100: 429 [excluded from Hawaii]
Staples & Imada	2006	1716	Trop bryol 28: 28 [Hawaii]
Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 56-57, fig 1[map], 2(23-38) [India, Meghalaya, Eastern Himalayas]
Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 242(11-18) [key in Chinese]
Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 50 [Brazil]
Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 16-17, fig 3(a-f) [checklist & revision of genus Fullania, Thailand]
Lima	2019	5121	Frullania no Brasil [Thesis]: 68-70, fig. 6 [distribution]
Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 410-413, fig 150(a-p) [India (Western Ghats, keys]
Judziewicz & Freire	2023	6443	Bishop Museum Occasional Papers 155: 161 [Hawaii., = Frullania sandvicensis, misidentification, (see So & Wang 2006: 428-429)]

nicholsonii E.A.Hodgs. 1949 1518

Subgenus: Trachycolea

Basionym: Frullania berggrenii Nicholson 1925 [non Steph. 1916] [hom illeg]

Distribution: New Zealand

nom nov	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 368
	Bonner	1965	655	Index Hepat 5: 378
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Allison & Child	1975	690	Liverw New Zealand: 209-210, fig(a-b)
	Hattori	1979	486	J Hatt Bot Lab 46: 136-137, fig 38(a-i) [nom nov for Fr. berggrenii]
	Schuster	1985	441	Phytologia 57 (5): 372 [sect Coniferae - type species for nov sect]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 4th of 6 pages[Key to Frullania of New Zealand]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	Engel, von Konrat, Glenny	2023	6397	Acta Biologica Plantarum Agriensis 11(1): 251, 1-4 [New Zealand, with key]

nigricaulis (Reinw., Blume et Nees) Nees 1845 1521

Subgenus: Trachycolea

Basionym: Jungermannia nigricaulis Reinw., Blume & Nees 1824

Distribution: Thailand, Malaysia (Pahang, Sabah), Borneo, Indonesia (Sumatra, Java, Sabah, Halmahera)

	Nees in G., L. & N.	1845	2850	Syn Hepat: 457
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 91
spec nov	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 314 [Java]
	Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 226
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 332-333
	Schiffner	1900	904	Hedwigia 39: 207 [Java]
	Stephani	1911	686	Spec Hepat 4: 610-611
	Verdoorn	1929	245	Ann Bryol 2: 149-150 [Java, Sumatra]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 153-155, fig 243, 263-266
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 94-96; Sumatra-Java] & 149-150, fig 6
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 63 [Java]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 499 [Sumatra, Java, Borneo]
	Hattori	1973	541	J Hatt Bot Lab 37: 90
	Hattori	1974	545	J Hatt Bot Lab 38: 194-196, fig 91(a-i)
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 112-113, fig 2
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 451 [Thailand]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-57, microfiche 56 fig 3854 ["Java, ..."]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Frullania] [Monography of subgenus Meteoriopsis]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 43-44, fig 17(a-f) [checklist & revision of genus Fullania, Thailand]

nigricaulis var. elongata Verd. 1930 1525

Subgenus: Trachycolea

Typus: Indonesia. Java, "Soekaboemi", 1400m 1900, Fleischer

Basionym:

Distribution: Indonesia (Java)

var nov	Verdoorn	1930	293	Ann Bryol Suppl 1: 155
	Bonner	1965	655	Index Hepat 5: 380

nisquallensis Sull. 1849 1526

Subgenus: Frullania

Typus: USA. Oregon, Fort Nisqually Wilkes Expedition - United States Exploring Expedition

in hb HBG [syntypus, vide Hässel de Menéndez, 1986]
in hb FH 258896 (hb SULLIVANT: Hepticae)
in hb FH 258897 (hb SULLIVANT: Hepticae)

Basionym:

Distribution: Alaska, Canada (YT BC), USA (WA OR CA), Russia (Siberia, Arctic)

spec nov	Sullivant	1849	248	Mem Amer Acad Arts Sci, ser 2, 4 (1): 175-176
	Stephani	1887	207	Engler's Bot Jahrb 8: 98
	Evans	1887	237	Trans Connet Acad Arts Sci 10 (1): 21-22, pl 10
	Pearson	1890	1153	List of Canadian Hepaticae: 3-4, pl 3(1-9)
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 47 [Canada]
	Stephani	1911	686	Spec Hepat 4: 562
	Sanborn	1929	3503	Univ Oregon publ Pl Biol 1(1): 88-89, pl 4(13) [Oregon]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 747-748, fig Frn(1-10)
	Schuster & Steere	1958		vide 633 [as Fr. tamarisci ssp nisquallensis]
	Steere	1965		vide 633 [as Fr. tamarisci ssp nisquallensis]
	Bonner	1965	655	Index Hepat 5: 380
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 528 [comb nov as Fr. tamarisci ssp nisquallensis]
	Mitchell, Schofield, Singh & Towers	1969	1285	Arch Derm 100: 46-49 [Contact dermatitis]
	Hattori	1973	403	Misc Bryol Lichen 6 (5): 72-73, fig a-f [Lena, Siberia]
	Abramova, Afonina & Duda	1974	1336	Nov Syst Plant non Vascul 11: 317 [UdSSR] [as Fr. tamarisci ssp nisquallensis]
	Murray	1974		vide 633 [as Fr. tamarisci ssp nisquallensis]
	Schljakov	1975	1337	Nov Syst Plant non Vascul 12: 322 [UdSSR]
	Steere	1976		vide 633 [as Fr. tamarisci ssp nisquallensis]
	Steere & Inoue	1978	633	J Hatt Bot Lab 44: 330-331, fig 21(1-11) [Alaska]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-198abc, microfiche 60 fig 4157 ["Alaska, Chilcoot, ..., leg Dr Kramer 12/89"] - 4158 -4159 ["Oregon, Rau 28 leg"]
	Hässel de Menéndez	1986	2510	Bryologist 89(4): 291 [syntype in hb HBG]
	Crandall-Stotler, Stotler & Geissler	1987	399	Bryologist 90 (4): 287-308 [a seperate species]
	Hong	1989	689	Bryologist 92 (3): 363-364 [key to N-American species]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Konstantinova & Vasiljev	1994	650	Arctoa 3: 130 [Siberia, Sayan Mt.]
	Jonsson	1996	654	Bryologist 99 (2): 233 [Oregon, USA]
	Feuerer	1997	630	http://www.rrz.uni-hamburg.de/biologie/ialb/herbar/hbg_b.htm [1.9.1997] printed 5.1.1998: page 17 of 39
	Rambo & Muir	1998	731	Bryologist 101: 120 [USA: Oregon]
	McCune, Rosentreter, Ponzetti & Shaw	2000	915	Bryologist 103 (3): 420 [epiphytic in old conifer forest, USA: Washington]
	Ruchty, Rosso & Mc Cune	2001	916	Bryologist 104 (2): 275 [epiphytic on Acer circinatum in a Pacific Nortwest forest, USA]
	Peck & Muir	2001	917	Bryologist 104 (2): 181-189 [harvestable epiphytic bryophytes, Western Oregon, USA]
	Schofield, Talbot & Talbot	2004	1129	J Hatt Bot Lab 95: 183 [Alaska, Simenof Isl]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: ARC, SIB, FAR EAST]

nivimontana S.Hatt. 1982 1529

Subgenus: Trachycolea

Typus: China. Yunnan, Dechen County, Yung Zhon Snow Mts, 3400m 6.7.1981, X.-L. Li 81-1683
in hb NICH [holotypus], in TNS [isotypus]

Basionym:

Distribution: China (Yunnan)

	Hattori	1982	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 95-97, fig 2
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 141
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 13
	Piippo	1990	521	J Hatt Bot Lab 68: 45 [annotated catalogue of China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 408, fig 203(7-13) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 41-43 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 16 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1112, fig 519(7-13) [China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 31: Holotype. China, Yunnan, Yun Zhon Snow Mountain. 3400 m. On trunk of Picea. 6 July 1981. X. J. Li 81-1683 (NICH 382634).
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 231(7-13) [key in Chinese]

nobilis var. cochleata (Steph.) S.Hatt. 1985 1531

Subgenus: Trachycolea

Basionym: Frullania cochleata Steph. 1911

Distribution: Indonesia (Irian Jaya, Ceram), Papua New Guinea

comb nov	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 111 [comb nov] [New Guinea]
	Hattori	1986	507	J Hatt Bot Lab 60: 246 [Seram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 49, fig 4 [comb nov]
	Hattori	1988	516	J Hatt Bot Lab 65: 437 [PNG]

nobilis Steph. 1894 1530

Subgenus: Trachycolea

Typus: Papua New Guinea. "Nova Guinea", Mt. Yule, 11000ft 1891, Exped. Royal Geogr. Soc. Austral.
in hb G G00067217 - n° SIB 129200/1 - 11899 (ex hb MEL, comm Baron F. von Müller) [holotypus] > see fr1530.jpg

Basionym:

Distribution: Indonesia (Seram), Papua New Guinea

spec nov	Stephani	1894	228	Hedwigia 33: 154-155
	MacGregor	1899	664	Bull Misc Info, Kew 1899: 125 [British New Guinea]
	Stephani	1899	2304	Bull Misc Info Kew 1899: 125 [British New Guinea]
	Stephani	1911	686	Spec Hepat 4: 680-681
	Verdoorn	1930	293	Ann Bryol Suppl 1: 57-58, fig 74-77
	Verdoorn	1930	549	Nova Guinea 14 (4): 541
	Hattori	1973	541	J Hatt Bot Lab 37: 113-116, fig 62-63
	Hattori	1973	542	J Hatt Bot Lab 37: 150
	Hattori	1975	547	J Hatt Bot Lab 39: 295
	Hattori	1978	482	J Hatt Bot Lab 44: 535-536 [key to Fr. nobilis & Fr. ornithocephala]
	Shin	1982	3778	Mim. Kagoshima Univ. Res. Center S. Pac 3(1) <5-32> [Papua New Guinea]
	Hattori	1982	495	J Hatt Bot Lab 51: 251-252
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 111 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-163, microfiche 52 fig 3560-3561 ["NGuinea, Mt Yule, Exp Roy geogr Soc, Austin"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 49, 53 [key to Fr. nobilis & Fr. pullei]
	Hattori	1988	516	J Hatt Bot Lab 65: 437 [Papua New Guinea]
	Akiyama	2009	3691	Acta Phytotax. Geobot 60(2): 105 [Indonesia, Seram]

nodulosa (Reinw., Blume & Nees) Nees 1845 5

Subgenus: Homotropantha Nodulosae

Basionym: Jungermannia nodulosa Reinw., Blume & Nees 1824

Distribution: Cameroon, Democratic Republic of Congo, Ghana, Ivory Coast, Nigeria, Sierra Leone, Tanzania, Madagascar, Seychelles, Comores, Belize, Guatemala, Honduras, Costa Rica, Panama, Puerto Rico, Cuba, Dominican Rep, Trinidad, Colombia, Ecuador, Guyana, Surinam, French Guiana, Brazil, Falkland Isl, China (Hainan, Yunnan), Korea (South), Japan, India (South India), Andaman Isl [India], Sri Lanka, Burma, Laos, Thailand, Vietnam, North Vietnam, Singapore, Indonesia (Sumatra, Bangka, Java, Sulawesi, Ceram, Sunda, Timor, Amboina, Kei), Malaysia (Perak, Selangor, Pahang, Johor, Sarawak, Sabah), Borneo, Philippines (Palawan, Luzon, Mindanao, Manila, Leyte, Cebu), New Guinea, Australia (QLD), ?New Zealand, Bismarck Arch (Admirality Isl), Vanuatu, New Caledonia, Palau Isl, Guam, Micronesia [=Caroline Isl] (Ponape), Fiji (Mango, Viti Levu), Society Isl (Tahiti)

Nees in G., L. & N.	1845	2850	Syn Hepat: 433
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 83
Mitten	1861	574	J Linn Soc Bot 5: 121 [South India: Madras]
Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 312 [Java, Sumatra, Banca, Borneo, Amboina, Ceram]
Mitten in Seemann	1871	637	Flora Vitiensis: 418 [Fiji, Tahiti]
Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 36
Schiffner	1889	581	Forschungsreise S.M.S. "Gazelle" 4 (4): 37
Stephani	1889	940	Hedwigia 28: 159 [Australia]
Stephani	1891	208	Hedwigia 30 (5): 202 [Cameroon]
Jack & Stephani	1892	1089	Hedwigia 31: 12 [Philippines]
Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 226
Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134, fig 70(b)
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 333-335
Bescherelle	1898	871	J Bot Morot 12: 138 [Tahiti]
Schiffner	1900	904	Hedwigia 39: 207 [Java]
Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134, fig 70(b)
Stephani	1911	686	Spec Hepat 4: 581-582
Merrill	1914	1484	Philippine J Sci C, Bot 9(1): 40 [Guam]
Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 108 [Tangoa, Santo]
Stephani	1916	222	Biblioth Bot 87: 248 [Bolivia]
Herzog	1927	174	Mit Inst Bot Hamburg 7(1): 196 [West-Borneo]
Verdoorn	1928	244	Ann Crypt exot 1 (2): 218-220 [Amerika]
Verdoorn	1928	242	Rev Bryol NS 1: 116-118, fig 8, 9(b)
Verdoorn	1929	245	Ann Bryol 2: 154 [Java, Sumatra]
Verdoorn	1930	549	Nova Guinea 14 (4): 546
Verdoorn	1930	293	Ann Bryol Suppl 1: 177-183, fig 290, 294-304
Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 99-100; Java-Borneo] & 150
Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 43; Borneo]
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 64 [Netherl Neu Guinea]
Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 500 [Costa Rica, Trinidad, Malay Pen, Java]
Verdoorn	1934	241	Ann Bryol Suppl 4: 210 [China, Sarawak, Philippines, Aroe isl, Sulawesi, Honduras, Surinam] & 212, fig 12 [map]
Verdoorn	1937	556	Blumea suppl 1: 213 [Cambodia, Philippine Islands, Fiji Isl]
Pagan	1939	931	Bryologist 42: 80 [Puerto Rico]
Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
Clark & Svihla	1947	324	Bryologist 50: 381-387, fig 1-33 [u.a. DUTCH GUIANA: Paramaribo (Hans); in woods near pag. d. Sectie 0, about 100 meters (Lanjouw 163) 1933]
Demaret & Vanden Berghen	1947	1101	Bull Jard Bot Etat Bruxelles 18: 239-240 [Nigerie, Cameron, Congo Belge]
Clark & Svihla	1948	325	Bryologist 51: 26 [key to Fr. of Middle America: Guatemala, Panama, Cuba, Isle of Pines, Dominica, Puerto Rico, Trinidad, Dutch Guiana, Brazil, Africa, Andaman Islands, New Guinea (Indo-Malaya, Java, Polynesia, Australia]
Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 318 [Borneo, Sarawak]
Hattori	1951	846	Bot Mag Tokyo 64: 118 [Dutch New Guinea]
Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 128
Hattori	1952	529	J Hatt Bot Lab 8: 30
Herzog	1953	640	Rev Bryol Lichen 20: 129 [Costa Rica]
Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
Arnell	1959	448	Svensk Bot Tidskr 53 (4): 505 [French Guiana]

Miller	1960	920	Bryologist 63: 121 [Micronesia]
Kamimura	1961	199	J Hatt Bot Lab 24: 57-58, fig 21(1-15), map 10
Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: SI]
Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
Miller	1968	672	Micronesia 4 (1): 74 [key to Guam & Northern Micronesia]
Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 132-133, fig 65(a-c) [Central Japan]
Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 333, fig 171 [721]
Tixier	1973	427	Nat Hist Bull Siam Soc 24 (3/4): 456 [Thailand]
Hattori	1974	546	J Hatt Bot Lab 38: 245 [New Guinea]
Hattori	1975	547	J Hatt Bot Lab 39: 295-296
Lisboa	1976	644	Acta Amazonica 6 (2): 175 [Amazonas]
Hattori	1976	80	J Hatt Bot Lab 40: 486-487, fig 200(r)
Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 359 [map of Africa]
Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 132- 135, fig 33(A-O)
Hattori	1977	479	J Hatt Bot Lab 43: 426 [New Caledonia]
Hattori, Thaithong & Kitawaga	1977	480	J Hatt Bot Lab 43: 446 [Thailand]
Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
Grolle	1978	285	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 27 (1): 11 [Seychellen]
Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East Africa; Tanzania]
Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
Griffin III	1979	988	Acta Amazonica 9 (3): 34 [Brazil, Manaus]
Choe	1980	1171	Illust Fl & Fauna Korea 24: 732 [as syn of Fr brotheri; South Korea]
Onraedt & Cremers	1980	75	Crypt Bryol Lichen 1 (3): 274 [French Guiana]
Hattori	1980	490	J Hatt Bot Lab 47: 209-215, fig 1(a-h, r), 2(j-o), 28-29, 41(e-g)
Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 207 [key to Madagascar]
Hattori	1982	495	J Hatt Bot Lab 51: 240
Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 252 [Sierra Leone, Ghana]
Yano	1984	501	J Hatt Bot Lab 56: 506 [checklist Brazil]
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 21-22 [Cat. West Melanesia]
Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 111 [New Guinea]
Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 16 [Fiji]
Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-27ab, microfiche 54 fig 3744 ["Nova Guinea, Fly River Branch, leg ... (F v Müller misit)"] - 3745
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 40
Hattori	1986	506	J Hatt Bot Lab 60: 221 [New Caledonia]
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 303 [Philippines]
Hattori in Piippo	1986	946	Ann Bot Fennici 23: 10 [Frieda River, NG]
Hattori	1986	507	J Hatt Bot Lab 60: 246 [Seram]
Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
Hattori	1988	429	Nova Hedwigia Beih 90: 152 [Australia: QLD]
Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]
Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 209 [Guianas]
Cornelissen & Gradstein	1990	729	Trop Bryol 3 (2): 33 [Guyana]
Piippo	1990	521	J Hatt Bot Lab 68: 45 [annotated catalogue of China]
Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire]
Gradstein	1993	2265	Trop Bryol 7: 81 [Bryophyta Neotropica Exsiccata: Brazil (287), also in F]
Koike	1994	37	J Hatt Bot Lab 75: 186 [Micronesia]
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [South India]
Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
Grolle	1995	250	Bryophyt Bibl 48: 67 [afr3]
Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar]
Whittemore & Allen	1996	653	Bryologist 99 (1): 65 [Belize]
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 89 [Catalogue ... of Sub-Saharan Africa]
Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana, Surinam, French Guiana]
Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 179 [Checklist Panama]
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
Germano & Porto	1998	758	Hoehnea 25 (2): 124-125, fig 6-12 [Brasil]

Bastos & Boas-Bastos	2000	736	Trop Bryol 18: 2 [Brazil]
Bapna & Kachroo	2000	712	Hepaticology in India II: 188-189
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 425-427, fig 214(7-11) [China, Yunnan]
Bai	2001	1742	Guizhou Science 19(4): 49 [China, Yunnan]
Grims	2001	1136	Moosherbar in hb LINZ, from Kamerun [Internet]
Singh in Nath & Astana	2001	1374	Perspectives Indian Bryology: 342 [India & Pantropical]
Bai	2002	1189	Chenia 7: 21 [Yunnan, China]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Cameroun, Comores, Ghana, ivo, Madagascar, Nigeria, sey Sierra Leone, Tanzania, DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Piippo, He, Juslen, Tan, Murphy & Pocs	2002	1002	Ann Bot Fennici 39: 114 [Singapore]
Costa	2003	1447	Acta Amazonica 33(3): 3 [Brazil, State of Acre]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89, fig 287(a-c) [Brazil]
Gao & Lai	2003	1441	Illustrations Bryophytes China: 1129-1132, fig 530(7-11) [China]
Carthy	2003	1125	Flora Australia Suppl Ser 21: 45 [Australia (QLD)]
Wigginton	2004	1172	Sript Bot Belg 30: 236-237, fig 157(A-Q) [West Africa]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Cameroun, Comores, Ghana, Ivory Coast, Madagascar, Nigeria, Seychelles, Sierra Leone, Tanzania, DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 28 [only one collection, potentially vulnerable in Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Gradstein	2006	1401	Crypt Bryol 27(1): 147, 150 [French Guiana: lowland cloud forest]
McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Pantropical, lowland]
Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]
Gradstein & Ilkiu-Borges	2009	1920	Mem New York Bot Gard 76(4): 45-46, fig 26(a-c) [French Guiana]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 243(7-11) [key in Chinese]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 368 [Colombia; synopsis of Frullaniacae & keys]
Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 75-77, fig 35(a-g) [checklist & revision of genus Fullania, Thailand]
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 30, photos [Sumatra, with key]
Lima	2019	5121	Frullania no Brasil [Thesis]: 137-140, fig. 15 [distribution], 16(a-l)
Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 413-415, fig 151(a-s) [India (Western Ghats, keys]
Gradstein	2021	5642	Mem NY Bot Gard 121: 374, fig. 38m,n [key -Ecuador, Colombia]

notarisii Steph. 1911 1535

Subgenus: Mammillosae

Typus: Borneo sd, De Notaris

ex hb DE NOTARIS, in hb JACK, in hb G

Basionym:

Distribution: Malaysia (Kedah, Sarawak, Sabah), Borneo

spec nov	Stephani	1911	686	Spec Hepat 4: 651
	Verdoorn	1928	242	Rev Bryol NS 1: 122
	Verdoorn	1930	293	Ann Bryol Suppl 1: 133, fig 223
	Verdoorn	1934	241	Ann Bryol Suppl 4: 206 [B.N. Borneo]
	Bonner	1965	655	Index Hepat 5: 382
	Hattori	1974	545	J Hatt Bot Lab 38: 211-213, fig 101 [from type]
	Hattori	1976	67	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (1): 7-9, fig 170
	Hattori	1976	80	J Hatt Bot Lab 40: 487, fig 200(s)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-74, microfiche 49 fig 3318 [from type; "Borneo, (ex herb Notaris) - Herb Jack leg"]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]

novocurvirostris S.Hatt. 1981 1536

Subgenus: Trachycolea

Basionym: Frullania curvirostris J.B.Jack & Steph. 1894 [hom illeg] [non Colenso 1889]

Distribution: New Caledonia, Fiji (Ovalau, Viti Levu)

nom nov	Hattori	1981	492	J Hatt Bot Lab 49: 370-371, fig 8(a-j)
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 134
	Hattori	1984	503	J Hatt Bot Lab 57: 419-420
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 16 [Fiji]
	Hattori	1986	506	J Hatt Bot Lab 60: 216

novoguineensis Schiffn. 1890 14

Subgenus: Homotropantha Fallaces

Typus: Indonesia. Irian Jaya, Sorong, "Galewa Strasse, Bäume im Bergwald" 23.4.1875 or 17.6.1875, Naumann [Exped Gazelle]

ex hb WARNSTORF, hb STEPHANI 179, in hb G 14046 [isotypus], in hb FH (hb VERDOORN 3452) [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

	Schiffner	1889	581	Forschungsreise S.M.S. "Gazelle" 4 (4): 37-38, pl 7 fig 17-22
	Stephani	1911	686	Spec Hepat 4: 573 [= sgen Homotropantha]
	Verdoorn	1928	242	Rev Bryol NS 1: 113-114
	Verdoorn	1930	293	Ann Bryol Suppl 1: 165-166, fig 271(:159)
	Verdoorn	1930	549	Nova Guinea 14 (4): 546
	Bonner	1965	655	Index Hepat 5: 382
	Hattori	1980	490	J Hatt Bot Lab 47: 178-180, fig 4(h-q), 6(a-b,d-f)
	Hattori	1982	495	J Hatt Bot Lab 51: 240
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D- 6, microfiche 54 fig 3710 ["Neu GuineA; Naumann leg (ex Herb Warnstorf"] - 3711
	Hattori	1986	507	J Hatt Bot Lab 60: 250
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 40-41

oahuensis Hampe ex Gottsche, Lindenb. & Nees 1843 717

Subgenus: Trachycolea

Typus: Hawaii Isl. "Inter muscos, ex Oahu insula relatos,herb Hampe et Nees" holotype: not located

Basionym:

Distribution: Hawaii (Kauai, Oahu, Molokai, Maui)

spec nov	Hampe ex Gottsche, Lindenberg & Nees	1843	568	Verh K Leop-Carol Akad Naturforsch 19, suppl 1: 471 ["similis Fr. gracilis, parasitica et gymnoti"]
	Evans	1900	236	Trans Connet Acad Arts Sci 10 (1): 397-398, pl 44(12-19)
	Stephani	1910	686	Spec Hepat 4: 438
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 162 [Hawaii]
	Miller	1953	349	Bryologist 56: 44
	Miller	1963	834	Ark Bot, ser 2, 5: 518 [Hawaii]
	Bonner	1965	655	Index Hepat 5: 383
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 134
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-165-, microfiche 52 fig 3566 [missing "fehlt"]
	So & Wang	2006	1466	J H B L 100: 425-426, fig 3 [Hawai, key to Hawaiian species]
	Staples & Imada	2006	1716	Trop bryol 28: 28 [Hawaii]

oakesiana Austin 1870 1539

Subgenus: Frullaniopsis

Typus: USA. New Hampshire, "region of the White Mountains" sd, Oakes [Austin 105A]

in hb MANCH 20647 [Grolle 1970]
in hb US
in hb PH 2884, 2885 [syntypus] > fr1539_2284.png & fr1539_2885.png

Basionym:

Distribution: Norway, Sweden, Finland, Portugal, Italy, Spain, Sicily [Italy], Canary Isl, Canada (NF NS PQ ON), USA (ME VT NH MA NY VA NC TN MI WI MN)

spec nov	Austin	1870	1339	Proc Acad Nat Sci Philadelphia 21: 225
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 7-8, pl 1(7-15)
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 45 [Canada, NS]
	Stephani	1910	686	Spec Hepat 4: 431
	Jorgensen	1934	225	Bergens Mus Skrift 16: 332-333, map 12f [Norway]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 766
	Schuster	1953	604	Amer Midl Nat 49 (2): 567-568, pl 70(4-10)
	Arnell	1956	43	Moss Flora of Fennoscandia: 259, fig 91(3)
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1250-1251, fig 487(1-11)
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 318 [key to europa & macaronesia]
	Inoue	1974	734	Illustrations of Japanese Hepaticae, vol 2: 64-65, fig 32(1-10)
	Grolle	1976	183	Feddes Repert 87 (3/4): 194 [type]
	Inoue	1976	734	Illust Jap Hep 2: 64-65, pl 32(1-10), foto, map of Japan [= ssp. takayuensis]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 256 [Japan; syn with Fr. takayuensis]
	Inoue	1981	963	Mem Natn Sci Mus Tokyo 14: 65 [Japan, Mt. Fuji]
	Grolle	1983	144	J Bryol 12: 421 [checklist Europe]
	Düll	1983	620	Bryol Beitr 2: 68 [Europe & Macaronesia]
	Reinosa & Alvarez	1984	1325	Acta Cient Compostelana 21: 275 [Spain]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 89, microfiche 51 fig 3465 ["America sept, White Nr 2 - (Austin leg)"]
	Sergio	1985	10	Portug Acta Biol (B) 14: 181-183, fig 1
	Sim-Sim	1989	6	Portug Acta Biol (B) 15: 364 [Portugal]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 259 [key to Europe & Macaronesia]
	Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 139, fig 78(1-4), map 100 [USA: North Carolina]
	Schuster	1992	603	Hepat N America 5: 187-197, fig 775(1-5), 792(1-8), 804
	ECCB	1995	1431	Red Data Book European Bryophytes: 54 [Status endandered E]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 116 [key to european species]
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 24 of 35 [in hb US]
	Casas	1998	768	Orsis 13: 20 [checklist Spain]
	Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
	Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 127-128, fig 23(a-h) [Portugal, Madeira]
	Casa, Brugues & Sergio	1999	1279	Crypt Bryol 20(3): 205 [Spain, USA, Portugal, Japan as Fr takayuensis]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Dierssen	2001	779	Bryophyt Bibl 56: 216 [ecology in European bryophytes]
	Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (MA ME NH VT)]
	Söderström, Hassel & Weibull	2002	2672	Distribution maps - Northwestern Europe, vol 1: 20 [map]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 610, fig 246, pl 233(1-9) [Northern Europe]
	Reinoso Franco, Oubina & Gomez Valverde	2002	1235	Stud bot, Salamanca 21: 153-154, fig 5(map) [Spain]
	Lyman	2003	1268	Checklist of Wisconsin bryophytes [USA]
	Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 165 [annotated checklist of Portugal]
	Cleavitt	2004	1167	Evansia 21 (2): 53 [USA, New Hampshire]
	Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Spain, Portugal]

	Lincoln	2008	1712	Memoir New York Bot Gard 99: 122 [New England States, USA]
	Hassel & Söderström	2008	1678	Myrinia 18(1): 16-22 [Norway, Sweden]
	Casus, Brugués, Cros, Sérgio, Infante	2009	1983	Handbook Liverw Iberien penins & Bal Isl., 143, fig52(1-2) [Iberian Peninsula]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: EUR, FAR EAST]
	Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 72 [ecology]
	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 201-242 [belong to subg. Frullaniopsis subgen. nov.]
	Dulin	2021	6089	J Bryoloy [Russian Federation (Komi Republic)]

oakesiana ssp. takayuensis (Steph.) R.M.Schust. 1992 1540

Subgenus: Trachycolea Trachycolea

Basionym: Frullania takayuensis Steph. 1910

Distribution: Sakhalin, Japan

	Inoue	1976	734	Illust Jap Hep 2: 64-65, pl 32(1-10), foto, map of Japan [as Fr. oakesiana]
comb nov	Schuster	1992	603	Hepat N America 5: 195 [comb nov]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 28, fig 23(a-v) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]
	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150, p. 201-242 [as Fr takayuensis, belong to subg. Frullaniopsis subgen. nov.]

obcordata (Lehm. & Lindenb.) Lehm. & Lindenb. 1845 872

Subgenus: Caulisequa

Basionym: Jungermannia obcordata Lehm. & Lindenb. 1834

Distribution: USA (FL GA AL MS LA SC NC VA), Belize, Costa Rica, Honduras, Panama, Cuba, Jamaica, Martinique, Guadeloupe, Dominican Rep., Colombia, Venezuela, Ecuador, Peru, Brazil, Guyana, Surinam, French Guiana, Argentina

spec nov	Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 447 [Jungermannia obcordata, Guiana]
	Lindenberg & Gottsche	1851	282	Linnaea 24 (5): 638 [Suriname]
	Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 226
	Stephani	1911	686	Spec Hepat 4: 637-638
	Evans in Britton & Millspaugh	1920	1094	Bahama Flora: 520 [Bahamas]
	Verdoorn	1933	233	Ann Bryol 6: 96 [Hepat select crit, ser 5 & 6: 96 no 298; America sept.]
	Kurz & Little	1933	1349	Liverworts North & Central Florida: 15 [key to species of Florida, USA]
	Fulford	1939	660	Ann Bryol 11: 56 [British Honduras]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 760-762, fig Fro(1-6)
	Clark & Svihla	1948	325	Bryologist 51: 26 [key to Fr. of Middle America: Florida, Louisiana, North Carolina, South Carolina (British Honduras, West Indies, South America).]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 86 [Brazil]
	Bonner	1965	655	Index Hepat 5: 384
	Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 5 Galapagos Isls]
	Yano	1984	501	J Hatt Bot Lab 56: 506 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-34, microfiche 48 fig 3268-3269 ["Brasilia inter Fr ..."]
- syn nov	Yuzawa	1988	511	J Hatt Bot Lab 64: 444-445, fig 5(from type) (syn sub Fr. caulisequa]
	Cornelissen & Gradstein	1990	729	Trop Bryol 3 (2): 33 [Guyana]
	Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 142-143, fig 81(1-5), map 103 [USA: North Carolina]
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Schuster	1992	603	Hepat N America 5: 111-118 [follows Yuzawa as Fr. caulisequa]
	Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [= Fr caulisequa]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 86 [Brazil] [sub Fr caulisequa]
	Martinez	2005	2307	Cuba: Parque Nacional “Alejandro de Humboldt", p. 222
	Yano	2008	1684	Boletim Instituto Botanica 19: 90 [syn sub Fr caulisequa; Brazil; catalog]
	Winter & Schäfer-Verwimp	2020	5742	Frahmia 19: 9- 13, fig 15-19 [new synonyms, sgen Diastaloba key]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 374, fig. 36k,l [key -Ecuador, Colombia]

obovata S.Hatt. 1982 1542

Subgenus: Trachycolea

Typus: China. Sichuan, Hsiangcheng Co, 4100m 6.8.1981, L.S. Wang 81-2561
in hb NICH [holotypus], in hb KUN, hb TNS [isotypus]

Basionym:

Distribution: China (Sichuan)

spec nov	Hattori	1982	72	Bull Natn Sci Mus Tokyo, ser B (Bot), 8 (3): 97-99, fig 3
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 141
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 14
	Piippo	1990	521	J Hatt Bot Lab 68: 45 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [Sichuan]
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 31: Holotype. China, Sichuan, Hsiangcheng. 4100 m. On trunk of Picea. 6 Apr. 1981. L. S. Wang 81-2561 (NICH 382633).

obscura var. spiniloba (Steph.) Hentschel & von Konrat 2015 2468

Subgenus: Chonanthelia Cladocarpicae

Basionym:

Distribution: Ecuador

comb nov	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 136 [comb nov as Fr obscura var. spiniloba]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 375 [key -Ecuador]

obscura (Sw.) Mont. 1840 1959

Subgenus: Chonanthelia Cladocarpicae

Basionym: Jungermannia obscura Sw. 1806

Distribution: Bioko (Fernando Po), Burundi, Cameroon, Democratic Republic of Congo, Ethiopia, Ghana, Kenya, Malawi, Mozambique, Nigeria, Rwanda, Sao Tome, Tanzania, Uganda, Zimbabwe, Madagascar, Mauritius, Reunion, South Africa (Natal), Mexico, Guatemala, Costa Rica, Panama, Jamaica, Haiti, Puerto Rico, Martinique, Ecuador, Galapagos Isl (Santa Cruz)[Ecuador], Colombia, Peru, Bolivia, French Guiana, Brazil, Chile, Argentina, China (Yunnan), Taiwan, India [North: Assam, Meghalaya (Shillong); South: Tamil Nadu (Nilgiri Hills, Western Ghats)], Sikkim. Bhutan, Nepal, Sri Lanka, Burma, Thailand, Vietnam, Philippines, Norfolk Isl

	Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
	Montagne	1840		Ann. Sci. Nat. Bot. (sér. 2) 14: 333,
	Stephani	1910	686	Spec Hepat 4: 329 [as Jungermannia obscura syn sub Fr. riojaneirensis]
	Bonner	1965	655	Index Hepat 5: 384-385 [sub Fr riojaneirensis]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
	Yuzawa, Mues & Hattori	1987	509	J Hatt Bot Lab 63: 425-436 [obscura =/= riojaneirensis]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 252 [sub Fr riojaneirensis]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89 [Brazil] [The name F. obscura, however, is the older of the two and has priority if the synonymy is correct]
	Gradstein	2012	3341	Cryptogamie, Bryologie 33(3): 257-262 [lectotypification of Jungermannia obscura]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):214 [Panama]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
	Sukkharak	2017	4719	Nova Hedwigia - PrePub: 10-13, fig 1(a-i) [checklist & revision of genus Fullania, Thailand] is a valid species
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
	Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 392-394, fig 141 (a-p) as arecae [India (Western Ghats, keys]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 70-74, fig. 6 [distribution]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 375, fig. 38o,p [key -Ecuador, Colombia]

obscurifolia Mitt. 1879 759

Subgenus: Trachycolea Australes

Typus: Mauritius. Isle of Rodriques -.2.1877, J. B. Balfour sn

ex hb K, in hb G , in hb NY [holotypus?]
in hb E E0000256 [isotypus]

Basionym:

Distribution: Canary Isl (GC)[Spain], Angola, Annobon, Sa Tome, Burundi, Socotra, Cameroon, Central African Republik, Congo, Democratic Republic of Congo, Djibouti, Ethiopia, Ghana, Kenya, Malawi, Mozambique, Nigeria, Rwanda, Sierra Leone, Tanzania, Swaziland, Uganda, Zambia, Zimbabwe, Madagascar, Mauritius, Seychelles (Mahe, Praslin, Silhouette), Comores (Grande Comore Isl), Rodriguez, South Africa (Natal), Saudi Arabia

spec nov	Mitten	1879	1913	Phil Trans Roy Soc Lond 168: 400-401, fig 40C (1-4)
	Stephani	1911	686	Spec Hepat 4: 679-680
	Bonner	1965	655	Index Hepat 5: 385
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 361 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 143-150, fig 36
	Grolle	1978	285	Wiss Z Fried Schiller Univ Jena, Math-Nat Reihe 27 (1): 11 [Seychellen]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 210, 213 [key to Madagascar] & 222, fig 4
	Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 252 [Sierra Leone, Ghana]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 29, microfiche 50 fig 3381 ["(Africa orientalis) Rodriquez Ins, auch Mauritius"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Frey & Kürschner	1991	1033	Bryophyt Bibl 39: <1-181>
	Frey & Kürschner	1991	1033	Bryophyt Bibl 39: 31 [Saudi Arabia]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire, Rwanda]
	Fischer	1993	309	Trop Bryol 8: 95 [key to species in eastern Zaire & Rwanda]
	Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): 5 [Canary Isl (GC), description)
	O'Shea	1993	985	J Bryol 17: 648 [Malawi]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles (Mahé Isl), Comoro Isl (Grande Comore Isl), Madagascar]
	Chuah-Petiot	1995	31	Trop Bryol 10: 51 [Kenya: Mount Kenya]
	Grolle	1995	250	Bryophyt Bibl 48: 67 [afr3]
	Pérez & Sánchez	1996	297	Trop Bryol 12: 47 [Annobón]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 89-90 [Catalogue ... of Sub-Saharan Africa]
	Chuah-Petiot	1996	296	Trop Bryol 12: 72 [Kenya]
	Dilg & Frahm	1997	645	Trop Bryol 13: 38 [South Africa, Drakensberge]
	Chuah-Petiot	1997	646	Trop Bryol 13: 63 [Kenya, Aberdare Range]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Hodgetts, Matcham & Duckett	1999	754	J Bryol 21: 142 [Lesotho, Natal]
	Pocs & Lye	1999	724	Trop Bryol 17: 30 [Uganda]
	Kürschner	2000	737	Bryophyt Bibl 55: 39 [Saudi Arabia], map 44
	Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: Annobon]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 5-6 [Mulanje Mt, Malawi]
	Dierssen	2001	779	Bryophyt Bibl 56: 216-217 [ecology in European bryophytes]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
	Chuah-Petiot	2001	1074	Trop Bryol 20: 37 [Cherangani Hills, Kenya]
	Müller & Pocs	2002	1078	Trop Bryol 22: 110 [Rodrigues] & 113 [Commors, Magagascar, Mauritius, Seychelles]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Rwanda, South Africa, Seychelles, Sierra Leone, swz, Tanzania, Uganda, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Angola, Annobon, Burundi, Central African Rep, Cameroun, Comores, Congo, Djibuti, Ethiopia, Ghana, Kenya, Lesotho, Mauritius, Madagascar, Malawi, Mozambique, Nigeria, Rodrigues] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Chuah-Petiot & Pocs	2003	1082	Acta Bot Hungarica 45 (1-2): 57 & 60 [Aberdare Mts., Kenya]
	Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 205, fig 267(a-e) [Kenya; key to species]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Angola, Annobon, Burundi, Central African Rep, Cameroun, Comores, Congo, Djibuti, Ethiopia, Ghana, Kenya, Lesotho, Mauritius, Madagascar, Malawi, Mozambique, Nigeria, Rodrigues] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Rwanda, South Africa, Seychelles, Sierra Leone, swz, Tanzania, Uganda, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Eggers, Infante & Heras	2004	1340	Trio Bryology 25: 22 [new to Sao Tome]
	Wigginton	2004	1172	Sript Bot Belg 30: 233, fig 153(A-M) [West Africa]

obtusangula Hentschel & von Konrat 2015 2469

Subgenus: Trachycolea

Typus:

Type:—TAIWAN. s. loc. spec., 1903, Faurie 44 (G, lectotype designated by Hattori & Lin 1985: 134).

Basionym:

Distribution: Taiwan

nom nov	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 137: [nom. nov. pro Frullania formosae Steph] nom. illeg. (ICN Art. 53.1; hom. illeg.).

ocellata S.Hatt. & Kamim. 1973 1551

Subgenus: Diastaloba Diastaloba II

Typus: Malaysia. Sarawak, Borneo, Mt. Kinabalu 15.5.1963, Z. Iwatsuki 153

Basionym:

Distribution: Malaysia (Sabah), Borneo (Mt. Kinabalu)

spec nov	Kamimura & Hattori	1973	543	J Hatt Bot Lab 37: 531-533, fig 11
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 83 [Borneo, Mt. Kinabalu]
	Hattori	1976	80	J Hatt Bot Lab 40: 488 [Borneo]
	Schuster	1985	441	[belongs to Diastaloba, Ocellatae]
	Schuster	1985	441	Phytologia 57 (5): 371 [sect Ocellatae - type species for nov sect]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Frahm et al	1990	79	[Mt. Kinabalu]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type specimens Hatt Bot Lab (NICH) 31: Holotype. Borneo, N. Borneo, Mt. Kinabalu. 1400-1900 m. On fallen branch. 16 May 1963. M. Mizutani 2066 (NICH 252066).
	Chuah-Petiot	2011	3242	Polish Bot J 56 (1): [Malaysia]
	Lee et al	2022	6217	Phytokeys 199: [Malaysia]

odontostipa Spruce 1890 1552

Subgenus: Diastaloba

Typus: Bolivia. 1885/86, H.H. Rusby 3069

ex hb SLATER, in hb G

Basionym:

Distribution: Bolivia

spec nov	Spruce	1890	898	Mem Torrey Bot Club 1: 120-121
	Stephani	1911	686	Spec Hepat 4: 632-633
	Bonner	1965	655	Index Hepat 5: 388
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-22, microfiche 48 fig 3252 ["(Thyopsiella) Bolivia Rusby legit"]

okabea-nakamurae Kamim. 1974 2453

Subgenus: Incertae sedis

Typus: Java: Bunka, Pun 20, on tree trunk, occurring with Ptychocoleus sp., Lejeunea sp., Frullania serrata Aug. 17, 1972, M.Okabe; S. Nakamura & Y. Kawakami. (no. 7-a)

in hb NICH (holotype),
in hb Kamim. (197286)

Basionym:

Distribution: Indonesia (Java)

	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 79-80, fig 5(1-13) [Java, near Fr spinosistipula & apiculata]

okinawensis Kamim. 1982 1553

Subgenus: Trachycolea

Typus: kinawa, Ieshiro-shiroyama 20.7.1961, I. Hino 57

in hb NICH 67740 [holotypus]

Basionym:

Distribution: Japan (Okinawa)

	Kamimura	1982	420	Misc Bryol Lichen 9 (4): 90-91, fig 3
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 28, fig 24(a-n) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 31: Holotype. Japan, Ryukyu, Okinawa Is., Ieshiro-shiroyama. 20 July 1961. I Hino 57 (NICH 67740).
	Hosoi & Yamada	2010	2646	Bryol Res 10(2): 50-52, fig 1(map), 2(a-o)
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

onraedtii Vanden Berghen 1976 1554

Subgenus: Meteoriopsis Obtusilobae

Typus: Maurice. 600m 11.12.1973, Onraedt 73Ma414

in hb VANDEN BERGHEN [holotypus], in hb ONRAEDT [isotypus]

Basionym:

Distribution: Mauritius

spec nov	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 60-62, fig 15 (type)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 344 [map of Africa]
	Grolle	1995	250	Bryophyt Bibl 48: 67 [afr3]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Mauritius] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Mauritius] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 31: Isotype. Ile Maurice, invirons de Yemen. 600 m. 11 Dec. 1973. F. M. Onraedt 73-Ma-414 (NICH 431942).

orbicularis Austin 1869 1555

Subgenus: Trachycolea

Typus: Nepal

in hb SULLIVANT

Basionym:

Distribution: Nepal, Sikkim

spec nov	Austin	1869		Proc Acad Nat Sci Philadelphia 1869 (Separata): 10
spec nov	Austin	1870	1339	Proc Acad Nat Sci Philadelphia 21(4): 227-228
	Stephani	1911	686	Spec Hepat 4: 557-558
	Chopra	1938	1648	Proceed Indian Acad Sci, sect B, 8: 437 [Sikkim Himalayas and Bengal]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: EH Nepal]
	Bonner	1965	655	Index Hepat 5: 387
	Grolle	1966	843	Khumbu Himal 4: 266 [Nepal]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 197
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 18 [Nepal]
	Pradhan & Joshi	2009	1941	Botanica Orientalis, Journal of Plant Science. 6(6): <69-75> [Nepal]
	Singh et al	2016	4561	Liverworts and hornworts of India: 293 (India doubtfull]

orientalis Sande Lac. 1855 1556

Subgenus: Trachycolea Orientalis

Typus: Indonesia. Java sd, Teysmann sn
in hb DOZY & MOLKENBOER ("MOLKENBAUER")
in hb L [holotypus]

Basionym:

Distribution: China (Yunnan), Taiwan, ?? India, Sri Lanka, Vietnam, Malaysia (Pahang, Sabah), Borneo, Indonesia (Sumatra, Java, Sulawesi, Ceram), Philippines (Luzon), New Guinea, Fiji (Viti Levu)

spec nov	Sande Lacoste	1855	2039	Nederl Kruidk Arch 4: 94
	Sande Lacoste in Dozy	1856	564	Plagiochila sandei Dozy: 10
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 91-92, pl 19
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 314 [Java]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 335
	Merrill	1906	1497	Philippine J Sci 1, suppl 1: 11 [Philippines: Lamao forest reserve]
	Stephani	1911	686	Spec Hepat 4: 615-616
	Verdoorn	1929	246	Ann Bryol 2: 159
	Verdoorn	1930	549	Nova Guinea 14 (4): 545
	Verdoorn	1930	293	Ann Bryol Suppl 1: 152-153, fig 239-242, 267 [within the new section Orientales]
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 93; Java] & 148-149
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 63 [Sumatra, Java]
	Verdoorn	1937	556	Blumea suppl 1: 212-213 [Malay Peninsula, Papua]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 18 [India: IO]
	Bonner	1965	655	Index Hepat 5: 387
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Hattori	1972	539	J Hatt Bot Lab 36: xxxxx sub [subg. Frullania ("Trachycolea") sect. Ornitocephalae Verd. Based on study of the type material]
	Hattori	1973	542	J Hatt Bot Lab 37: 150 [New Guinea]
	Hattori	1975	547	J Hatt Bot Lab 39: 296-297, fig 147
	Hattori	1976	80	J Hatt Bot Lab 40: 488-491, fig 188-189 [Asian &Pacific Islands]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Hattori	1982	495	J Hatt Bot Lab 51: 236
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-59, microfiche 56 fig 3856 ["Java, Sande Lacoste legit"]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 111-112 [New Guinea]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 154 [China]
	Hattori	1986	507	J Hatt Bot Lab 60: 246 [Seram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 38-39
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Hattori	1988	516	J Hatt Bot Lab 65: 438 [PNG]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 190
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 427-429, fig 215(9-14) [China, Yunnan]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 5 [initial branching appendages]
	Bai	2001	1742	Guizhou Science 19(4): 49 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 22 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1132, fig 531(9-14) [China]
	Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
	Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Asiatic, montane]
	Uribe	2008	1513	Caldasia 30(1): 91, [type was not available] [Monography of subgenus Meteoriopsis]
	Hentschel	2009	1944	xxxxx [the species may be placed in subg. Frullania sect. Orientales]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 246(9-14) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Uribe-M.	2011	2767	Caldasia 33(1): 71, fig 1(g-l) from type of Fr obliqua [type study, belongs to sg Frullania, sect Orientalis]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]

	Singh et al	2016	4561	Liverworts and hornworts of India: 293 (India doubtfull]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]

orinocensis Spruce 1883 1559

Subgenus: Trachycolea

Typus: Colombia. "ad Maypures cataractes (Orinoco]" sd, Spruce sn

in hb E E00002568 (Brazil, sd, Spruce sn) [isotypus]

Basionym:

Distribution: Colombia

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 15 & 30-31
	Stephani	1911	686	Spec Hepat 4: 535 [=sgen Frullania]
	Bonner	1965	655	Index Hepat 5: 387
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-119, microfiche 58 fig 4046 ["ad Maypures cataractas, leg Spruce", 313]

ornithocephala (Reinw., Blume & Nees) Nees 1845 1560

Subgenus: Trachycolea

Typus: Indonesia. Java Blume

Basionym: Jungermannia ornithocephala Reinw., Blume & Nees 1824

Distribution: Thailand, Malaysia (Pahang, Sabah), Borneo, Indonesia (Sumatra, Java, Bali, Sulawesi, Ceram, Amboina), Philippines

	Nees in G., L. & N.	1845	2850	Syn Hepat: 425-426
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 76-77, pl 15(1-11) [as Fr. teres]
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 312 [Java]
	Goebel	1887	1601	Annales du Jardin Botanique de Buitenzorg 7: 27
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 335-336
	Schiffner	1900	904	Hedwigia 39: 208 [Java]
	Merrill	1906	1496	Philippine J Sci C, Bot 5: 311 [Philippines: Mt. Pulog]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183 [key to Japanese species, in Japanese]
	Stephani	1911	686	Spec Hepat 4: 461-462
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Verdoorn	1929	245	Ann Bryol 2: 128-129 [Java, Sumatra]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 52-55, fig 65-68
	Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 34; Java]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 56 [Java]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 489 [Java, Bali, Celebes]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 203-204 [B.N. Borneo: Mt Kinabalu, Java, Lombok, Celebes] & 215, fig 19 [map]
	Bonner	1965	655	Index Hepat 5: 387
	Hattori	1974	546	J Hatt Bot Lab 38: 245-250, fig 120-123 [= Fr. pauciramea *]
	Hattori	1974	544	J Hatt Bot Lab 38: 178-179 [Luzon]
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 114
	Hattori	1975	547	J Hatt Bot Lab 39: 297 [= Fr. pauciramea *]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 451-452 [Thailand]
	Hattori & Thaithong	1978	128	J Jap Bot 53 (6): 173 [Laos]
	Hattori	1978	482	J Hatt Bot Lab 44: 536 [key to Fr. ornithocephala & Fr. nobilis]
	Hattori	1982	495	J Hatt Bot Lab 51: 253-255 [*], 263
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-165ab, microfiche 52 fig 3563-3565 ["Nees ... Java"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Hattori	1988	516	J Hatt Bot Lab 65: 438-439 [PNG; conspecific with Fr. pauciramea]
	Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
	Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Asiatic, montane]
	Haerida	2015	4229	Floribunda 5(2): [Bali, with key]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 45, fig 18(a-l) [keys, checklist & revision of genus Fullania, Thailand]
	Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
	Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 31, photos [Sumatra, with key]

ornithocephala fo. magnilobula S.Hatt. 1976 1563

Subgenus: Trachycolea

Typus: Malaysia. Sarawak, Mt. Kinabalu

Basionym:

Distribution: Malaysia (Sabah), Borneo (Mt. Kinabalu)

fo nov	Hattori	1976	80	J Hatt Bot Lab 40: 491, fig 190(e-g)
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 31: Holotype. Borneo, Mt. Kinabalu, between Sosopodon and S. Kelinggen. 1350-1400 m. On fallen branches. 26 May 1963. M. Mizutani 3826 (NICH 253826).

ornithocephala fo. retusa S.Hatt. 1976 1567

Subgenus: Trachycolea

Typus: Malaysia. Sarawak, mt. Kinabalu, along summit trail, 5800ft -.2.1973, G.A. Shea 2222 in hb NICH

Basionym:

Distribution: Malaysia (Sabah), Borneo (Mt. Kinabalu)

fo nov	Hattori	1976	80	J Hatt Bot Lab 40: 491-492, fig 190(a-d)
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 31: Holotype. Borneo, Sabah, Mt. Kinabalu. 5800 ft. On fallen branches. Feb. 1973. C. Shea 2222 (NICH 333215).

ornithocephala var. tuberculosa S.Hatt. 1974 1570

Subgenus: Trachycolea

Typus: Philippines. Luzon

Basionym:

Distribution: Philippines (Luzon)

var nov	Hattori	1974	544	J Hatt Bot Lab 38: 179-180, fig 4(a-g) [Luzon]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 31: Holotype. Philippines, Luzon, Mt. Pulog. 2200-2700 m. 11 June 1965. Z. Iwatsuki 415 (NICH 266513).

ornithocephala fo. teres (Sande Lac.) Verd. 1929 1568

Subgenus: Trachycolea

Basionym: Frullania teres Sande Lac. 1857

Distribution: Indonesia (Java)

	Verdoorn	1929	245	Ann Bryol 2: 129
	Verdoorn	1929	246	Ann Bryol 2: 156
	Verdoorn	1930	293	Ann Bryol Suppl 1: 55

ornithocephala var. pilosa Verd. 1929 1566

Subgenus: Trachycolea

Typus: Indonesia. Java, Mt. Pangerango, Artja, 930m 7.4.1894, Schiffner 1679

Basionym:

Distribution: Indonesia (Java)

var nov	Verdoorn	1929	245	Ann Bryol 2: 129, fig 4 [Vielleicht eine eigen Art]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 55
	Bonner	1965	655	Index Hepat 5: 388
	Hattori	1974	544	J Hatt Bot Lab 38: 179-180 [it may be a proper species]

osculatiana De Not. 1855 1571

Subgenus: Meteoriopsis Intumescentes

Typus: Colombia. "Flumen Napo" sd, Osculati

Basionym:

Distribution: Costa Rica, Colombia, Peru

spec nov	Notaris	1855	5341	Jungermanniearum Americanarum pugillus [Seperata]: 30-32, fig 21(1-7) [spec nov]
	Notaris	1857	558	Mem Reale Accad Sci Torino, ser 2, 16: 236-238, fig 21(1-7) [spec nov]
	Stephani	1911	686	Spec Hepat 4: 601-602 [America tropica andina]
	Clark & Svihla	1953	351	Bryologist 56: 137-139, fig 1-16 [
	Herzog	1953	640	Rev Bryol Lichen 20: 129 [Costa Rica]
	Bonner	1965	655	Index Hepat 5: 388 [Colombia]
	Reed & Robinson	1971	1406	Phytologia 21 (1): 19 [Costa Rica: Monteverde]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-30, microfiche 55 fig 3811 ["Columbia, leg F.C. Lehmann No 680"] - 3812
	Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Uribe	2008	1513	Caldasia 30(1): 91, [type was not available; may be syn with Fr peruviana] [Monography of subgenus Meteoriopsis]
	Rodriquez et al.	2017	4629	Arnaldoa 24(1): 255 [Peru, La Libertad] - as "osculantiara]

osumiensis (S.Hatt.) S.Hatt. 1956 1572

Subgenus: Trachycolea Acutilobae

Basionym: Frullania hampeana var. osumiensis S.Hatt. 1944

Distribution: China, Taiwan, Korea (South), Japan, Ryukyu (Okinawa)

stat nov	Hattori in Iwatsuki & Hattori	1956	861	J Hatt Bot Lab 16: 87
	Hattori, Iwatsuki & Kanno	1956	862	J Hatt Bot Lab 16: 93
	Kamimura	1961	199	J Hatt Bot Lab 24: 39, fig 14(1-9, 15(1-5), map 11
	Bonner	1965	655	Index Hepat 5: 388-389 [Philippines *]
	Hong	1966	1107	Bryologist 69 (1): 412 [South Korea]
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 37 [Ryukyu: Okinawa]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 133-134 [Central Japan]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 735 [sub Fr. osumiensis var orbiculata KAMIM.]
	Choe & Choi	1980		"Reports of Science Education 12: 27-56, Institute of Science Education, Kongju National Teacher's College, Kongju [as Fr. osumiensis var orbiculata KAMIM.]
	Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 114 [new to Taiwan]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 256 [Japan]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 141-142 [China, not in Philippines*]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Chao & Lin	1991	458	Yushania 8: 14 [Taiwan]
	Chao & Lin	1992	460	Yushania 9: 207, fig15(a-f) [Taiwan]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 288 [Korean Peninsula]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Lin & Chen	1997	1130	Biol Bull 75: 98-100, fig 15(a-d) [Taiwan, key to species, in Taiwanese]
	Lin	2000	1524	Liverwort Flora Taiwan: 169-170, fig p 171(1-3) [Taiwan]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 282, pl 164(4) [with key to Japan, in Japanese]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 28-33, fig 25(a-n) 26(a-m) 27(a-m) [Japan, keys to species; in Japanese]
	Song & Yamada	2006	1445	J H B L 100: 446 [from Jeju (Cheju) Isl, Korea]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 31 [Catalog of Japan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

pachyderma S.Hatt. 1978 1575

Subgenus: Trachycolea

Typus: Papua New Guinea. Morobe, Mt. Susu, 1000m 10.11.1974, G. Shea 9051

in hb NICH [holotypus], in hb SHEA [isotypus]

Basionym:

Distribution: Papua New Guinea

spec nov	Hattori	1978	482	J Hatt Bot Lab 44: 525-527, fig 201
	Hattori	1982	495	J Hatt Bot Lab 51: 253
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 49-50
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 32: Holotype. Papua New Guinea, Mt. Susu. 1000 m. On lower stem of dead climber. 10 Nov. 1974. G. Shea 9051 (NICH 345307).

palaeoafricana K.Feldberg, V.Bouju, Schäf-Verw. & A.R.Schmidt 2021 2535

Subgenus:

Typus: Miocene Ethiopian amber

Basionym:

Distribution:

	Bouju et al	2021	5217	Journal of Systematics and Evolution doi: 10.1111/jse.12796

pallidevirens Steph. 1911 1576

Subgenus: Trachycolea

Typus: China. Prov. Kong Tcheou, Pin-fo 27.11.1903, P. Fortunat

in hb G (hb STEPHANI 14)

Basionym:

Distribution: China (Yunnan, Guizhou, Fujian, Guangxi), Japan, India (North: West Bengal (Darjeeling)), Nepal, Bhutan, Burma, Thailand

	Theriot	1909	3357	: 20 [announced as spec nov "pallido-virens"]
spec nov	Stephani	1911	686	Spec Hepat 4: 454
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 38 [China]
	Bonner	1965	655	Index Hepat 5: 390
	Hattori	1973	541	J Hatt Bot Lab 37: 101-103, fig 55
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 235 [Nepal]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 452 [Thailand]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 186-187 [Darjeeling]
	Long	1979	50	Lindbergia 5: 60 [Bhutan]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 323 [Easter Nepal]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 142 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-166, microfiche 52 fig 3567 [from type; " China, Provinz Kong Tscheu, leg P Fortunat 1903; in rupibus"]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 196 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Nepal]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 408, fig 204(9-13) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 122, fig. 54(7-11)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 176-177
	Bai	2001	1742	Guizhou Science 19(4): 43 [China, Yunnan]
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 18 [Nepal, 2200-2520 m]
	Bai	2002	1189	Chenia 7: 16 [Yunnan, China]
	Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, Fujian Prov.]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1112-1115, fig 520(9-13) [China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 230(9-13) [key in Chinese]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 45-58, fig 19(a-g) [checklist & revision of genus Fullania, Thailand]

pallidula S.Hatt. 1988 1578

Subgenus: Trachycolea Acutilobae

Typus: Australia. Queensland, Lamington NP, 1. trail to Elebana falls500m & 2. Lyrebird lookout trail, 500m 8.8.1981, BT 1108 in hb NICH [holotypus], in hb NY [isotypus]

Basionym:

Distribution: Australia (QLD)

spec nov	Hattori	1988	429	Nova Hedwigia Beih 90: 152-153, fig 2(a-i) [close to Fr. subhampeana]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 45 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 25-26 [Very restricted, vulnerable, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 32: Holotype. Australia, Queensland; Lamington. 500 m. 8 Aug. 1981. B. M. Thiers 1108 (NICH 401572).

pancheri Gottsche 1894 1579

Subgenus: Saccophora

Typus: New Caledonia. Isle des Pères. sd, Pancher 591 ex hb BESCHERELLE, in hb PC & hb G

Basionym:

Distribution: New Caledonia (Isle of Pines), ?Society Isl (Tahiti)

spec nov	Gottsche in Stephani	1894	228	Hedwigia 33: 159
	Paris	1906	676	Rev Bryol 33 (2): 28 [New Caledonia]
	Paris	1908	864	Rev Bryol 35: 62 [New Caledonia]
	Paris	1910	1455	Rev Bryol 37 (6): 130 [New Caledonia: Pic des Sources]
	Stephani	1911	686	Spec Hepat 4: 556
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 168 [New Caledonia]
	Bonner	1965	655	Index Hepat 5: 391
	Hattori	1977	479	J Hatt Bot Lab 43: 426-428, fig 11 [New Caledonia]
	Hattori	1981	492	J Hatt Bot Lab 49: 378-381, fig 12, 13(a-d) [key to Fr. pancheri & Fr. immersa]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 135
	Hattori	1984	503	J Hatt Bot Lab 57: 420
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-174, microfiche 59 fig 4117 ["Nova Caledonia, Ile des Pins, Pancher 591, Bescherelle"] - 4118
	Hattori	1986	506	J Hatt Bot Lab 60: 222 [New Caledonia]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]

papillata Steph. 1911 1580

Subgenus: Frullania

Typus: Papua New Guinea, Milne Bay, Mt. Dayman 1984, Armit
ex hb GEHEEB, in hb G 14238 [holotypus]
Basionym:

Distribution: Malaysia (Sabah), Borneo, Papua New Guinea, Indonesia (Irian Jaya)

spec nov	Stephani	1911	686	Spec Hepat 4: 615
	Verdoorn	1930	549	Nova Guinea 14 (4): 545
	Verdoorn	1930	293	Ann Bryol Suppl 1: 146-147, fig 253
	Verdoorn	1937	556	Blumea suppl 1: 213 [Papua]
	Bonner	1965	655	Index Hepat 5: 392
	Hattori	1973	542	J Hatt Bot Lab 37: 145-147, fig 84
	Hattori	1973	542	J Hatt Bot Lab 37: 150 [New Guinea]
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 77, fig 4(1-7) [new to Borneo, Mt. Kinabalu]
	Hattori	1974	546	J Hatt Bot Lab 38: 250-251, fig 124
	Hattori	1975	547	J Hatt Bot Lab 39: 298
	Hattori	1982	495	J Hatt Bot Lab 51: 221-222
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 112 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-60, microfiche 56 fig 3857 ["N Guinea, Mt Dayman, Armit 1894"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 31-32
	Hattori	1988	516	J Hatt Bot Lab 65: 441-442 [PNG]
	Uribe	2008	1513	Caldasia 30(1): 91, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]

papillilobula S.Hatt. 1975 1581

Subgenus: Saccophora

Typus: Malaysia. Sarawak, SW of Lahad Datu, ca. 20m 16.06.1963, Z. Iwatsuki 5762
in hb NICH 255762
Basionym:

Distribution: Malaysia (Sabah), Borneo, Brunei, Philippines(UWE)

	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 141-142, fig 158 [Lahad Datu - Sabah, Borneo, Malaysia]
	Hattori	1976	80	J Hatt Bot Lab 40: 492 [Brunei, Borneo]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo: Sabah & Brunei]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 32: Holotype. Borneo, SW of Lahad Datu, Madai Cave. 20 m. 16 June 1963. Z. Iwatsuki 5762 (NICH 255762).
	Lee et al	2022	6217	PhytoKeys 199:
	NN	2022		Belege von Uwe Schwarz [Philippines]

papuana Verd. 1930 1582

Subgenus: Meteoriopsis Obtusilobae

Typus: Indonesia. Irian Jaya, Jaya Wijaya, "Wichmann spitze", 3000m -.2.1913, A. Pulle
in hb FH (hb VERDOORN 19804) [holotypus]
Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

Verdoorn	1930	293	Ann Bryol Suppl 1: 82-83, fig 137-139
Verdoorn	1930	549	Nova Guinea 14 (4): 544-555, pl 93(17-19)
Bonner	1965	655	Index Hepat 5: 392
Hattori	1974	546	J Hatt Bot Lab 38: 254, fig 127 [from type]
Hattori	1975	547	J Hatt Bot Lab 39: 298-299
Hattori	1982	495	J Hatt Bot Lab 51: 222
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 32
Hattori	1988	516	J Hatt Bot Lab 65: 442 [PNG]

papulosa Steph. 1911 1587

Subgenus: Mammillosae

Typus: Philippines. Luzon 1906, Loher
in hb G00067230 - n° SIB 129186/1 - 17500 (ex hb M 3pp) holotypus]

Basionym:

Distribution: Philippines (Luzon)

spec nov	Stephani	1911	686	Spec Hepat 4: 654
	Verdoorn	1930	293	Ann Bryol Suppl 1: 132-133, fig 221-222
	Bonner	1965	655	Index Hepat 5: 392
	Hattori	1978	482	J Hatt Bot Lab 44: 537-538, fig 208 [from type]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-76, microfiche 49 fig 3320 [from type; "Luzon, Loher 1906 leg"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]

paradoxa fo. cornistipula Herzog 1952 1591

Subgenus: Meteoriopsis Intumescentes

Typus: Ecuador. Azuay, Cuenca, Lake Llavio, 3600m 1947, G. Harling 2205pp

Basionym:

Distribution: Ecuador

fo nov	Herzog	1952	444	Svensk Bot Tidskr 46 (1): 85-86
	Bonner	1965	655	Index Hepat 5: 393

paradoxa Lehm. & Lindenb. 1845 1588

Subgenus: Meteoriopsis Intumescentes

Typus: Tropical America sd, Hampe & Haecker - In cortice Chinae Lochae legerunt Hampe et Haecker
hb WILLD.
In hb GLM (hb LEHMANN) 06014

Basionym:

Distribution: Mexico, Colombia, Peru, Ecuador, Galapagos ??,[Ecuador], Peru, Bolivia

spec nov	Lehm. & Lindenb.in G., L. & N.	1845	2850	Syn Hepat: 462-463 [Frullania Tamarisci ß paradoxa Hb. Harnpe - In cortice Chinae Lochae legerunt Hampe et Haecker]
	Gottsche	1864	478	Ann Sci Nat Bot, ser 5, 1: 175
	Stephani	1911	686	Spec Hepat 4: 533
	Stephani	1916	222	Biblioth Bot 87: 244 [Bolivia]
	Clark & Svihla	1949	329	Bryologist 52: 89-91, fig 1-18
	Bartram & Arnell	1961	932	Bryologist 64: 249 [Galapagos Isls: San Cristóbal ??, see Gradstein 2009]
	Bonner	1965	655	Index Hepat 5: 392-393
	Stotler	1969	4761	Nova Hedwigia 18: 455-456, pl 19(168-174)
	Stotler	1970	194	The genus Frullania, separata: 455-456, pl 19(168-174)
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
	Cole	1983	1407	Brenesia 21: 154 [Central America]
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-121, microfiche 58 fig 4048 ["syn: Frull ulotricha Tayl, Orig ex Herb Gottsche, Peruvia"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 45 [Mexico]
	Wolf	1993	2379	Phytocoenologia 22(1): 58 [Colombia, Epiphyte - Upper montane rain forest communities: outer canopy, twiglet, community, Diplasiolejeunea pauckertii-Usnea ssp. Community]
	Wolf	1994	2384	Selbyana 16(2): 188 [Colombia, Epiphyte - canopy of Upper Mountain rain forest: preference for Diplasiolejeunea pauckertii-Usnea spp. Community]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 158 [Galapagos Isl ??, San Cristobal (ARNELL 1961); probably a misidentification.]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 368-369 [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 23 [Ecuador]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Lima	2019	5121	Frullania no Brasil [Thesis]: 177-179, fig. 21 [distribution]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 375, fig. 39a [key -Ecuador, Colombia]

paranensis Steph. 1911 1592

Subgenus: Chonanthelia

Typus: Brasilia. Parana, "Serrinha" 16.1.1904, P. Dusen 4395
in hb G 1620(20627) [holotypus], in hb NY [isotypus]

Basionym:

Distribution: Brazil

spec nov	Stephani	1911	686	Spec Hepat 4: 607-608 [Brasilia, Parana]
	Bonner	1965	655	Index Hepat 5: 393
	Yano	1984	501	J Hatt Bot Lab 56: 506 [as Fr. paranaensis; checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-46, microfiche 56 fig 3838 ["Brasilia, Parana, Leg Dusén 1904"] - 3839
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [Brazil]
	Uribe-M	2004	1174	Caldasia 26: 90-93, fig 2(a-i) [sub sgen Chonanthelia, may be conspecific with Fr lindmannii]]
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Chonanthelia] [Monography of subgenus Meteoriopsis]
	Yano	2008	1684	Boletim Instituto Botanica 19: 32 [Brazil; catalog]

parhamii (R.M.Schust.) R.M.Schust. ex von Konrat, L. Söderstr. & A. Hagborg 2011 2463

Subgenus: Microfrullania Microfrullania

Basionym: Neohattoria parhamii R.M.Schust. 1963

Distribution:

	Söderström, Anders, Pócs et al	2011	3251	Telopea 13(3): 407
	Larrain et all	2018	5012	Bry. Div. Evo. 40 (2): 104-112, fig 1(e-f) [key to allied species, p.109]

pariharii fo. intermedia S.Hatt. & Thaithong 1978 1598

Subgenus: Trachycolea

Typus: India. Darjeeling, "around DAK bungalow", Tangloo , 10840
in hb NICH [holotypus], in hb TENN [isotypus]

Basionym:

Distribution: India (North: West Bengal (Darjeeling), Meghalaya), Nepal

	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 188-190, fig 7(a-n)
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 196 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya] - new form from Eastern Himalayas (Hattori & Thaitong 1978)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 177
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 76, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 32: Holotype. India, Tongloo, Darjeeling. 1000 m. 24 Apr. 1965. Z. Iwatsuki, A. J. and Evelyn Sharp 10840 (NICH 262094).

pariharii S.Hatt. & Thaithong 1978 1597

Subgenus: Trachycolea

Typus: India. Darjeeling -.10.1968, Dr. Parihar 1968/39

in hb NICH [holotypus], in hb PARIHAR [isotypus]

Basionym:

Distribution: Taiwan, India (North: Uttaranchal (North Garhwal, Almora, ...) to West Bengal (Darjeeling)), Nepal

	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 66-68, fig 1(a-p) [India; as sibling species to Fr. microauriculata from Java]
spec nov	Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 130-131
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 187-188, fig 6(a-i)
	Chao, Lin & Chan	1992	459	Yushania 9: 17, fig 5(a-i) [Taiwan, abies forest]
	Chao & Lin	1992	460	Yushania 9: 207, fig16(a-j) [Taiwan]
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 196 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya] - new species from Eastern Himalayas (Hattori & Thaitong 1978)
	Lin & Chen	1997	1130	Biol Bull 75: 101, fig 16(a-l) [Taiwan, key to species, in Taiwanese]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 177, fig 165(a-f)
	Lin	2000	1524	Liverwort Flora Taiwan: 171-172, fig p 171(1-11) [Taiwan]
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 278-279, map 11 - Unpublished thesis.
	Singh & Singh	2007	1475	Crytogamie, Bryologie 28(3): 255 [India new to Himachal Pradesh]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 32: Holotype. Himalaya, Darjeeling. On tree trunk. Oct. 1968. N. S. Parihar 1968/39 (NICH 341038).
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 415-417, fig 152(a-q) [India (Western Ghats, keys]

partita Ya Li, Y.D. Wang, H. Schneid. & P.C. Wu 2020 2502

Subgenus: Incertae sedis

Typus: An active amber mine near Tanai, Ledo Road, 105 km northwest of Myitkyina, Kachin State, northern Myanmar; lowermost Cenomanian (mid-Cretaceous).

holotype: NPA (PB23146)

Basionym:

Distribution:

spec nov	Li, Wang, Scheider, Wu	2019	5629	Cretaceous Research 108: 104341 [2]. 2020[2019]. (2 December 2019)
	Feldberg et al	2021	5972	Bry Div Evo 43(1): 36, fig 6C

parvifolia Steph. 1910 1599

Subgenus: Trachycolea

Typus: China. sd, s coll

hb LZ (sub Fr. lobulata], in hb G 7951

Basionym:

Distribution: China

spec nov	Stephani	1910	686	Spec Hepat 4: 354 [as Chonanthelia]
	Bonner	1965	655	Index Hepat 5: 394
	Hattori	1973	541	J Hatt Bot Lab 37: 103-105, fig 56
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 142 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 98, microfiche 47 fig 3209 ["China Herb Univ Lips"]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]

parvistipula Steph. 1910 594

Subgenus: Trachycolea Australes

Typus: Japan, Tosa, Nishi-harami 9.4.1906, S. Okamura 170

in hb G 3709

Basionym:

Distribution: Switzerland, Spain, Italy, Sicily [Italy], Romania, Russia (Caucasus, Siberia, Far East, Altai), Sakhalin, Japan, China (Jilin. Shandong, Hunan, Giuzhou, Yunnan), Taiwan, India, Bhutan, Thailand

spec nov	Stephani	1910	686	Spec Hepat 4: 397
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 150-151, fig 93(a-g) [Japan, key to Japanese species]
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 129
	Hattori	1952	529	J Hatt Bot Lab 8: 30
	Hattori	1959	857	J Hatt Bot Lab 21: 128 [Japan]
	Kamimura	1961	199	J Hatt Bot Lab 24: 29, fig 6(24-27) [as Fr. muscicola form C]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 134 [Central Japan]
	Hattori	1975	410	Misc Bryol Lichen 7 (2): 28-29 [Japan]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 452 [ev. conspecific with Fr. caucasia] [Thailand]
	Hattori	1978	482	J Hatt Bot Lab 44: 542-545, fig 212 [conspecific with Fr. caucasia]
	Long	1979	50	Lindbergia 5: 60 [Bhutan]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 256 [Japan]
	Hattori	1981	491	J Hatt Bot Lab 49: 165 [key to Japanese Fr. dilatata-complex]
	Düll	1983	620	Bryol Beitr 2: 68 [Europe & Macaronesia]
	Grolle	1983	144	J Bryol 12: 421 & 440 [checklist Europe]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-247, microfiche 53 fig 3667 ["Japan, O Kamura 170"]
	Rüegsegger	1986	614	Bot Helvetica 96 (1): 61-71 [Switzerland, key]
	Bisang & Schumacker	1987	612	Bot Helvetica 97 (2): 311-314 [Brutkörper]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 258 [key to Europe & Macaronesia]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 258 [key to Europe & Macaronesia] & 262, fig 14
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Ischiyama & Iwatsuki	1991	267	Hikobia 11: 65-70 [Japan: Hiroshima]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Konstantinova & Vasiljev	1994	650	Arctoa 3: 130 [Siberia, Sayan Mt.]
	Stephanova, Ivanova & Volotovsky	1995	649	Arctoa 4: 37 [Siberia]
	Vana & Ignatov	1995	648	Arctoa 5: 5 [Altai mountains]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 116 [key to european species]
	ECCB	1995	1431	Red Data Book European Bryophytes: 54 [Status endandered E]
	Furuki & Higuchi	1997	1234	Bull Natn Sci Mis, Tokyo, ser B 23(3): 89, pl 8(2) [oil bodies & oil droplets]
	Lin & Chen	1997	1130	Biol Bull 75: 101, fig 17(a-p) [Taiwan, key to species, in Taiwanese]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 397-400, fig 199(1-6) [China, Yunnan]
	Lin	2000	1524	Liverwort Flora Taiwan: 172-173, fig p 172(1-15) [Taiwan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 122-124, fig. 54(12-15)
	Choe & Yamada	2000	1330	Bryol Res (Tokyo) 7(9): 285 [Korea]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Söderström	2000	765	Lindbergia 25: 43 [China]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia] & 124 [as valid species]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 177-178
	Vaoa	2001	1550	ECCB Red Listing of European Bryophytes. [Vulnerable (earlier Endangered)] - http://www.bio.ntnu.no/ECCB/Red/Hepatophyta/Frullania%20parvistipula.pdf
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 281, pl 163(2) [with key to Japan, in Japanese]
	Bai	2001	1742	Guizhou Science 19(4): 43 [China, Yunnan]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 33-35, fig 28(a-q) [Japan, keys to species; in Japanese]
	Dierssen	2001	779	Bryophyt Bibl 56: 217 [ecology in European bryophytes]

Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
Geisller, Bagutti, Bisang, Müller, Schnyder, Schubiger-Bossard & Urmi	2002	1003	Herzogia 15: 203, fig12 [distribution & map of Switzerland and Lichtenstein]
Bai	2002	1189	Chenia 7: 16 [Yunnan, China]
Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean peninsula]
Gao & Lai	2003	1441	Illustrations Bryophytes China: 1105, fig 515(1-6) [China]
Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
Stefanut	2004	1346	Lindbergia 29: 110-111 [new to Romania]
Kawasumi	2005	1378	Bull Kanagawa Prefectural Mus, natural science 26: 26 [Japan]
Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 32 [Catalog of Japan]
Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Jordan, Sicilia]
Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: CAUC, SIB, FAR EAST]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 241(1-6) [key in Chinese]
Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 72 [ecology]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 68-69, fig 31(a-f) [checklist & revision of genus Fullania, Thailand]
Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]
Stefanut S	2020	5597	Phytotaxa 433 (1): 11-14 [oldest drawing from Loitlesberger]
Stefanut et al	2021	5908	J Bryol 43 (1): 73 [Romania]

patagonica Steph. 1910 1601

Subgenus: Trachycolea Australes

Typus: Patagonia australis /or/ Chile, Pr. Magellanes, Pto. Cutter - Chile, Canal Jer6nimo, Caleta Cutter an Baumen, Halle & Skottsberg 117, 13-IV-1908 1908, Skottsberg 703 /or/ 13.3.1908, Skottsberg 117

in hb G /or/ in hb UPS - UPS lectotypus; G isotypus (Engel 1978)

Basionym:

Distribution: Chile (Magellanes), Argentina (Patagonia)

spec nov	Stephani	1910	686	Spec Hepat 4: 428
	Stephani	1911	721	Kungl Svenska Vetenskapsakad Handl 45 (9): 88, fig 35(a-c) [as spec nov; Südpatagonien]
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 167 [Patagonia]
	Kühnemann	1949	657	Lilloa 19: 355 [Argentina: Patagonia]
	Herzog	1954	202	Rev Bryol Lichen 23: 57, fig 12 [Chile]
	Arnell	1955	6159	Svensk Botanisk Tidskrift 49: 229-237 - Hepaticae of Chile and Argentina collected by R. Santesson
	Bonner	1965	655	Index Hepat 5: 395
	Engel	1973	6158	The Bryologist 76: 528-535 - The Raymond E. Hatcher ollection of Hepaticae and Anthocerotae from southern South America
	Engel	1978	182	Fieldiana Bot 41: 241-242 [Chile: Brunswick Peninsula; new lectotype]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 96, microfiche 51 fig 3477 [from type; "Patagonia australis, Skottsberg 1908"]
	Villagran et al	2005	4527	Hepáticas y Antocerotes del Archipiélago de Chiloé: 156
	Hässel de Menéndez & Rubies	2009	2273	Nova Hedwigia, Beihefte 134 : 143
	Larrain & Vargas-Castillo	2021	5986	-In: Dominguez E, Paz Martinez M..: 171 [Region de Aysen, Chile]

patula Mitt. 1855 1603

Subgenus: Trachycolea

Typus: New Zealand. N Island, Tarawara sd, Colenso

Basionym:

Distribution: Campbell Isl [New Zealand], Snares Isl, New Zealand

spec nov	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 159-160, pl 104(1) [New Zealand]
	Hooker	1867	1154	Handbook New Zealand Flora: 535 [New Zealand. N Island]
	Stephani	1910	686	Spec Hepat 4: 413
	Hodgson	1962	658	Rec Dominian Mus 4 (11): 124 [Campbell Isl, Snares Isl]
	Bonner	1965	655	Index Hepat 5: 395-396
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Allison & Child	1975	690	Liverw New Zealand: 214-217, fig(a-c) & foto
	Hattori	1983	499	J Hatt Bot Lab 54: 156-157, fig 61
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-268ab, microfiche 54 fig 3691 ["olim Frull rupicola St nsp, N Zealandia, Ins meridion, Beckett 408, Levier 5393 acc 1908"] - 3692 ["N Zelandia, Beckett, Levier 5393"]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat, Braggins & Harris	1999	1246	Bryologist 102(2): 240-248 [new technique to investigate the capsule wall]
	Konrat & Braggins	1999	725	Trop Bryol 17: 104 [New Zealand (North Isl, South Isl); epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 107 [epiphyllous]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 442 [chemosystematic; bibenzl-type]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 3rd of 6 pages [Key to Frullania of New Zealand; throughout]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	Schäfer-Verwimp & Winter	2023	6430	Frahmia 39: 12 [with its terete and completely keel-less perianth does not belonging to sect. Irregulares]

pauciramea var. pauciramella S.Hatt. & Piippo 1986 1609

Subgenus: Trachycolea

Typus: Papua New Guinea. Morobe, Lake Wamba, 2400m sd, Koponen 34041g

in hb NICH [holotypus], in hb H, LAE [isotypus]

Basionym:

Distribution: Papua New Guinea

var nov	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 50-51, fig 4, 8
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 32: Holotype. Papua New Guinea, Morobe Prov;, Lake Wamba. 2400 m. 25 July 1981. Timo Koponen 34041a (NICH 400136).

pauciramea Steph. 1911 1605

Subgenus: Trachycolea

Typus: Papua New Guinea. Mine Bay, Mt. Dayman, 9000ft 1894, Armit jun.
in hb G 11901 [holotypus]
Basionym:

Distribution: Papua New Guinea, Indonesia (Java, Irian Jaya, Seram), Malaysia (Borneo), Australia (QLD)

spec nov	Stephani	1911	686	Spec Hepat 4: 458
	Verdoorn	1930	293	Ann Bryol Suppl 1: 56-57, fig 78
	Verdoorn	1930	549	Nova Guinea 14 (4): 542
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 56-57 [Netherl Neu Guinea]
	Verdoorn	1937	556	Blumea suppl 1: 211 [Papua]
	Bonner	1965	655	Index Hepat 5: 396
	Hattori	1966	516	J Hatt Bot Lab 65: 439 [PNG; conspecific with Fr. ornithocephala]
	Hattori	1973	542	J Hatt Bot Lab 37: 150-151
	Hattori	1973	541	J Hatt Bot Lab 37: 105-112, fig 57-61
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 76 [new zo Java]
	Hattori	1974	546	J Hatt Bot Lab 38: 245-250, fig 120-123 [syn sub Fr. ornithocephala]
	Hattori	1975	547	J Hatt Bot Lab 39: 297 [sub Fr. ornithocephala]
	Hattori	1978	482	J Hatt Bot Lab 44: 536 [comb nov; as Fr. nobilis ssp. pauciramea]
	Hattori	1982	495	J Hatt Bot Lab 51: 253-255 [Fr. pauciramea is an own species]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 112 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-167, microfiche 52 fig 3568 [from type; "Nova Guinea, Mt Dayman 9000ft, W Armit junior 1894"]
	Hattori	1986	507	J Hatt Bot Lab 60: 246 [Ceram]
	Hattori & Piippo	1988	557	Acta Bot Fennica 133: 50
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 45 [Australia (QLD)]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]

paucirameoides S.Hatt. & Piippo 1986 1610

Subgenus: Trachycolea

Typus: Papua New Guinea. Morobe, NWN of Wantoat, 1400-1550m 1981, Kaponen 29644
in hb NICH [holotypus], in hb H, LAE [isotypus]
Basionym:

Distribution: Papua New Guinea

spec nov	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 51-52, fig 4, 9, 10
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 32: Holotype. Papua New Guinea, Morobe Prov., Wantoap River. 1400-1550 m. 29 May 1981. Timo Koponen 29644 (NICH 399978).

pearceana Steph. 1911 1611

Subgenus: Meteoriopsis Intumescentes

Typus: Bolivia. Unduavi, Yungas, 10000ft -.12.1865, Pearce 259
in hb G
Basionym:

Distribution: Bolivia

spec nov	Stephani	1911	686	Spec Hepat 4: 515-516
	Bonner	1965	655	Index Hepat 5: 396
	Stotler	1969	4761	Nova Hedwigia 18: 470-471, pl 34(290-296)
	Stotler	1970	194	The genus Frullania, separata: 470-471, pl 34(290-296)
	Schuster	1985	441	Phytologia 57 (5): 370 [sect Magnistylosae - type species for nov sect]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 81, microfiche 58 fig 3990 ["Unduari, Yungas, Bolivia (Pearce) Herb Kew"]

pedicellata Steph. 1897 1612

Subgenus: Trachycolea

Typus: Japan. Honshu, Kuroishi, mars 1899, U. Faurie 230 [isotype?] Japan. Honshu, dept. Aomori, Hachinohe, avril 1899, U. Faurie 270 [isotype] sd, Inoue

in hb ,
in hb HIRO (U. Faurie 230, U. Faurie 270) [isotypuss?]

Basionym:

Distribution: Taiwan, Korea (South), Japan (Honshu, Kyushu, Shikoku), Ryukyu (Amami, Ishigaki, Kume, Okinawa), Bonin Isl (Chichijima, Hahajima, Yakushima)

spec nov	Stephani	1897	213	Bull Herb Boissier 5: 79 & 90-91 [spec nov; Japan]
	Inoue	1898	945	Bot Mag Tokyo 12: 74 [Japan]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 9 [key to Japanese species, in Japanese]
	Stephani	1910	686	Spec Hepat 4: 403 [Japan. Sd, Inoue]
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 151-152, fig 94(a-f), 95(a-f) [Japan, key to Japanese species]
	Hattori	1951	528	J Hatt Bot Lab 5: 67
	Tatuno	1952	1697	J Sci Hiroshima Univ ser B, div 2 (Bot), 6(2): 51-57 [sex chromosomes]
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 129
	Hattori	1952	529	J Hatt Bot Lab 8: 30-31
	Hattori, Iwatsuki & Kanno	1956	862	J Hatt Bot Lab 16: 92
	Inoue	1961	964	J Jap Bot 36(5): 187 [Formosa]
	Hong & Kim	1961		Hikobia 2: <244-252> [aus 717]
	Kamimura	1961	199	J Hatt Bot Lab 24: 40-41, fig 5(1-32), map 1
	Hong	1962		[aus 717]
	Bonner	1965	655	Index Hepat 5: 396
	Amakawa	1967	1931	Biol Fukuokana 7: 49
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 204 [Ryukyu Arch.]
	Inoue & Iwatsuki	1969	61	Bull Natn Sci Mus Tokyo 12 (2): 303 [Bonin Isl]
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 37 [Ryukyu: Okinawa]
	Inoue in Inoue & Iwatsuki	1970	62	Bull Natn Sci Mus Tokyo 13 (3): 478
	Shin	1970	150	Sci Rep Kagoshima Univ 19: 25-26 [Ryukyu: Amami Isl]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 134-135 [Central Japan]
	Choe	1972		J Kongju Teacher's College 10: [aus 717]
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 735 [South Korea]
	Hattori	1980	489	J Hatt Bot Lab 47: 95-97, fig 224(a-i)
	Gao & Chang	1981	1021	Fl Hep Chinae bor-orient: 152-153, fig 67(9-17) [China]
	Gao & Chang	1981	1021	Fl Hep Chinae bor-orient: 152, fig 66(1-9) [China] [auct.]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 135
	Hattori	1984	134	J Jap Bot 59 (10): 308-311 [Fr. zennoskeana similar to Fr. pedicellata]
	Aur & Zhang	1985	1022	Fl Heilongjiangensis 1: 163, fig 56(10-18) [China] =#2110
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-248, microfiche 53 fig 3668 ["Japan"]
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 288 [Korean Peninsula]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Söderström	2000	765	Lindbergia 25: 43 [China]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 35, fig 29(a-n) [Japan, keys to species; in Japanese]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 282 [with key to Japan, in Japanese]
	NN	2003	1397	Types of Nat Hist mus Hiroshima [http://www.digital-museum.hiroshima-u.ac.jp/~museum/types/pages/hepa/f/hirotypeHepaF.html]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Furuki	2006	1503	Hikobia 14: 407 [Izu Isls., Northern Izu-Mariana Arc]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

pentapleura Taylor 1846 1615

Subgenus: Trachycolea Australes

Typus: Australia. Swan River sd, J. Drummond 265 (misit Taylor 1847, c. anth + per) (Kew missit 1889)

in hb S B144263 (sd, J. Drummond 29 a, misit Taylor 1847 hb LEHMANNIANUM c. per. + male) [lectotypus by Konrat & Braggins 2001]
in hb S B144249 (1844, J. Drummond sn, hb LEHMANNI)
in hb G 18224 [isotypus ?]
in hb GLM (hb LEHMANN) 06020

Basionym:

Distribution: Australia (ACT, NSW, QLD, SA, VIC, WA), ?Tasmania, New Zealand, Auckland Isl [New Zealand]

spec nov	Taylor	1846	292	London J Bot 5: 402-403 [as "pentepleura"]
	Taylor in G., L. & N.	1847	2848	Syn Hepat: 775
	Hooker	1867	1154	Handbook New Zealand Flora: 537 [New Zealand, N Island]
	Weymouth	1903	2090	Pap Proc Roy Soc Tasmania for 1902: 125 [Tasmania]
	Stephani	1910	686	Spec Hepat 4: 414
	Bonner	1965	655	Index Hepat 5: 398
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Allison & Child	1975	690	Liverw New Zealand: 213-214, fig(a-c)
	Hattori	1979	486	J Hatt Bot Lab 46: 137-139, fig 39(a-e) from isotype
	Hattori	1983	499	J Hatt Bot Lab 54: 157-159, fig 62
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 126
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-217, microfiche 53 fig 3631 ["Australia, Swan River"]
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 180
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: NSW, QLD, SA, VIC, WA; Tasmania]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1987	400	Bryologist 90 (4): 370 [not from Lord Howe Isl]
	Hattori	1988	429	Nova Hedwigia Beih 90: 153 [Australia: QLD; Tasmanian specimens = ssp. falsa]
	Ramsay, Downing & Shofield	1990	1143	Cunninghamia 2(2): 301[Australia, NSW, Mt Tomah Bot Garden]
	Downing, Ramsay & Schofield	1991	1144	Cunninghamia 2(3): 378 [Australia, NSW, Jenolan Cave]
	Ramsay, Coveny, Brown & Brooks	1993	1142	Cunninghamia 3(1): 226 [Australia, Sydney]
	Konrat & Braggins	2001	838	J Hatt Bot Lab 91: 238-245, fig 3(a1-j6), 4(1-12) [lectotypification]
	Downing, Oldfield & Fairbairn-Wilson	2002	1145	Cunninghamia 7(3): 533 [Australia, NSW, Mt Canobolas]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 45 [Australia (ACT, NSW, QLD, SA, VIC, WA, ?TAS)]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 246 [field guide, Western Australia, South Australia, Tasmania, Victoria, Australian Capital Territory, New South Wales]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml: 3, 5 of 6 pages [Key to Frullania of New Zealand, throughout]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia WA SA QLD NSW ACT VIC ?TAS]

peruviana Gottsche 1846 [non Gottsche ex Spruce 1884] 936

Subgenus: Meteoriopsis Meteoriopsis

Typus: Peru / Mexico sd, Montagne sn / sd, Leibold sn/ sd, Lechler sn

hb Mus. Paris fol 186 - in hb MANCH 14039 [lectotypus]
paralectotypuss: Peru, leg Montagne
in hb NEES (sub Frullaniae vaginatae) - Mexico, leg Leibold sn

Basionym:

Distribution: Mexico, Guatemala, Costa Rica, Panama, Venezuela, Colombia, Peru, Ecuador, Galapagos Isls [Ecuador]

spec nov	Gottsche in G., L. & N.	1846	2849	Syn Hepat: 465-466
	Gottsche	1864	478	Ann Sci Nat Bot, ser 5, 1: 175
	Stephani	1911	686	Spec Hepat 4: 609
	Clark & Frye	1953	350	Bryologist 56: 134-137, fig 1-15 [as Fr. peruviana (LEHMANN) GOTTSCHE; difference to Fr. crinoidea]
	Herzog	1955	107	Feddes Repert 57 (1/2): 198 [Peru]
	Bonner	1965	655	Index Hepat 5: 399
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
	Mägdefrau	1983	1206	Nova Hedwigia 13: 21-22 [Colombia]
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-47, microfiche 56 fig 3840 ["Peru, Tabina, Lechler, G det"]
	van Zanten & Gradstein	1988	88	Nova Hedwigia Beih 90: 57 [experimental dispersal geography]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 45 [Mexico]
	Wolf	1993	2379	Phytocoenologia 22(1): 71 [Colombia, Epiphyte - Upper montane rain forest communities: Diplasiolejeunea pauckertii-Usnea ssp. Community]
	Wolf	1993	2379	Phytocoenologia 22(1): 72 [Colombia, Epiphyte - Upper montane rain forest communities: Oropogon bicolor-O. loxensis community]
	Wolf	1993	2379	Phytocoenologia 22(1): 58 [Colombia, Epiphyte - Upper montane rain forest communities: outer canopy, twiglet, community]
	Gradstein	1993	2265	Trop Bryol 7: 81 [Bryophyta Neotropica Exsiccata: Colombia (85), also in F]
	Wolf	1994	2384	Selbyana 16(2): 188 [Colombia, Epiphyte - canopy of Upper Mountain rain forest: preference for outer canopy communities]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Kürschner & Parolly	1998	681	Nova Hedwigia 66 (1-2): 80 [Peru]
	Gradstein	1999	5901	Mem N York Bot Gard 84: 68 [Peru, Paramos]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 1500-3700m: Colombia, Venezuela, Ecuador, Peru]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
	Holz, Gradstein & Heinrichs	2002	1404	Bryologist 105(3): 336-337 [Costa Rica]
	Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
	Uribe & Gradstein	2003	1071	Crypt Bryol 24 (3): 196 [as new lectotype of subgen Meteoriopsis]
	Holz	2003	1185	Diversity Ecology Montane Quercus Forest, Costa Rica [Dissertation]: 46, 78 [upper montane oak forest, pendant]
	Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Holz & Gradstein	2005	1408	J Biogeogr 32: 1595 [Costa Rica: Cordillera de Talamanca]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Uribe	2008	1513	Caldasia 30(1): 75-81, fig.9 & 10(map) [Monography of subgenus Meteoriopsis] [Lectotype of Meteoriopsis]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 150 [Galapagos Isl, Widespread in the archipelago, forming long, blackish festoon on trees in upper, moist evergreen woodlands and scrub, very common, 450-1100 m.]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 369, fig 10(a-n) [Colombia; synopsis of Frullaniacae & keys]
	Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 23 [Ecuador]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):214 [Panama]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Gradstein	2021	5642	Mem NY Bot Gard 121: 377, fig. 39b [key -Ecuador, Colombia]

perversa Steph. 1894 1264

Subgenus: Microfrullania Regulares

Typus: Philippines. 1870, G. Wallis

in hb G 15011 (ex hb JACK)

Basionym:

Distribution: Malaysia (Sabah), Borneo, Philippines

spec nov	Stephani	1894	228	Hedwigia 33: 165-166
	Stephani	1911	686	Spec Hepat 4: 639
	Verdoorn	1930	293	Ann Bryol Suppl 1: 136, fig 209
- comb nov	Horikawa	1943	1283	Acta Phytotax Geobot 13: 213 [comb nov: Fr. junghuhniana var. perversa]
	Bonner	1965	655	Index Hepat 5: 399
	Schuster	1970	761	J Hatt Bot Lab 33: 288 [comb nov: Neohattoria (Microfrullania) perversa]
	Hattori	1973	540	J Hatt Bot Lab 37: 57-58, fig 23
	Hattori	1974	544	J Hatt Bot Lab 38: 176-177 [Luzon]
	Hattori	1974	546	J Hatt Bot Lab 38: 241-242 [syn sub Fr. junghuhniana subsp denticulilobula]
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 83 [new to Borneo, Mt. Kinabalu; near Fr perminuta]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-56, microfiche 49 fig 3296 [from type; "Ins Philippinae, G Wallis 1870 in Physiotio repens"]

phalangiflora Steph. 1916 1622

Subgenus: Meteoriopsis Meteoriopsis

Typus: Bolivia. Comarapa "Nebelwald" 1911, T. Herzog 3794

in hb G (holotypus G sn)

Basionym:

Distribution: Bolivia, Galapagos Isls (Isabella, Santa Cruz)[Ecuador]

spec nov	Stephani in Herzog	1916	222	Biblioth Bot 87: 247, fig 200 [Bolivia]
	Stephani	1924	687	Spec Hepat 6: 550-551 [as spec nov]
	Bonner	1965	655	Index Hepat 5: 399-400
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-32, microfiche 55 fig 3814 ["Bolivia, Dr Herzog 3794 (1913)"] - 3815
	Uribe	2008	1513	Caldasia 30(1): 81-83, fig.7(distribution) & 11 [Monography of subgenus Meteoriopsis] [belongs to Meteoriopsia]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 150 [Galapagos Isl (Isabella, Santa Cruz), pendent on bark in moist evergreen woodland, 300-600 m.]
	Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):214 [Panama] = error = Fr. mirabilis [FR-0069805]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 377 [key -Ecuador]

philippinensis Steph. 1911 1624

Subgenus: Trachycolea

Typus: Philippines. Luzon, Benquet, Mt. Pulog -.1.1909, Curran, Merritt & Zschokke in hb G

Basionym:

Distribution: China (Zhejiang), Malaysia (Pahang), Philippines (Luzon), New Guinea

	Merrill	1906	1496	Philippine J Sci C, Bot 5: 311 [Philippines: Mt. Pulog]
spec nov	Stephani	1911	686	Spec Hepat 4: 468-469
	Verdoorn	1930	293	Ann Bryol Suppl 1: 55-56, fig 69-73
	Bonner	1965	655	Index Hepat 5: 400
	Hattori	1973	540	J Hatt Bot Lab 37: 69-71, fig 31-32
	Hattori	1974	544	J Hatt Bot Lab 38: <169-183> [Philippines]
	Hattori	1975	547	J Hatt Bot Lab 39: 299
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 114 [Malay Pen., Philippines (Luzon), New Guinea]
	Hu & Wang	1981		J East China Normal Univ (Nat Sci) 1981 (1): 85-104 [aus 698]
	Hattori	1982	495	J Hatt Bot Lab 51: 252 & 263
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 136 [New Caledonia]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-168, microfiche 52 fig 3569 [from type; "Luzon, in Monte Pulog, leg Curran No 16430"]
	Hattori	1986	506	J Hatt Bot Lab 60: 234 [not at New Caledonia]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
	Chuah-Petiot	2011	3242	Polish Botanical Journal 56 (1): 21 [Checklist Malaysia]

physantha Mitt. 1861 1625

Subgenus: Trachycolea

Typus: India. Khasia Mts, 2000-4000ft sd, J.D. Hooker & T. Thomson 1553

hb K 1553, in hb G

Basionym:

Distribution: China (Yunnan, Hunan, Sichuan, Xizang), India (North: West Bengal (Darjeeling), Assam, Meghalaya), Nepal, Bhutan, Sikkim, Vietnam

spec nov	Mitten	1861	574	J Linn Soc Bot 5: 121 [India: Khasi]
	Stephani	1910	686	Spec Hepat 4: 353 [as Chonanthelia]
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 40 [China] [gehört zu Trchycolea]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 489 [Himalaya]
	Verdoorn	1933	233	Ann Bryol 6: 96 [Hepat select crit, ser 5 & 6 no 293; China-Himalaya]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 204 [Darjeeling]
	Chopra	1938	1648	Proceed Indian Acad Sci, sect B, 8: 437 [Sikkim Himalayas and Bengal]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 19 [India: EH]
	Bonner	1965	655	Index Hepat 5: 400
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 527
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Hattori in Hara	1971	190	Univ Mus Univ Tokyo Bull 2: 237 [Bhutan]
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 235 [Nepal]
	Hattori & Thaithong	1977	415	Misc Bryol Lichen 7 (8): 162
	Hattori & Thaithong	1977	69	Bull Natn Sci Mus Tokyo, ser B (Bot), 3 (4): 151-154, fig 2, 3(e-g)
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 190 [Assam]
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 68 [Darjeeling]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 323 [Easter Nepal]
	Hattori in Mizutani	1979	488	J Hatt Bot Lab 46: 391 [Central Nepal]
	Nath & Udar	1984	442	Proc Indian Natn Sci Acad, B 50 (2): 229-233, pl 4(1-38) [Species with entire amphigastria]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 99, microfiche 48 fig 3210-3211 ["Himalaya Khasi Mts Hooker legit"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 142 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 196 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya, Nepal]
	Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 183 [checklist Hunan]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 124, fig. 53(3-5)
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 417-420, fig 210(1-8) [China, Yunnan]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 178
	Bai	2001	1742	Guizhou Science 19(4): 43 [China, Yunnan]
	Grims	2001	1136	Moosherbar in hb LINZ, from China [Internet]
	Bai	2002	1189	Chenia 7: 16 [Yunnan, China]
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 271-272, map 11 - Unpublished thesis.
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 19 [Nepal, 1250-2900 m]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1122-1125, fig 526(1-8) [China]
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 73-74, fig 1[map], India, Meghalaya, Eastern Himalayas]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 223(1-8) [key in Chinese]
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]

pilibracteola S.Hatt. 1977 1626

Subgenus: Diastaloba

Typus: New Caledonia.

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1977	479	J Hatt Bot Lab 43: 428-430, fig 12-13 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 136
	Hattori	1984	503	J Hatt Bot Lab 57: 420
	Hattori	1986	506	J Hatt Bot Lab 60: 224
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: Holotype. New Caledonia, Mt. Ammeri. 700 m. 29 Nov. 1950. A. Guillaumin and M. G. Baumann-Bodenheim 8906 (NICH 353847).

pilistipula Steph. 1911 1629

Subgenus: Diastaloba

Typus: New Caledonia. Mts. Koghis, 300m 20.10.1907, Franc

ex hb THERIOT, in hb G

Basionym:

Distribution: New Caledonia

spec nov	Stephani	1911	686	Spec Hepat 4: 648
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 171-172
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Bonner	1965	655	Index Hepat 5: 401
	Tixier	1972		Bull Mus Nat Hist Nat Paris, ser 3, 48 (Bot 4): 96
	Hattori	1977	479	J Hatt Bot Lab 43: 431 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 136
	Hattori	1984	503	J Hatt Bot Lab 57: 420
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-78, microfiche 49 fig 3323 [from type; "Nova Caledonia, leg Faurie, Herb Theriot ... 1918"]
	Hattori	1986	506	J Hatt Bot Lab 60: 224-226, fig 8-9

piptophylla S.Hatt. 1980 1630

Subgenus: Trachycolea

Typus: Papua New Guinea. Southern Highlands, N slope of Mt. Gilowe, 3400-3500m 1968, an Zanten 68-3490b

in hb NICH [holotypus]
in hb JE [isotypus]

Basionym:

Distribution: Papua New Guinea

spec nov	Hattori	1980	489	J Hatt Bot Lab 47: 87-90. fig 220(a-o)
	Hattori	1982	495	J Hatt Bot Lab 51: 255
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 52-53
	Schuster	1991	1151	J Hatt Bot Lab 70: 144 [sect nov; sect Piptophyllae]
	Schuster	1992	603	Hepat N America 5: 125
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33; Holotype. New Guinea, Papua, Mt. Gilower. 3400-3500 m. At base of shrubs in subalpine rainforest. 1968. B. 0. van Zanten 68-3490b (NICH 432025).

piptophylla var. minor S.Hatt. 1986 1631

Subgenus: Trachycolea

Typus: Indonesia. Ceram.

Basionym:

Distribution: Indonesia (Ceram)

var nov	Hattori	1986	507	J Hatt Bot Lab 60: 247
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: Holotype. Seram I., Manusela National Park, Wae Huhu. 2000 m. Calcaceous region. 4 Jan. 1985. H. Akiyama c-8937 (NICH 401641).

piptophylloides S.Hatt. 1980 1632

Subgenus: Trachycolea

Typus: Papua New Guinea. Southern Highlands, N-slope of Mt Gilowe, 3400-3500m 1968, van Zanten 68-3490b

in hb NICH [holotypus]
in hb JE [isotypus]

Basionym:

Distribution: Papua New Guinea

spec nov	Hattori	1980	489	J Hatt Bot Lab 47: 90-92, fig 221(a-m)
	Hattori	1982	495	J Hatt Bot Lab 51: 255-256
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Schuster	1992	603	Hepat N America 5: 125

pittieri Steph. 1892 1633

Subgenus: Meteoriopsis Intumescentes

Typus: Costa Rica. "Forets de la Palma", 1550m 18.12.1888, H. Pittier sn

in hb BR BR5040109469532 (Pittier H. sn, 18.02.1888, Costa Rica, forêts de La Palma, sur les arbres)
in hb G G00067245 - n° SIB 129384/1 - 13656 (> see fr1633.jpg

Basionym:

Distribution: Costa Rica, Panama, Peru, Colombia, Ecuador

spec nov	Stephani	1892	1927	Bull Soc Roy Bot Belg 31(1,2): 177
	Stephani	1911	686	Spec Hepat 4: 515
	Clark & Svihla	1952	342	Bryologist 55: 130-133, fig 1-15
	Herzog	1953	640	Rev Bryol Lichen 20: 129 [Costa Rica]
	Clark	1955	371	Bryologist 58: 149 [syn sub Fr. strobilantha >> Fr. macrocephala]
	Bonner	1965	655	Index Hepat 5: 402
	Stotler	1969	4761	Nova Hedwigia 18: 464-465, pl 28 (244-250)
	Stotler	1970	194	The genus Frullania, separata: 464-465, pl 28 (244-250)
	Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 83, microfiche 58 fig 3992 ["Costarica (Pittier leg)"] - 3993
	Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
	Kürschner & Parolly	1998	681	Nova Hedwigia 66 (1-2): 80 [Peru]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 180 [Checklist Panama]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 398, 416, tab 3 [Podocarpus NP, Ecuador, epiphytic]
	Parolly, Kürschner, Schäfer-Verwimp & Gradstein	2004	1170	Crypt Bryol 25 (3): 276 [Ecuador]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 94 [Ecuador; Podocarpus NP]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Howarth	2011	5110	Thesis: 253 [Peru, epiphytic cloud forest]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 369 [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):214 [Panama]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Gradstein	2021	5642	Mem NY Bot Gard 121: 377, fig. 39c,d [key -Ecuador, Colombia]

plana Sull. 1849 1634

Subgenus: Trachycolea Planae

Typus: USA. Eastern Tennessee, Chimney rocks ,on the French Broad River

Basionym:

Distribution: USA (MA CT RI NY NJ VA WV KY OH NC TN SC GA AR)

spec nov	Sullivant	1849	248	Mem Amer Acad Arts Sci, ser 2, 4 (1): 175
	Lehnert	1886	2089	Proceed Biol Soc Washington 3: 117 [Washington andd vicinity]
	Britton	1889	2441	Catalogue of plants in New Jersey [USA, New Jersey]: 347
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 19-20, pl 9(12-21)
	Barbour	1902	2233	Bryologist 5(1): 5 [USA]
	Stephani	1910	686	Spec Hepat 4: 357 [as Chonanthelia]
	Verdoorn	1928	244	Ann Crypt exot 1 (2): 219
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 740-742, fig Frp(1-15)
	Bonner	1965	655	Index Hepat 5: 402
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A-108, microfiche 48 fig 3225 ["N.York."]
	Schuster	1985	441	Phytologia 57 (5): 372 [sect Planae - type species for nov sect]
	Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 137, fig 76(1-8), map 98 [USA: NC]
	Schuster	1992	603	Hepat N America 5: 241-248, fig 813-814
	Williams	2000	763	Evansia 17(1): 35 [USA: MA]
	Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (CT MA RI)]
	Smith & Davison	2001	1256	Final rep bryophyte invent Yellow Face Land tract: 11, 15, 19 of 30 [USA (NC)]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Lyman	2003	1268	Checklist of Wisconsin bryophytes [USA]
	Miller	2004	1209	Evansia 21(3): 143 [Connecticut, USA]
	Lincoln	2008	1712	Memoir New York Bot Gard 99: 124 [New England States, USA]

planifolia Steph. 1910 254

Subgenus: Chonanthelia Pluricarinatae

Typus: Venezuela: Valencia sd, Fengler sn in hb G (ex hb GOTTSCHE) [holotypus]

Basionym:

Distribution: Costa Rica, Venezuela, Ecuador

spec nov	Stephani	1910	686	Spec Hepat 4: 337
	Bonner	1965	655	Index Hepat 5: 402
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 45, microfiche 46 fig 3133 {from type; "(Valencia) Venezuela Fendler leg"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 240-242, fig. 32, map 4 b(:283)
	Gradstein, Lücking, Morales Z. & Dauphin	1994	4	Lindbergia 19: 76-77 [Costa Rica]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 3000m: Costa Rica]
	Holz	2003	1185	Diversity Ecology Montane Quercus Forest, Costa Rica [Dissertation]: 46 [paramo]
	Holz	2004	1184	[checklist of Costa Rica; Gradstein 9732 (U, USL)] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Holz & Gradstein	2005	1408	J Biogeogr 32: 1595 [Costa Rica: Cordillera de Talamanca]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Atwood & Mamontov	2018	4982	Phytotaxa 383(2): 206-212 [Morphological comparison between Frullania clarkii, F. laxiflora and F. planifolia]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 377-378, fig. 39e [key -Ecuador, Colombia expected]

platycalyx Herzog 1952 1635

Subgenus: Incertae sedis

Typus: Argentinia. Missiones: Dep. Concepcion (San Javier ?), San Isidro "am rechten Ufer des Rio Uruguay, im Urwald, epiphyt N° 551 11.7.1933, Hossens 551

in hb JE [Hosseus 11-VII-1933]

Basionym:

Distribution: Venezuela, Brazil, Paraguay, Argentina (Missiones, Buenos Aires)

spec nov	Herzog	1952	803	Feddes Repert 55: 10-11, fig 6(a-h) [Argentina: Missiones]
	Bonner	1965	655	Index Hepat 5: 402
	Reiner	1988	1043	Bol Soc Argentina Bot 25 (3-4): 307-309, fig 1, 3(a-m) [Argentina, Prov Buenos Aires]
	Schäfer-Verwimp	1996	2783	Candollea 51: 286 [Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89 [Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Costa in Stehmann et al	2009	3591	Plantas da Floresta Atlântica: 45 [Brazil]
	Stehmann et al	2009	4225	Plantas da Floresta Atlântica: 56 [Brazil]
	Hässel de Menéndez & Rubies	2009	2273	Nova Hedwigia, Beihefte 134: 143 [Argentina]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 50 [Brazil]
	Costa in Forzza et al	2010	3616	Catálogo de plantas e fungos do Brasil: 457 [Checklist Brazil]
	Silva & Rocha	2015	4917	Pesquisas, Botanica 67: 134, fig. 2(a-g) [Brazil]
	Cañiza, Peralta & Suárez	2017	4734	Cryptogamie, Bryologie 38(4):396-397 [Paraguay]
	Oliveira et al	2018	5930	Biota Amazonia 8(2): 20 [Brazil. Maranhão]
	Menezes Batista et al	2018	4935	Acta Botanica Brasilica 32(2): 306 [Brazil]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 74-78, fig. 7 [distribution, Brazil]
	Nascimento et al	2020	5686	Check List 16(4): 983, fig 25 [Brazil, Piauí]
	Silva et al	2021	5864	Check List 17(2): 485, fig 3B, as platicalyx [[Brazil. Maranhão]
	Schäfer-Verwimp & Winter	2022	6264	J Bryology 44(1): 91 [Venezuela]

platyphylla Colenso 1889 1636

Subgenus: Incertae sedis

Typus: New Zealand. County of Waipawa, Dannevirke 1988, Colenso

Basionym:

Distribution: New Zealand

spec nov	Colenso	1889	636	Trans Proc New Zealand Inst 21: 74
	Bonner	1965	655	Index Hepat 5: 403
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]

plicata Hentschel & von Konrat 2015 2467

Subgenus: Trachycolea

Typus:

Type:—ETHIOPIA. Socorà, 5 November 1937; Irgalem, 25 November 1937 (syntypes, non vidi). Blocking name:—Frullania acutiloba Mitt

Basionym:

Distribution:

	Hentschel et alii	2015	4097	Phytotaxa 220 (2): 13 [nom. nov. pro Frullania acutiloba Gerola]

pluricarinata Gottsche 1864 255

Subgenus: Chonanthelia Pluricarinatae

Typus: Colombia: Prov. Bogota, Pena, 2700 m coll. ign.
in hb S [isotypus];
Basionym:

Distribution: Mexico, Colombia, Ecuador, Chile

Gottsche	1864	478	Ann Sci Nat Bot, ser 5, 1: 168 (No 7)
Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 67 [Chile]
Stephani	1910	686	Spec Hepat 4: 341
Massalongo	1927	1060	Atti Real Ist Veneto Sci 87 (2): 218 [Argentina, Spegazzinius legebat]
Clark & Svihla	1950	336	Bryologist 53: 121-123, fig. 1-14
Herzog	1952	444	Svensk Bot Tidskr 46 (1): 83 [Ecuador]
Bonner	1965	655	Index Hepat 5: 403
Yuzawa, Mues & Hattori	1967	509	J Hatt Bot Lab 63: 425-436 [systematics]
Winkler	1976	5	Rev Bryol Lichen 42 (3): 811 [Colombia]
Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
Yuzawa	1984	502	J Hatt Bot Lab 57: 395-396, fig. 10 [Fr. grandiloba, syn sub Fr. pluricarinata]
Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 77, microfiche 47 fig 3179 ["Bogota Lindig"] - 3180 ["Pichincha leg Spruce"]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 45 [Mexico]
Yuzawa	1991	525	J Hatt Bot Lab 70: 242-244, fig. 32, map 4 b(:283)
Gradstein	1998	4908	Monogr. Syst. Bot. Missouri Bot. Garden 68: <69-85> am4
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 1800-3350m: Colombia, Ecuador]
Uribe-M & Rangal-Ch	2000	1090	[Colombia]
León-Yánez, Gradstein & Wegner	2006	2162	Ecuador, catalogo [Ecuador]
Hässel de Menéndez & Rubies	2009	2273	Catalogue of Marchantiophyta and Anthoceratophyta of southern South America: 143 [Chile]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 369 [Colombia; synopsis of Frullaniacae & keys]
Blisard	2012	3459	Proceedings of the "Natural History of the Gila" Symposium, 2012 [Mexico]
Delgadillo-Moya & Juárez-Martínez&	2012	3828	Revista Mexicana de Biodiversidad 79: ? [Mexico]
Schäfer-Verwimp, Lehnert & Nebeli	2013	3799	Phytotaxa 128 81): 23 [Ecuador]
Gradstein, Curvertino	2015	4073	Cryptogamie Bryologie36(2): <129-141> [Chile]
Blisard & Kleinman	2015	4091	The New Mexico Botanist, Special Issue 4: 21-27 [Mexico]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [Colombia]
Atwood	2017	4713	Evansia 34 (4): 105-108 [distinctions between F. mexicana and F. pluricarinata]
Juárez-Martínez & Delgadillo-Moya	2017	4877	Revista Mexicana de Biodiversidad 88: <502-518> Mexico , key
Alvaro-Alba et al	2019	5169	Colombia
Gradstein	2020	5694	Frahmia 17: 16 [Ecuador]
Gradstein	2021	5642	Mem NY Bot Gard 121: 378, fig. 39f-h [key -Ecuador, Colombia]

pocsantha Thaithong & S.Hatt. 1977 1638

Subgenus: Trachycolea

Typus: Vietnam. North Vietnam, Montes Hoang-Lien-Son, 1600-1800m 1927/29, A. Petelot 32
in hb NICH [holotypus], in hb EGR [isotypus]
Basionym:

Distribution: Vietnam

Thaithong & Hattori	1977	69	Bull Natn Sci Mus, B (Bot) 3 (4): 149-151, fig1
Kis	2004	1377	F Hist Nat Mus Matraensis 28: 16 [isotype in EGR]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: [as pocsiantha] Holotype. Vietnam, Mt. Hoang Lien Son, Pr. opp. Sapa. 1927. A. Petelot 32 NICH (345476).
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]

polyclada Colenso 1889 1640

Subgenus: Incertae sedis

Typus: New Zealand. Whangawehi 1887, A. Hamilton

Basionym:

Distribution: New Zealand

spec nov	Colenso	1889	636	Trans Proc New Zealand Inst 21: 76
	Bonner	1965	655	Index Hepat 5: 404
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]

polyptera var. angustata (Mitt.) S.Hatt. 1975 1645

Subgenus: Trachycolea Australes

Basionym: Frullania angustata Mitt. 1861

Distribution: Sri Lanka, Nepal, ?New Caledonia

comb nov	Hattori	1975	47	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (2): 74 [comb nov for Fr angustata]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 136
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]

polyptera Taylor 1846 1641

Subgenus: Trachycolea Australes

Typus: Nepal. "on Parmelia furfuracea" 1820, Wallich

hb BESCHERELLE 231, hb G 7960

Basionym:

Distribution: China (Yunnan, Shaanxi, Guangdong), Pakistan, India (South India: Tamil Nadu (Chennai, Nilgiri Hills); North: Kashmir), Sri Lanka, Nepal, Thailand, Malaysia (Pahang)

spec nov	Taylor	1846	292	London J Bot 5: 401
	Taylor in G., L. & N.	1847	2848	Syn Hepat: 773
	Levier	1906	824	Nuovo Giorn Bot Ital NS 13: 349
	Stephani	1910	686	Spec Hepat 4: 439
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 38-39 [China)
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 489 [Himalaya]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 19 [Nepal]
	Bonner	1965	655	Index Hepat 5: 404
	Grolle	1966	843	Khumbu Himal 4: 266 [Nepal]
	Hattori	1974	545	J Hatt Bot Lab 38: 208-211, fig 98-100
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 114
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 452 [Thailand]
	Hattori	1979	129	J Jap Bot 54 (1): 24 [Sri Lanka]
	Hattori	1980	489	J Hatt Bot Lab 47: 109-111, fig 230 [specimen from Sri Lanka]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-169, microfiche 52 fig 3570 [from type; "Nepal,, Herb Bescherelle, 231"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 142-143 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Western Himalaya, Nepal; South India]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 178-179
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 397, fig 198(7-12) [China, Yunnan]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 170 [as syn sub Fr. ericoides]
	Bai	2001	1742	Guizhou Science 19(4): 43 [China, Yunnan]
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 19 [Nepal]
	Bai	2002	1189	Chenia 7: 16 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1103-1105, fig 514(7-12) [China]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: FAR EAST]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 240(7-12) [key in Chinese]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 59-61, fig 26(a-h) [checklist & revision of genus Fullania, Thailand]
	Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 417-419, fig 153(a-m) [India (Western Ghats, keys]

polysticta Lindenb. 1845 768

Subgenus: Frullania

Typus: Madeira sd, Holl (Hale ?), mis Hampe

hb KUNZE, LEHMANN & MONTAGNE; in hb S (B22635) [lectotypus/holotypus], in hb W (hb LINDENBERG 7360)[isotypus], (hb LINDENBERG 7361)[paratypus]

Basionym:

Distribution: Spain, Madeira [Portugal], Azores [Portugal], Canary Isl (Fu Go GC Hi Lz Pa Te)[Spain]

spec nov	Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 440 (No 62)
	Schiffner	1901	35	Österr Bot Zeitschr 51 (4): 118 [Canary Isl]
	Schiffner	1902	905	Hedwigia 41: 280
	Bryhn	1908	1585	Kgl Norske Vid Selks Skrift 8: 12 [Bryoph Archipel Canar, Teneriffa]
	Stephani	1911	686	Spec Hepat 4: 564-565
	Armitage	1926	866	Bryologist 29:50
	Zwickel	1932	663	Beih Bot Centralbl 49: 638 [Ozellen]
	Schiffner	1936	277	Österr Bot Zeitschr 85 (1): 21-25 [Fr. nervosa has priority about Fr. polysticta]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1238 [syn sub Fr. nervosa]
	Arnell	1961	180	Svensk Bot Tidskr 55 (2): 393 [Canary Isl] [Persson: difference between polysticta & nervosa]
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 309-310 [lectotypification; key to europa & macaronesia]
	Hattori	1972	536	J Hatt Bot Lab 35: 244-246, fig 17 [description]
	Sjögren	1975	733	Svensk Bot Tidskr 69: 258-259 [epiphyllous, Madeira]
	Grolle	1976	183	Feddes Repert 87 (3/4): 194 [types]
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 357 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 121-125, fig 30
	Eggers	1982	22	Crypt Bryol Lichen 3 (4): 289 [Macaronesia, difficulty with literature older then 1961]
	Düll	1983	620	Bryol Beitr 2: 68 [Europe & Macaronesia]
	Grolle	1983	144	J Bryol 12: 421 & 439 [checklist Europe] [polysticta =/= nervosa]
	Reinosa & Alvarez	1984	1325	Acta Cient Compostelana 21: 275 [Spain]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-199, microfiche 60 fig 4160 ["Madeira, Mandon"] - 4161 ["Madeira, Puerto, leg Dr Aurel Kramer"]
	Schwab, Schäfer-Verwimp & alii	1986	101	Bryol Beitr 6: 7 [Gomera]
	Malme	1988	625	Sommerfeltia 7: 16 [Fuerteventura, Lanzarote]
	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 257 [key to Europe & Macaronesia], fig 7
	Sim-Sim & Sergio	1991	1194	IX Simposio Nacional Bot Cript, Salamanca: 252 [Madeira]
	Kraut, Mues & Sim-Sim	1993	1247	Phytochemistry 34(1): 21-218 [chemical constituents]
	Boecker, Fischer & Lobin	1993	428	Nova Hedwigia 57 (1-2): 226 [Epiphyllous]
	Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): 5 [Canary Isl]
	Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): 5 [Canary Isl]
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 114 [key to european species]
	Sim-Sim	1997	688	Portug Acta Biol (B) 17: 53, fig 6 [Madeira]
	Sim-Sim	1999	1257	Crypt Bryol 20 (3): 227, fig 19(erratum)
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 117-120, fig 19(a-m), 20 [Portugal, Madeira]
	Tan, Geissler, Hallingbäck & Söderström	2000	1173	2000 IUCN Worldred list: 17 of 26 pages] [Vulnerable, high risk of extinction]
	Fontinha	2000	1258	Crypt Bryol 21(2): 116 [Madeira]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia] & 123-124
	Grims	2001	1136	Moosherbar in hb LINZ [Internet]
	Izquierdo Zamora	2001	2885	Lista especies silvestres Canarias, banco datos bidiversidad: 89 [Canarias H P G T C F L]
	Dierssen	2001	779	Bryophyt Bibl 56: 217 [ecology in European bryophytes]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	Gonzalez-Mancebo, Losada-Lima & McAlister	2003	1097	Bryologist 106 (3): 386-390 [host specificity in a laurel forest on Tenerife]
	Sim-Sim, Carvalho, Figueiredo, Esquivel, Fontinha, Lobo, Barroso & Pedro	2003	1210	Bocagiana 210: 5 [Madeira]
	Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]

Gonzalez-Mancebo, Romaguera, Losada-Lima & Suarez	2004	1297	Acta Oecologica 25: 159-167 [Tenerife; as epiphyt on Laurus azorica]
Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 109 [Madeira, annotated catalogue]
Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Canary Isl., Madeira]
Lima, Dirkse, Núñez & González Mancebo	2009	1262	Lista especies silvestres Canarias,108 [Canarias H P G T C F L]

ponapensis S.Hatt. & Koike 1994 1652

Subgenus: Caulisequa

Typus: Micronesia. Ponape. Mt. Nanaraut sd, Y. Horikawa 18977

in hb HIRO [holotypus]

Basionym:

Distribution: Micronesia (Ponape)

spec nov	Hattori & Koike in Koike	1994	37	J Hatt Bot Lab 75: 186-188, fig 2 [close to hypoleuca]
	Winter & Schäfer-Verwimp	2020	5742	Frahmia 19: 19 [sgen Caulisequa, key]

pran-nathii M.Dey & D.K.Singh 2008 2387

Subgenus: Trachycolea

Typus: India. Eastern Himalaya West Bengal, Darjeeling district, 2 km from Lava towards Algarah, 2100 m 15.01.2005, D. Singh & M. Dey 36108A

CAL holotypus 36108A

Basionym:

Distribution: India (Darjeeling)

	Dey & Singh	2008	1641	J Jap Bot 83 (5): 280-283, fig 1(a-r) [India]

pringlei Fulford & Sharp 1990 1938

Subgenus: Trachycolea

Basionym: Frullania spicata Steph. 1910 [hom illeg] [non (Lehm. & Lindenb.) Lehm. & Lindenb. 1845]

Distribution: Mexico

nom nov	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 45 [Mexico]

probosciphora Taylor 1846 1619

Subgenus: Trachycolea Australes

Typus: Tasmania. "Van Diemen's Land, on bark (c. per)" 1832, Gunn

in hb S B144305 (misit Taylor 1847 Syn. Hep. page 440 No 3b Herbarium Lehmannianum Fr. Verdoorn vid. 1929,)
[isotypus: Hattori 1976[[lectotypus Konrat 2000: c. per., large stylus (10 cells long x 4 cells at base); multi-keeled periant]

Basionym:

Distribution: Australia (WA, SA, QLD, NSW, ACT, VIC, SW), Tasmania, New Zealand (North Isl, South Isl)

spec nov	Taylor	1846	292	London J Bot 5: 402
	Taylor in G., L. & N.	1847	2848	Syn Hepat: 770-771
	Bastow	1888	845	Papers Proceed Roy Soc Tasmania for 1887: 264, pl 28
	Stephani	1910	686	Spec Hepat 4: 356-357 [orth var; as "proboscidiphora"] [as Chonanthelia]
	Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 135 [Tasmania]
	Bibby	1955	868	Victorian Naturalist 72: 102-103
	Bonner	1965	655	Index Hepat 5: 405
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Hattori	1979	486	J Hatt Bot Lab 46: 139 [Fr. falsa & Fr. probosciphers may be conspecific]
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 179-180, fig 123 [NSW, QLD, SA, TAS, VIC]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: NSW, SA, QLD, VIC, WA; Tasmania]
	Windolf	1987	1025	Austrobaileya 2(4): 390 [checklist Queensland]
	Hattori	1988	429	Nova Hedwigia Beih 90: 153 [syn sub Fr. pentapleura ssp. falsa]
	Ramsay, Downing & Shofield	1990	1143	Cunninghamia 2(2): 301[Australia, NSW, Mt Tomah Bot Garden]
	Downing, Ramsay & Schofield	1991	1144	Cunninghamia 2(3): 378 [Australia, NSW, Jenolan Cave]
	Downing	1992	1138	Bryologist 95(1): 9 [Australia]
	Ramsay, Coveny, Brown & Brooks	1993	1142	Cunninghamia 3(1): 226 [Australia, Sydney]
	Jarman & Fuhrer	1995	78	Mosses liverworts rainforest Tasmania: 124
	Downing, Oldfield & Selkirk	1995	1141	Cunninghamia 4(1): 135 [Australia, VIC]
	Downing & Coveny	1996	2421	Australasian bryol newsletter 34: 6 [Australia, Wee Jasper limestone]
	Jolley & Milne	1998	2423	Australasian bryol newsletter 39: 10 [Australia, Victoria, Grampians NP]
	Meagher	1999	2425	Australasian bryol newsletter 41: 8 [Tasmania, Flinders Isl.]
	Jarman & Kantvilas	2001	1157	Tasforests 13(2): 239 [Tasmania]
	Konrat & Braggins	2001	838	J Hatt Bot Lab 91: 245-250, fig 5(a1-k2), 6(1-11) [lectotypification; Australia]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 18 [initial branching appendages]
	Jarman & Kantvilas	2001	1161	Tasforests 13(2): 212 [Tasmania]
	Beckmann	2002	971	Australasian bryol Newsletter 45(May 2002): 9 [as probosciphora]
	Downing, Oldfield & Fairbairn-Wilson	2002	1145	Cunninghamia 7(3): 533 [Australia, NSW, Mt Canobolas]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 442-443 [chemosystematic; sesquiterpene lactone-type]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 246 [field guide, Western Australia, South Australia, Tasmania, Victoria, Australian Capital Territory, New South Wales]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 45 [Australia (WA, SA, QLD, NSW, ACT, VIC, Tas)]
	Grove	2004	1160	Species list for the Warra LTER site: 12 [Tasmania]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml: 3,5 of 6 pages[Key to Frullania of New Zealand; Central North Island, South Isl]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia WA SA QLD NSW ACT VIC TAS]

prominula S.Hatt. & Streimann 1985 1653

Subgenus: Trachycolea

Typus: Papua New Guinea. Morobe, 1 km SW of Aseki, 1350m sd, Streimann 12509
in hb NICH [holotypus], in hb CBG [isotypus]

Basionym:

Distribution: Papua New Guinea

spec nov	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 112-114, fig 6 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 53, fig 11
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: Holotype. New Guinea, Prov. Morobe, Aseki-Mdamna Track. 1350 m. On boulder. 22 Jan. 1981 . H. Streimann 12509 (NICH 394184).

propaginea S.Hatt. & Streimann 1985 1654

Subgenus: Trachycolea

Typus: Papua New Guinea. Morobe, near Nanti village, Upper Watut river, 830m sd, HS 13508
in hb NICH [holotypus], in hb CBG [isotypus]

Basionym:

Distribution: Papua New Guinea

spec nov	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 114-116 , fig 7 [difference to Fr. pentapleura - Australia & Fr. solanderiana - New Zealand]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: Holotype. New Guinea, Morobe Province, Nauti Village. 830 m. 28 Jan. 1981. H. Streimann 13508 (NICH 394190).

pseudericoides S.Hatt. 1982 [non S.Hatt. 1986] 1655

Subgenus: Trachycolea

Basionym: Frullania sharpii ssp. subrostrata S.Hatt. 1974

Distribution: Papua New Guinea

nom nov	Hattori	1982	495	J Hatt Bot Lab 51: 256 [nom nov]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 22 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 116 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 53

pseudoalstonii Tsudo & J.Haseg. 2006 2376

Subgenus: Frullania Microphyllae

Typus: Japan 23.11.2004, J. Hasegawa 12498
in hb NICH (holotypus)

Basionym:

Distribution: Japan

spec nov	Tsudo & Hasegawa	2006	1587	Bryol Res 9(2): 43-46 [Japan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

pseudoinflata Mamontov, Vilent & Konstant. 2020 2507

Subgenus: Frullaniopsis

Typus: RUSSIA, Irkutsk Region, Bodaibo District, valley of Vitim River, mouth of Balaganakh Brook 11 August 2014, Mamontov 464-10
holotype MHA, isotypes MO, paratypes cited.

Basionym:

Distribution:

spec nov	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 227- 231, fig 9(a-g), 10(a-i)

pseudomeyeniana S.Hatt. 1986 1658

Subgenus: Microfrullania Regulares

Typus: New Caledonia. Mt. Mou, 1100m 21.7.1982, N. Kitagawa 21422
in hb NICH [holotypus]

Basionym:

Distribution: New Caledonia

	Hattori	1986	506	J Hatt Bot Lab 60: 231-232, fig 11
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: Paratype. New Caledonia, Mont Mou. 1100 m. On tree trunk. 21 July 1982. N. Kitagawa 21507 (NICH 387611).

pseudomonocera S.Hatt. 1986 1659

Subgenus: Trachycolea Acutilobae

Typus: New Caledonia. between Boulauparis & Thio 17.8.1982, Kitagawa 22970 in hb NICH [holotypus]

Basionym:

Distribution: New Caledonia

	Hattori	1986	506	J Hatt Bot Lab 60: 216-217, fig 6
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: Holotype. New Caledonia, between Boulauparis and Thio. On tree trunk. 17 Aug. 1982. N. Kitagawa 22970 (NICH 388907).

pseudoschensiana S.Hatt. 1980 1660

Subgenus: Trachycolea

Typus: India. Assam, K. & J. Hills, Shillong Peak near Shillong, 5500ft 8.4.1965, A.J. & E. Sharp 6162 in hb NICH [holotypus], in hb TENN [isotypus]

Basionym:

Distribution: India (North: Himachal Pradesh (Simla, Dalhousie), Uttaranchal, Assam, Meghalaya), Sikkim

spec nov	Hattori	1980	489	J Hatt Bot Lab 47: 101-103, fig 227(a-k)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 179
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 283, map 11 - Unpublished thesis.
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 78-79, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: Holotype. India, Assam, at base of Shilong Peak. 5500 ft. On trunk. 8 Apr. 1965. A. J. and Evelyn Sharp 6162b (NICH 257568).

pseudoschensiana var. darjeelingensis S.Hatt. 1981 1661

Subgenus: Trachycolea

Typus: India. Kataphar by Darjeeling, 2500m -.2.1915 - -.5.19915, A.K. Gebauer in hb W 29 (sub Fr. nicholsonii VERD.) [holotypus]

Basionym:

Distribution: India (Eastern Himalayas: Megalaya), Nepal

var nov	Hattori	1981	491	J Hatt Bot Lab 49: 149-150, fig 242
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 196-198, fig 3 [perianth]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya] - new variety from Eastern Himalayas (Hattori 1981)
	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 260-262, pl 52 (1-20), map 11 - Unpublished thesis.
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 65-67, fig 1[map], 6(1-20) [India, Meghalaya, Eastern Himalayas]

ptychantha Mont. 1843 1664

Subgenus: Diastaloba Diastaloba II

Typus: Auckland Isl. sd, Hombron

in hb GLM 05951 „Cambell Island, lg Hooker, Ex hb Lehmann 53“

Basionym:

Distribution: New Zealand (North Isl, South Isl, Stewart Isl), Auckland Isl [New Zealand], Campbell Isl [New Zealand]

spec nov	Montagne	1843	470	Ann Sci Nat Bot, ser 2, 19: 257-258
	Montagne	1845	1591	Voyage au pole sud 1837-40, Paris, 3 Botanique, vol 1: 225-227 - Cryptog. Atlas pl 19(3)
	Montagne in G., L. & N.	1845	2850	Syn Hepat: 442-443
	Taylor & Hooker in Hooker	1845	839	Antarctic voyage, I. Fl Antarctica 1: 163 [as Jungermannia ptychantha] [Lord Auckland Isl]
	Taylor & Hooker in Hooker	1845	2631	The Cryptogamic botany of the Antartic voyage: 51 [as Jungermannia ptychantha] [Lord Auckland Isl]
	Hombrom & Jacquinot	1846	1593	Voyage au Pôle Sud et dans l'Océanie, sur les corvettes "l'Astrolabe" et "la Zélée". Atlas Botanique. Pl 19(3)
	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 163 [New Zealand]
	Montagne	1856	1912	Sylloge generum specierumque cryptogamaram: 84
	Hooker	1867	1154	Handbook New Zealand Flora: 537 [New Zealand, N & Middle Islands, Lord Auckland'sgroup & Campbell Isl]
	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 67 [Patagonia] ??????
	Stephani	1901	799	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (17): 32 [from South Patagonia]
	Stephani	1911	686	Spec Hepat 4: 662
	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 386-387, pl 37(23)
	Hodgson	1962	658	Rec Dominian Mus 4 (11): 124 [Auckland Isl, Campbell Isl; syn sub Fr. scandens]
	Bonner	1965	655	Index Hepat 5: 406
	Hamlin	1972	659	Rec Dominion Mus 7(19): 262 [New Zealand]
	Allison & Child	1975	690	Liverw New Zealand: 219, fig(a-c)
	Hattori	1983	499	J Hatt Bot Lab 54: 159-161, fig 63
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-96, microfiche 49 fig 3344 ["Auckland Island, Johnson leg, Original"]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 104, 105 [New Zealand (North Isl); rare epiphyllous]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 13 [initial branching appendages]
	Setzepfand	2002	1159	Epiphytische Vegetation auf Weinmannia racemosa, Neuseeland [Diss]: 118 [New Zealand]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 443 [chemosystematic; sesquiterpene lactone-bibenzyl-type]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 1st of 6 pages [Key to Frullania of New Zealand throughout, particularly in moist/wet habitats]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	Konrat, Braggins, Asakawa & Toyota	2006	1465	J H B L 100: 553-576

pulchella Herzog 1954 1668

Subgenus: Trachycolea Australes

Typus: Chile. Termas de Puychne, im Espino-Blanco-Gesträuch 27.7.1940, GH Schwabe 74/d pp

in hb JE [holotypus & isotypus] (2 specimens)

Basionym:

Distribution: Chile

spec nov	Herzog	1954	202	Rev Bryol Lichen 23: 60, fig 14
	Bonner	1965	655	Index Hepat 5: 406
	Müller & Zündorf	2007	1442	http://www2.uni-jena.de/biologie/spezbot/herbar/bryotypes/Uebersicht%20F.htm

pulogensis Steph. 1911 1673

Subgenus: Diastaloba Diastaloba I

Typus: Philippines. Luzon, Benguet, Mt. Pulog, 7000ft -.5.1909, E.D. Merrill 6418
in hb G 15402 [lectotypus], in hb G 15403 (Merrill 6141) [syntypus]

Basionym:

Distribution: Indonesia (Ceram), Philippines (Luzon), Malaysia (Sabah) [Borneo]

spec nov	Stephani	1911	686	Spec Hepat 4: 545
	Verdoorn	1930	293	Ann Bryol Suppl 1: 125-126, fig 219
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 498 [Borneo]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 207 [B.N. Borneo: Mt Kinabalu]
	Hattori	1974	545	J Hatt Bot Lab 38: 213 [belongs rather to sect. Graciles and sect. Diastaloboideae of subgen. Frullania.]
	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 156-157, fig 167 [from type]
	Hattori	1978	482	J Hatt Bot Lab 44: 553 [endemic in Luzon; Borneo specimen = Fr. mizutanii & Fr. spec]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-151, microfiche 59 fig 4090 ["Philippines (7000 feet) Mt Pulog, D Merrill 6418"]
	Hattori	1986	507	J Hatt Bot Lab 60: 247 [Seram]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo - Mt. Kinabalu]
	Tan & Engel	1990	455	Trop Bryol 2: 269 [Philippines & Borneo]
	Akiyama	2009	3691	Acta Phytotax Geobot 60(2): 118 [MNP = Manusela NP, central Seram]
	Chuah-Petit	2011	3242	Polish Bot J 56(1): 21 [IN MALAYSIA: Sabah (Menzel 1988; Frahm et al. 1990)]
	Lee & Gradstein	2021	6066	Guide to the Genera of Liverworts and Hornworts of Malaysia: 195 fig 39e

punctata Reimers 1931 1674

Subgenus: Frullania Microphylla

Typus: China. Pr. Kwangsi, Yao-shan, 4000ft 29.6.1928, Sin & Whang 610 h

Basionym:

Distribution: China (Kwangsi, Hainan)

Reimers	1931	229	Hedwigia 71 (1/2): 36-38, fig 9-10
Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 495
Zwickel	1932	663	Beih Bot Centralbl 49: 638 [Ozellen]
Verdoorn	1934	240	Ann Bryol Suppl 4: 196 [syn sub Fr. alstonii]
Bonner	1965	655	Index Hepat 5: 407
Hattori & Lin	1985	505	J Hatt Bot Lab 59: 159 [China]
Yuzawa & Hattori	1989	140	J Jap Bot 64 (2): 37-40 [close to Fr. schaefer-verwimpii]
Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]

purpurea Steph. 1911 1675

Subgenus: Diastaloba Diastaloba I

Typus: Madagascar. Maroantsetra. 1901, Mathieu 79

ex hb Cardot 76, in hb G [holotypus]

Basionym:

Distribution: Benin, Equatorial Guinea (Rio Muni), Nigeria, Sao Tome, Sierra Leone, Seychelles (Mahé Isl), Comores (Anjouan Isl), Madagascar, Mauritius

spec nov	Stephani	1911	686	Spec Hepat 4: 626-627
	Bonner	1965	655	Index Hepat 5: 407
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 77-80, fig 19(a-h)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 348 [map of Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 211 [key to Madagascar] & 219
	Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 252 [Sierra Leone]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-13, microfiche 48 fig 3241 [from type; "Madagascar (Mathieu legit) (cardot inter 76)"]
	Grolle	1995	250	Bryophyt Bibl 48: 68 [afr3]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles (Mahé Isl), Comores (Anjouan Isl), Madagascar]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 90 [Catalogue ... of Sub-Saharan Africa]
	Pocs	1997	1109	Abstracta Bot 21 (1): 127 [Seychelles, Madagascar, Mauritius]
	Sanchez & Perez	1998	700	Trop Bryol 15: 5 [Equatorial Guinea, Rio Muni]
	Konrat & Braggins	1999	725	Trop Bryol 17: 105 [Madagaskar at sea-level; epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: São Tomé, rare species]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Comores, Mauritius, Madagascar, Nigeria, Rio Muni, Sao Tome, Seychelles, Sierra Leone] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 221, fig 143(A-J) [West Africa]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Comores, Mauritius, Madagascar, Nigeria, Rio Muni, Sao Tome, Seychelles, Sierra Leone] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

pusilla Mitt. 1871 1676

Subgenus: Trachycolea

Typus: New Caledonia. Isle of Pines, Main Peal sd, Milne

in hb NY (hb MITTEN) [holotypus]
in hb WTU [isotypus]

Basionym:

Distribution: New Caledonia, Society Isl (Tahiti)

spec nov	Mitten in Seemann	1871	637	Flora Vitiensis: 417
	Stephani	1911	686	Spec Hepat 4: 675
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 163
	Verdoorn	1934	241	Ann Bryol Suppl 4: 204 [is a weak form of Fr squarrosa
	Clark	1955	374	Bryologist 58: 207-210, fig 1-15 [from type]
	Bonner	1965	655	Index Hepat 5: 408
	Hattori	1984	503	J Hatt Bot Lab 57: 426 [on type]
	Hattori	1986	506	J Hatt Bot Lab 60: 217-218
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 1-93, fig xxx [checklist & revision of genus Fullania, Thailand]

pycnantha (Hook.f. et Taylor) Gottsche, Lindenb. et Nees 1845 1682

Subgenus: Trachycolea

Basionym: Jungermannia pycnantha Hooker & Taylor 1844

Distribution: Australia (NSW, VIC), Tasmania, New Zealand

spec nov	Taylor in G., L. & N.	1845	2850	Syn Hepat: 411
	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 160 [New Zealand]
	Hooker	1867	1154	Handbook New Zealand Flora: 535 [New Zealand, N & Middle Islands]
	Stephani	1892	210	J Linn Soc Bot 29: 276-277 [variety]
	Watts	1902	1909	Proc Linn Soc New South Wales 27 (2): 494 [from New South Wales, ? vide Hattori 1983: 163]
	Weymouth	1903	2090	Pap Proc Roy Soc Tasmania for 1902: 125 [Tasmania]
	Stephani	1910	686	Spec Hepat 4: 408-409
	Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 136-137 ?from Tasmania vide Hatt 1983: 163
	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 366, pl 37(2)
	Hodgson	1972	3468	J Roy Soc New Zealand 2 (1): 110 [new synonyms]
	Hattori	1983	499	J Hatt Bot Lab 54: 161-163, fig 64 [not in New South Wales & Tasmania]
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 172 [NSW, TAS, ?VIC, New Zealand]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-269ab, microfiche 54 fig 3693 ["N Zelandia, Colenso 1357"] - 3694 ["sub Fr diffusa Co., N Zelandia, Colenso 1347"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: NSW; Tasmania]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Braggins	1999	725	Trop Bryol 17: 104 [New Zealand (North Isl); epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 443 [chemosystematic; bibenzl-type]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [Australia (NSW, VIC, TAS)]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 244 [field guide, Tasmania, New South Wales]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia NSW VIC TAS]
	Engel, von Konrat, Glenny	2023	6397	Acta Biologica Plantarum Agriensis 11(1): 251, 1-4 [New Zealand, with key]

pycnoclada Grolle 2004 2347

Subgenus: Trachycolea

Basionym:

Distribution: Fossil (Eocene) in Baltic amber, Germany

spec nov	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 25, pl. 9(a-i), 10(a-c)
	Mamontov et al	2020	5685	Bryologist 123(3): 421-430 [Rovno amber (Ukraine):]

pyricalycina Steph. 1910 1688

Subgenus: Incertae sedis

Typus: Bolivia. Rio Blanco sd, T. Herzog

hb LEVIER 5904, in hb G

Basionym:

Distribution: Bolivia

spec nov	Stephani	1910	686	Spec Hepat 4: 394-395
	Bonner	1965	655	Index Hepat 5: 408
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 71, microfiche 51 fig 3433 [from type; "Bolivia, Dr Th Herzog, Levier 5904"]

queenslandica Steph. 1910 1689

Subgenus: Trachycolea

Typus: Australia. Queensland sd, s coll

hb BROTHERUS 27, hb STEPHANI 868, in hb G 18225 [typus]

Basionym:

Distribution: Australia (QLD)

spec nov	Stephani	1910	686	Spec Hepat 4: 424-425
	Bonner	1965	655	Index Hepat 5: 409
	Hattori	1979	486	J Hatt Bot Lab 46: 139-140, fig 40(a-h) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-218, microfiche 53 fig 3632 ["Queensland, no 868, Herb Brotherius"] - 3633
	Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]

quillotensis (Nees & Mont.) Nees & Mont. 1839 1690

Subgenus: Incertae sedis

Basionym: Jubula quillotensis Nees & Mont. 1836

Distribution: Chile

comb nov	Nees & Montagne in Montagne in Alcide d'Orbigny	1839	257	d'Orbigny, Voyage l'Amerique Merid 7 (2): 70
	Nees & Montagne in G., L. & N.	1845	2850	Syn Hepat: 427
	Montagne	1850	2180	-In: Gay, C.: Historia fisica y politica de Chile: 282-283
	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 68 [Chile]
	Stephani	1910	686	Spec Hepat 4: 429-430
	Costes	1921	6160	Revista Chilena de Historia Natural 25: 131 [Chile]
	Herzog	1938	723	Arch Esc Farm Fac Ci Med Cordoba 7: 28 [Chile: Valdivia] - vide Herzog 1944 = Fr quillotensis
	Herzog	1944	4664	Acta Horti Gothoburgensis 15: 160 "Statt F. valdiviensis Jack et St. muss es F. quillotensis Mont. heissen."
	Herzog	1954	202	Rev Bryol Lichen 23: 57 [Chile]
	Arnell	1955	6159	Svensk Botanisk Tidskrift 49(1-2): 232-233
	Bonner	1965	655	Index Hepat 5: 409
	Engel	1976	5919	Annales Botanici Fennici 13: 134
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 97, microfiche 51 fig 3478 ["Chile, Talcahuano, No 175, Dusén 6/9. 96"] - 3479 ["Chile"]
	Villagran et al	2005	4527	Hepáticas y Antocerotes del Archipiélago de Chiloé. 156
	Pereira et al	2006	4753	Nova Hedwigia 83(1-2): 121 [cf. quillotensis]
	Hässel de Menéndez & Rubies	2009	2273	Nova Hedwigia, Beihefte 134 <1-673>

quillotensis fo. flaccida Herzog 1954 [nom nud.] 1949

Subgenus: Incertae sedis

Typus: Chile.Termas de Puyehue, 1939/41, Schwabe 61pp

Basionym:

Distribution: Chile

fo nov	Herzog	1954	202	Rev Bryol Lichen 23: 57

quillotensis fo. leiantha Herzog 1954 [nom.nud.] 1948

Subgenus: Incertae sedis

Typus: Chile. Tigre Zapallar, 450m 1939/41, Schwabe 228

Basionym:

Distribution: Chile

fo nov	Herzog	1954	202	Rev Bryol Lichen 23: 57

ramuligera (Nees) Mont. 1843 739

Subgenus: Caulisequa

Basionym: Jungermannia ramuligera Nees 1830

Distribution: China (Hainan, Yunnan), Taiwan, Japan, Bonin Isl, India, Sri Lanka, Thailand, Vietnam, Malaysia (Sabah), Borneo, Indonesia (Java, Ceram), Philippines, Fiji (Viti Levu)

comb nov	Montagne	1843	469	Ann Sci Nat Bot, ser 2, 18: 14 [India]
	Nees in G., L. & N.	1845	2850	Syn Hepat: 442 (No 66) [Java]
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 84-85
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 337
	Stephani	1911	686	Spec Hepat 4: 655-656 (Java)
	Verdoorn	1929	245	Ann Bryol 2: 148-149 [Java)
	Verdoorn	1930	293	Ann Bryol Suppl 1: 130-131, fig 204
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 498 [Java]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 498 [Java, Borneo]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 62 [Java]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 207-208 [B.N. Borneo: Mt Kinabalu]
	Bonner	1965	655	Index Hepat 5: 409
	Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Hattori	1972	538	J Hatt Bot Lab 36: 117-119, fig. 6
	Hattori	1974	544	J Hatt Bot Lab 38: 176 [Luzon]
	Hattori	1979	129	J Jap Bot 54 (1): 24 [Sri Lanka]
	Hattori	1980	958	Bull Natn Sci Mus Tokyo, ser B (Bot), 6 (1): 39 [Formosa]
	Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 114 [new to Taiwan]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 202 [Sri Lanka]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 136
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-80, microfiche 49 fig 3326 ["Java, Herb Alex Braun"] - 3327
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Hattori	1986	507	J Hatt Bot Lab 60: 247 [Seram]
	Menzel	1988	512	J Hatt Bot Lab 65: 164 [Cat Borneo]
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Schuster	1992	603	Hepat N America 5: 118-119 [=/ itoana]
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 209 [China: Hainan Isl]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
	Furuki	1997	1689	J Nat Hist Mus Inst Chiba 4(2): 104 [Iwo (Volcano) Islands, Northwestern Micronesia]
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 10, fig 7(a-r) [Japan, keys to species; in Japanese]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 429-431, fig 215(1-8) [China, Yunnan]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 282 [with key to Japan, in Japanese]
	Bai	2001	1742	Guizhou Science 19(4): 50 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 22 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1132-1134, fig 531(1-8) [China]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 32 [Catalog of Japan]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 246(1-8) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 18-19, fig 4(a-g) [checklist & revision of genus Fullania, Thailand]
	Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 419-421, fig 154(a-n) [India (Western Ghats, keys]

rappii A.Evans 1912 1197

Subgenus:

Typus: USA. Florida, Sanford -.6.1911, S. Rapp 18

Basionym:

Distribution:

spec nov	Evans	1912	1901	Bryologist 15: 22, fig 1-9
- syn nov	Evans	1923	865	Bryologist 26: 65-66 [syn nov sub Fr. inflata]
	Clark & Svihla	1944	311	Bryologist 47:
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 764 [sub Fr inflata]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 91--, microfiche 51 fig 3471 (no figure) [" Florida, Am sept, Bryologist 1912 p. 22"]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 173 [syn sub Fr. inflata]
	Atwood	2017	4912	https://www.mobot.org/plantscience/bfna/V3/Frullaniaceae.htm [a distinct species]
	Mamontov et al.	2020	5641	Nova Hedwigia Beiheft 150: 218 [distinct species according Atwood 2017]

recurvistipula S.Hatt. 1975 1693

Subgenus: Trachycolea

Typus: Malaysia. Malay Peninsula, Cameroon Highland, 8000ft 1.2.1962-3.2.1962, M Togashi MT c-4

in hb NICH 232553 [holotypus], in hb TNS [isotypus]

Basionym:

Distribution: Malaysia (Pahang), Indonesia (Java)

	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 114-116, fig 3
	Hattori	1986	74	Bull Natn Sci Mus Tokyo, ser B (Bot), 12 (4): 136-137
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: Holotype. Malaya, Cameron Highland. 8000 ft. 1-3 Feb. 1962. M. Togashi c-5 (NICH 232553).

reflexistipula var. squarrosa S.Hatt. & Piippo 1986 1700

Subgenus: Trachycolea

Typus: Papua New Guinea. Morobe, Lake Wamba area, 2400m 1981, Koponen 34220

in hb NICH [holotypus], in hb H, LAE [isotypus]

Basionym:

Distribution: New Guinea [Papua New Guinea]

var nov	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 54-55
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 34: Holotype. Papua New Guinea, Morobe Prof., Lake Wamba. 2400 m. On fallen trunk. 26 July 1981. T Koponen 34220 (NICH 400143).

reflexistipula Sande Lac. 1853 1695

Subgenus: Trachycolea

Typus: Java.

Basionym:

Distribution: Malaysia (Pahang, Sabah), Borneo, Indonesia (Sumatra, Java, Bangka, Ceram), Philippines (Luzon), New Guinea, Neu Caledonia, Society Isl (Tahiti)

spec nov	Sande Lacoste	1855	2038	Nederl Kruidk Arch 3: 422 < Nederlandsch kruidkundig archief >
	Sande Lacoste in Dozy	1856	564	Plagiochila sandei Dozy: 10-11
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 537
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 80, pl 15(1-13)
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 311 [Java, Ceram]
	Sande Lacoste in Veth	1884	807	Midden Sumatra, Reizen en Qnderzoekingen der Sumatra Expeditie, 4 (2): 44 [Sumatra]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 338
	Stephani	1910	686	Spec Hepat 4: 441
	Verdoorn	1929	245	Ann Bryol 2: 131
	Verdoorn	1930	293	Ann Bryol Suppl 1: 49-50, fig 30, 37, 39, 53-54
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 163
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 55 [Sumatra, Java]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 489 [Borneo]
	Verdoorn	1932	232	Ann Bryol 5: 125 [Hepat select crit, ser 3 & 4 no 162; Java]
	Verdoorn	1937	556	Blumea suppl 1: 211 [Papua]
	Bonner	1965	655	Index Hepat 5: 411
	Hattori	1973	542	J Hatt Bot Lab 37: 137-140, fig 78-79
	Hattori	1973	542	J Hatt Bot Lab 37: 151 [New Guinea]
	Hattori	1974	544	J Hatt Bot Lab 38: 180 [Luzon]
	Hattori	1974	546	J Hatt Bot Lab 38: 257
	Hattori	1975	547	J Hatt Bot Lab 39: 299
	Hattori	1976	80	J Hatt Bot Lab 40: 493
	Hattori	1982	495	J Hatt Bot Lab 51: 256-257
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 137
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 116 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-172, microfiche 52 fig 3573 ["Java"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Hattori	1986	507	J Hatt Bot Lab 60: 247 [Ceram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 54
	Hattori	1988	516	J Hatt Bot Lab 65: 442-443 [PNG]
	Menzel	1988	512	J Hatt Bot Lab 65: 164-165 [Cat Borneo]
	Ariyanti et al	2008	1886	Biological Conservation, 141, 2516-2527 [Central Sulawesi, Indonesia] Sulawesi, Indonesia
	Ariyanti et al	2009	1852	Blumea, 54, 287-289 [Sulawesi]
	Akiyama	2009	3691	Acta Phytotaxonomica et Geobotanica, 60 (2), 97-126 [Seram (Ceram) and Ambon Islands]
	Söderstöm et al	2010	2314	Phytotaxa, 9, 53-149 [Checklist Java]
	Chuah-Petiot	2011	3242	Polish Botanical Journal, 56 (1), 1-44 [Checklist Malaysia]
	Gradstein	2011	3250	Guide to the Liverworts and Hornworts of Java [Java]
	Feldberg et al	2014	3992	Scientific Reports, 4: 2014

regularis Schiffn. 1890 15

Subgenus: Homotropantha Fallaces

Typus: Neu Guinea. Indonesia, Irian Jaya, "an Bäumen" 1875, Naumann, 16

hb G 14048 [isolectotypus]

Basionym:

Distribution: New Guinea, Bismarck Arch (New Ireland [=Neumecklenburg], Lavongai [=New Hanover], D'Entrecasteaux Isl), Solomon Isl, Vanuatu (Aneityum)

	Schiffner	1889	581	Forschungsreise S.M.S. "Gazelle" 4 (4): 38, pl 8(2-5)
	Schiffner & Stephani in Schumann & Lauterbach	1901	1493	Flora Deutsch Schutzgebiete: 79
	Stephani	1911	686	Spec Hepat 4: 576-577
	Verdoorn	1928	242	Rev Bryol NS 1: 115
	Verdoorn	1930	293	Ann Bryol Suppl 1: 166-168, fig 281-285
	Verdoorn	1930	549	Nova Guinea 14 (4): 546-547
	Verdoorn	1937	556	Blumea suppl 1: 213 [N Guinea]
	Tixier	1973	678	Bull Mus Nat Hist Nat Paris, ser 3, 190, Bot 10: 82 [New Hebrides, Anotom =Vanuatu, Aneityum]
	Hattori	1980	490	J Hatt Bot Lab 47: 180-183, fig 3(a-e), 7-9
	Hattori	1982	495	J Hatt Bot Lab 51: 240-241
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-10, microfiche 54 fig 3716 [" olim Frull Naumannii St nsp, Nova Guinea, Naumann 75, Warnstorf 16"] - 3717
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 41
	Hattori in Piippo	1986	946	Ann Bot Fennici 23: 10 [Frieda River]

reicheana Steph. 1910 1701

Subgenus: Incertae sedis

Typus: Chile. Mt. Frey Jorje -.9.1904, K. Reiche 4

in hb G

Basionym:

Distribution: Chile

spec nov	Stephani	1910	686	Spec Hepat 4: 427
	Herzog	1944	4664	Meddelanden fran Göteborgs Botaniska Trädgard 15: 160 (Prov. Coquimbo : Loma Frai Jorge)
	Herzog	1954	202	Rev Bryol Lichen 23: 56-57 [N-Chile]
	Arnell	1956	881	Svensk Bot Tidskr 50 (2): 309 [Chile]
	Bonner	1965	655	Index Hepat 5: 411
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 98, microfiche 51 fig 3480 from type; "Chile, in monte Fray Jorge, Sept 1904, in cortice, Karl Reiche No 4"]
	Villagran et al in Squeo et al	2004	3673	Historia Natural del Parque Nacional Bosque Fray Jorge, p. 19

reimersii var. meijeri [nom herb in hb L L0060936 & L0060937] 2420

Subgenus: Diastaloba Diastaloba I

Typus: Malaysia/Sabah. Borneo, Tambuyokan, Gunung "N.Borneo, West Coast Res.; Mt. Tambuyokon, c. 15 miles N.E. of Kinabalu Peak; Puntjak (=summit of) Tambuyokon, c. 15 miles N.E. of Kinabalu Peak" 5/7/1961, Meijer, W. B 11170

in hb L L0060936 & L0060937 [typus] - http://145.18.162.53:81/c8?ent=300017&rec=69096&sct=1

Basionym:

Distribution:

reimersii Verd. 1930 1702

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Irian Jaya, Jayawijaya, (1) Hellwiggebirge, 2000m (2) Mt. Goliath, 1950-3000m (1) -.11.1909, S.A.M.v. Römer 1265 & 1265 (2) -.4.1911, de Kock 15

in hb FH (hb VERDOORN 9136 = Römer 1265) [lectotypus by Hattori 1973: 125]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

	Verdoorn	1930	293	Ann Bryol Suppl 1: 84-85, fig 122-124
spec nov	Verdoorn	1930	549	Nova Guinea 14 (4): 544, pl 93(14-16)
	Bonner	1965	655	Index Hepat 5: 411
	Hattori	1973	542	J Hatt Bot Lab 37: 125-126, fig 70
	Hattori	1974	546	J Hatt Bot Lab 38: 257, fig 129
	Hattori	1975	547	J Hatt Bot Lab 39: 299
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133, fig 1 = altitudinal range [PNG]

remotidens S.Hatt. 1872 1703

Subgenus: Trachycolea

Typus: Papua New Guinea. Central, NW of The Gap, 8000ft -.1.1936, Carr 15284

in hb NICH [holotypus], in hb L, NY [isotypus]

Basionym:

Distribution: New Guinea [Papua New Guinea]

	Hattori	1982	495	J Hatt Bot Lab 51: 257-260, fig 3-4
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 116 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 55
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 34: Hototype. Papua New Guinea, Main range N. W. of Gap. 8000 ft. 29 Jan. 1936. C. E. Carr 15284 (NICH 354314).

remotiloba Steph. 1894 19

Subgenus: Homotropantha Remotilobae

Typus: New Guinea 23.6.1875, Naumann, sn.

ex hb WARNSTORF 14, in hb G (hb STEPHANI 178) [holotypus], in hb FH [isotypus]

Basionym:

Distribution: New Guinea

spec nov	Stephani	1894	228	Hedwigia 33: 152
	Schiffner & Stephani in Schumann & Lauterbach	1901	1493	Flora Deutsch Schutzgebiete: 78
	Stephani	1911	686	Spec Hepat 4: 586-587
	Verdoorn	1928	242	Rev Bryol NS 1: 119-120
	Verdoorn	1930	293	Ann Bryol Suppl 1: 171-172, fig 278(:167)
	Bonner	1965	655	Index Hepat 5: 412
	Hattori	1980	490	J Hatt Bot Lab 47: 173-176, fig 3(f-j), 4(a-g)
	Hattori	1982	495	J Hatt Bot Lab 51: 241
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-30, microfiche 54 fig 3749 ["N Guinea, leg Naumann 1875, Warnstorf No 14"] - 3750
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 41

repandistipula ssp. queenslandica S.Hatt. 1987 745

Subgenus: Diastaloba Diastaloba II

Typus: Australia, Queensland 4.7.1984, H. Streimann 304817

in hb NICH [holotypus], in hb CBG, JE [isotypus]

Basionym:

Distribution: Australia (QLD)

ssp nov	Hattori	1987	402	Mem NY Bot Gard 45: 550-551
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [Australia (QLD)]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 34: Holotype. Australia, Big Tableland. 610 m. 4 July 1984. H. Streimann 30817 (NICH 403041).

repandistipula Sande Lac. 1853 743

Subgenus: Diastaloba Diastaloba II

Typus: Indonesia. Java sd, Junghuhn

in hb LEYDEN

Basionym:

Distribution: Tanzania, Madagascar, Reunion, Seychelles (Mahé Isl), Comores, Japan, Bonin Isl, Indonesia (Java, Sumatra, Ceram, Ambon)

Sande Lacoste	1855	2038	Nederl Kruidk Arch 3: 422
Sande Lacoste	1856	1894	Natuurk Tjidschr v Nederl Indie 10: 397
Sande Lacoste in Dozy	1856	564	Plagiochila sandei Dozy: 11
Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 538-539
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 85, pl 16(1-8)
Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134, fig 70(c-e)
Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134, fig 70(c-e)
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 338-339
Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134, fig 70(c-e)
Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134, fig 70(c-e)
Cavers	1907	897	Naturalist 1907 (Jan/Feb): 12, fig 1C [water sac]
Stephani	1911	686	Spec Hepat 4: 652
Verdoorn	1929	246	Ann Bryol 2: 157 & 162
Verdoorn	1930	293	Ann Bryol Suppl 1: 131-132, fig 205 - 207
Bonner	1965	655	Index Hepat 5: 413
Hattori	1973	540	J Hatt Bot Lab 37: 62-64, fig 26 & 27
Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 337 [map of Africa] [as Fr. tixierana]
Grolle	1978	285	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 27 (1): 11 [Seychellen]
Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 211 [key to Madagascar] & 214-215, fig 1
Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-81, microfiche 49 fig 3328 [from type; "Java (Junghuhn)"]
Hattori	1986	507	J Hatt Bot Lab 60: 247 [Seram]
Pocs	1992	266	Bryobrothera 1: 36, map fig 8: 42 [as afro-asian bicontinental taxon]
Furuki & Hattori	1993	3	Hikobia 11: 261.263 [Bonin Isl; Fr. curiosissima as new syn]
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles (Mahé Isl), Reunion]
Grolle	1995	250	Bryophyt Bibl 48: 68 [afr3]
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 90 [Catalogue ... of Sub-Saharan Africa]
Pocs	1997	1109	Abstracta Bot 21 (1): 127 [Seychelles, Comores, Madagascar, Reunion]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Yuzawa	2000	1659	Natural Environmental Sci Res 13: 10, fig 8(a-w) [Japan, keys to species; in Japanese]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Comores, Madagascar, Reunion, Seychelles, Tanzania] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Comores, Madagascar, Reunion, Seychelles, Tanzania] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 32 [Catalog of Japan]
Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 32, photos[Sumatra, with key]

repandistipula ssp. spinibractea S.Hatt. 1975 746

Subgenus: Diastaloba Diastaloba II

Typus: Malaysia. Sabah [N-Borneo], Mt. Kinabalu 1400-1500 m 16.5.1963, Z. Iwatsuki 303a
in hb NICH 25030a

Basionym:

Distribution: Malaysia (Terengganu, Sabah), Borneo

	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 150-152, fig 163(a-m)
	Hattori	1976	80	J Hatt Bot Lab 40: 493
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 34: Holotype. Borneo, Mt. Kinabalu, between Tenompock Pass and Kambaranga. 1400-1900 m. 16 May 1963. Z. Iwatsuki 303a (NICH 250303).

reptans var. integristipula Nicholson 1925 1707

Subgenus: Trachycolea

Typus: New Zealand. Bay of island 1874, S. Berggran 3400
in hb LD

Basionym:

Distribution: New Zealand

var nov	Nicholson	1925	867	Bryologist 28: 19
	Bonner	1965	655	Index Hepat 5: 414

retusa Mitt. 1861 1710

Subgenus: Trachycolea

Typus: India. Kumaon Hills, Dwali, 8500ft sd, Strachey & Winterbottom s.n.
ex hb K, in hb G 15961

Basionym:

Distribution: Himalayas, Nepal, India (North: Himachal Pradesh (Simla), Uttaranchal, West Bengal (Darjeeling), Assam, Meghalaya), Sikkim, Bhutan, Thailand

spec nov	Mitten	1861	574	J Linn Soc Bot 5: 119-120 [India: Kumaon]
	Stephani	1910	686	Spec Hepat 4: 448
	Kashyap	1932	226	Liverworts of the western Himalayas, Part 2: 13, pl 1(6-9)
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 489 [Himalaya]
	Verdoorn	1933	233	Ann Bryol 6: 96 [Hepat select crit, ser 5 & 6 no 294-295; India]
	Chopra	1938	1648	Proceed Indian Acad Sci, sect B, 8: 437 [Sikkim Himalayas and Bengal]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 19 [India: EH WH]
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 527
	Hattori in Hara	1971	190	Univ Mus Univ Tokyo Bull 2: 237 [Bhutan]
	Hattori	1973	541	J Hatt Bot Lab 37: 96-97, fig 51 [from type]
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 235 [Nepal]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 452 [Thailand]
	Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 131 [India]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 190-191 [Mussoorie, Darjeeling]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 323 [Easter Nepal]
	Nath & Udar	1984	442	Proc Indian natn Sci Acad, B 50 (2): 226-228, pl 2(1-54)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-173, microfiche 52 fig 3574 [from type; "Himalaya, Kumaon Dwali 8500ft, Original"]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 198 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Western Himalaya, Eastern Himalaya, Nepal]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 179, fig 166(a-g)
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 420
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 19 [Nepal, 1270-3650 m]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 48-50, fig 20(a-j) [checklist & revision of genus Fullania, Thailand]

retusa var. gymnantha S.Hatt. & Thaithong 1978 1712

Subgenus: Trachycolea

Basionym:

Distribution: Himalayas (W), India (North: Uttaranchal (Almora, Mussoori), West Bengal (Darjeeling))

	Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 131-132
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya] - new variety from Eastern Himalayas (Hattori & Thaitong 1978)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 180
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 34: Holotype. India, Himalaya, Almora. 3350 m. On tree. Sept. 1965. Parihar 1965-1/120 (NICH 314465).

rhystocolea Herzog 1930 1714

Subgenus: Trachycolea

Typus: China. Yunnan bor.-occid, Akalu, in montis Yúlang-schan prope urbem Lidjiang (Likiang) regione calide temperata supra vie et Kalu, 2700m 26.6.1915, Handel-Mazzetti 7001

in hb JE [holotypus & syntypus]

Basionym:

Distribution: China (Yunnan, Sichuan, Xizang), India, Bhutan

	Herzog in Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 39, fig 14(9-10)
	Hattori	1974	545	J Hatt Bot Lab 38: 201-203, fig 95(a-k) [from type]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 143 [Bhutan, China]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [Sichuan]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 124, fig. 55(1-3)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 180-181, fig 167(a-f)
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 389-392, fig 195(1-9) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 43 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 17 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1097-1099, fig 511(1-9) [China]
	Zhu	2006	1840	New checklist of Chinese liverworts, homworts, and takakiophytes [China]
	Müller & Zündorf	2007	1442	http://www2.uni-jena.de/biologie/spezbot/herbar/bryotypes/Uebersicht%20F.htm
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 232(1-9) [key in Chinese]
	Rawat & Verma	2014	4227	Frahmia 8: India [AR: Tawang, on way to Bomdir village

rhytidantha S.Hatt. 1980 1716

Subgenus: Trachycolea

Typus: India. Assam, K. & J. Hills, at Elephant Falls near Shillong, 5000ft 8.4.1965, A.J. & Evelyn Sharp 6131b

in hb NICH [holotypus], in hb TENN [isotypus]

Basionym:

Distribution: China (Yunnan), India (North: Assam, Meghalaya (Shillong))

spec nov	Hattori	1980	489	J Hatt Bot Lab 47: 97-99, fig 225(a-o)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 181
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 389, fig 194(1-8) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 43-45, fig 8(1-8) [China, Yunnan]
	Bai	2002	1189	Chenia 7: 17, fig 8(1-8) [Yunnan, China]
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 281-282, map 11 - Unpublished thesis.
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1097, fig 510(1-8) [China]
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 78, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 33: [as rhystiantha] Holotype. India, Assam, near Schillong. 5000 ft. On boulder. 8 Apr. 1965. A. J. & Evelyn Sharp 6131 b (NICH 257551).
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 236(1-8) [key in Chinese]

riclefgrollei Mamontov, Heinrichs, Schäf.-Verw., Ignatov & Perkovsky 2015 2480

Subgenus: Frullania

Basionym:

Distribution:

		2015		Rev. Palaeobot. Palynol. 223: 32
	Feldberg et al.	2021	5972	Bry Div Evo 43(1): 37

rigescens Spruce 1884 1717

Subgenus: Meteoriopsis Intumescentes

Typus: Peru."Peruvian Andes", Mt. Lames, 750m sd, Spruce sn

in hb US
in hb MANCH
in hb E E00293861 - E00002575 [isotypus]

Basionym:

Distribution: Peru, Bolivia

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 45 & 52
	Stephani	1911	686	Spec Hepat 4: 504-505
	Bonner	1965	655	Index Hepat 5: 415
	Stotler	1969	4761	Nova Hedwigia 18: 462-463, pl 26(226-234)
	Stotler	1970	194	The genus Frullania, separata: 462-463, pl 26(226-234)
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 86, microfiche 58 fig 3997 ["Andes Peruvianai, in Monte Lamas (leg Spruce)"] - 3998
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 25 of 35 [in hb US]

rigida Steph. 1910 1718

Subgenus: Trachycolea

Typus: Madagascar. 1889, F. Rodriquez 14

e hb CORBIERE 131, in hb G 13671 [holotypus]

Basionym:

Distribution: Madagascar

spec nov	Stephani	1910	686	Spec Hepat 4: 371
	Bonner	1965	655	Index Hepat 5: 415
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 136-138, fig 34(A-G)
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 214 [? type from Madagascar]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 34, microfiche 50 fig 3386 [from type; "Madagascar, F Rodriquez 14, 1889, Corbiere 131"]
	Grolle	1995	250	Bryophyt Bibl 48: 68 [afr3]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Madagascar] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Madagascar] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

ringens Spruce 1884 298

Subgenus: Chonanthelia Cladocarpicae

Typus: Ecuador. Chimborazo, Mt. Chimborazo, 1200 m sd, Spruce sn

in hb G [isotypus], in hb US
in hb E E00002576 - E00293862 [isotypus]

Basionym:

Distribution: Ecuador, Colombia

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 11-12 & 17-18 (No 5)
	Cavers	1907	897	Naturalist 1907 (Jan/Feb): 12, fig 1D [water sac]
	Stephani	1910	686	Spec Hepat 4: 335-336
	Bonner	1965	655	Index Hepat 5: 415
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 47, microfiche 47 fig 3136-3137 [from type; "Cimborazo leg Spruce"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 261-263, fig. 41, map 6 a(:285)
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 26 of 35 [in hb US]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 369 [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
	Gradstein	2021	5642	Mem NY Bot Gard 121: 378 [key -Ecuador, Colombia]

rio-janeirensis (Raddi) Ångstr. 1876 264

Subgenus: Chonanthelia Cladocarpicae

Typus:

Basionym: Frullanoides rio-janeirensis Raddi 1822

Distribution: Cameroon, Democratic Republic of Congo, Gabon, Ghana, Guinea, Nigeria, Principe, Sao Tome, Tanzania, USA (FL), Mexico, Belize, Guatemala, Costa Rica, Cocos Isl [Costa Rica], Panama, Cuba, Puerto Rico, Jamaica, Dominica, Dominican Rep, Guadeloupe, Martinique, Venezuela, Colombia, Ecuador, Galapagos Isls (San Cristóbal)[Ecuador], Peru, Guyana, Surinam, French Guiana, Brazil, Paraguay, Argentina, Chile, China (Yunnan), Taiwan, India (South), Sri Lanka, Vietnam, Thailand, Burma, Indonesia (Sumatra, Java, Bali, Sulawesi), Philippines, New Guinea

Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 88 [Brazil]
Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 13 & 23 (No 11)
Spruce	1888	1061	Rev Bryol 15 (3): 33 [Rio Janeiro]
Stephani	1888	938	Hedwigia 27: 280 [Puerto Rico]
Stephani	1897	1059	Bihang Kgl Sv Vetensk-Akad Handl bot 23 III (2): 20 [Brazil]
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 339-341
Duss	1904	3132	Flore Cryptogamique des Antilles Françaises: 131 [Martinique]
Stephani	1910	686	Spec Hepat 4: 329
Evans	1911	1892	Bulletin Torrey Botanical Club 38: 220
Massalongo	1911	903	Rev Bryol 38: 11 [Brasil]
Irmscher	1914		vide 483: 997
Evans in Britton & Millspaugh	1920	1094	Bahama Flora: 520 [Bahamas]
Pagan	1939	931	Bryologist 42: 80 [Puerto Rico]
Pagán	1942	3152	Bryologist 45(4): 109 [Guadeloupe]
Clark & Svihla	1945	314	Bryologist 48: 56-59, fig. 1-16
Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 778-780, fig. [= Fr. arietina]
Clark & Svihla	1948	325	Bryologist 51: 26 [key to Fr. of Middle America: Florida, Mexico (British Honduras), Guatemala, Costa Rica, Panama (Bahama Islands), Puerto Rico (Trinidad, Brazil, Peru, Galapagos Islands, Chile)]
Herzog	1952	803	Feddes Repert 55: 10 [Argentina; Iguazú]
Clark	1953	1106	Proc California Acad Sci 4 ser, 27 (18): 663 [Galapagos Isls: Santa Cruz, Cocos Isl]
Svihla	1956	380	Bryologist 59: 278-279 [= Fr. galatea]
Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
Bartram & Arnell	1961	932	Bryologist 64: 249 [Galapagos Isls: San Cristóbal]
Arnell	1962	449	Svensk Bot Tidskr 56 (2): 341 [Ecuador]
Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 84-85 [Brazil]
Robinson	1967	771	Bryologist 70: 51 [Colombia]
Winkler	1976	5	Rev Bryol Lichen 42 (3): 811 [Colombia]
Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 362 [map of Africa] [as Fr. africana]
Gradstein, Cleef & Fulford	1977		vide 483: 396
Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 66 [Burma specimens = Fr. galeata]
Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia]
Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 92-95, pl 15, map 14,[Brasil, Rio Grande do Sul] sub Fr. arietina]
Haarbrink	1981	49	Lindbergia 7 (1): 54-56, fig. 4 [Colombia, High Andes]
Gradstein & Weber	1982	496	J Hatt Bot Lab 52: 148 [on 6 Galapagos Isls]
Yano	1984	501	J Hatt Bot Lab 56: 506 [checklist Brazil]
Menzel	1984	142	Willdenowia 14: 490 [Peru]
Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 48, microfiche 47 fig 3138 ["Fr. riojaneirensis olim Fr. sebastianopolitana ... Pabst"]
Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 116 [New Guinea]
Hattori & Lin	1985	505	J Hatt Bot Lab 59: 152 [China]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 56
Hegewald & Zanten	1986	508	J Hatt Bot Lab 60: 209 [Bali]
Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
Hattori	1988	516	J Hatt Bot Lab 65: 443 [PNG]
van Zanten & Gradstein	1988	88	Nova Hedwigia Beih 90: 57-58 [experimental dispersal geography]
Gradstein	1989	20	Bryologist 92 (3): 338 [Key to spec of Puerto Rico & Virgin Isl]
Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 209 [Guianas]
Cornelissen & Gradstein	1990	729	Trop Bryol 3 (2): 33 [Guyana]
Visnadi & Monteiro	1990	1293	Hoehnea 17(1): 74 [Brazil; Cidade de Rio Claro, Sao Paulo]
Pôrto	1990	77	Crypt Bryol Lichen 11 (2): 123, fig. 3 [Brazil]
Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 45 [Mexico]

Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
Yuzawa	1991	525	J Hatt Bot Lab 70: 252-257, fig. 37, map 1 b(:280)
Schäfer-Verwimp	1991	523	J Hatt Bot Lab 69: 153 [Brazil]
Schuster	1992	603	Hepat N America 5: 254-261, fig. 815(1.3), 816-817 [scarcely separable phenotype: arietina & riojaneirensis, with key]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Gradstein	1993	2265	Trop Bryol 7: 81 [Bryophyta Neotropica Exsiccata: Guyana (137), also in F]
Wolf	1993	2380	Phytocoenologia 22(1): 35-36 [Colombia, Epiphyte - Lower montane rain forest communities: Cheilolejeunea trifaria-Schlotheimia angustifolia community]
Wolf	1993	2380	Phytocoenologia 22(1): 24 [Colombia, Epiphyte - Lower montane rain forest communities: accompaning taxa with preference for the Lower Mountain Rain forest]
Wolf	1993	2380	Phytocoenologia 22(1): 38-40 [Colombia, Epiphyte - Lower montane rain forest communities: Hypotrachyna imbricatula-Rimelia reticulata community]
Lisboa	1994	755	Bot Mus Para Emilio Goeldi, ser Bot, 3. ser, 10 (1): 39-40, fig 18(a-d)
Yano	1995	2095	J Hatt Bot Lab 78: 142 [annotated checklist of Brazil]
Sillett. Gradstein & Griffin III	1995	2855	The Bryologist 98: 251-260 [Catalogue of Costa Rica]
Porto & Bezerra	1996	751	Acta bot bras 10 (1): 95-96 [Brasil]
Whittemore & Allen	1996	653	Bryologist 99 (1): 65 [Belize]
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 90-91 [Catalogue ... of Sub-Saharan Africa]
Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [Guyana, Surinam, French Guiana]
Boas-Bastos & Bastos	1998	702	Trop Bryol 15: 103 [Brazil, Bahia]
Kürschner & Parolly	1998	681	Nova Hedwigia 66 (1-2): 80 [Peru]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 180 [Checklist Panama]
Leon, Pocs & Rico	1998	706	Crypt Bryol Lichen 19 (1): 15 [Venezuela, Andes]
Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
Yano & de Mello	1999	919	Iheringia, ser Bot 52: 80-81 [Brasil]
Dauphin	1999	1087	Rev Biol Trop 47 (3): 323 [Cocos Isl, Costa Rica]
Gradstein	1999	1215	Bryobrothera 5: 85 [Colombia on cacao trees]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 423, fig 212(9-13) [China, Yunnan]
Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 29-30, fig 13(k-r) [Rio de Janeiro, Brazil]
Gradstein, Griffin III, Morales & Nadkarni	2000	1405	Caldasia 23(1): 208 [Costa Rica: Monteverde]
Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445 [Colombia]
Bapna & Kachroo	2000	712	Hepaticology in India II: 186
Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: Príncipe, São Tomé]
Molinara & Costa	2001	1086	Rodriguesia 52 (81): 38 [Species of arboretum, Bot Gard of Rio de Janeira]
Merwin, Gradstein & Nadkarni	2001	1075	Trop Bryol 20: 67 [Montverde, Costa Rica]
Grims	2001	1136	Moosherbar in hb LINZ, from Brasilien [Internet]
Molinario & Costa	2001	1086	Rodriguesia 52 (81): 113 [Brazil, Bot Gard in Rio de Janeiro]
Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 81 & 93 [Brazil]
Bai	2002	1189	Chenia 7: 21 [Yunnan, China]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 29 [Cameroun, gab, Ghana, gui, Nigeria, pri, Sao Tome, Tanzania, Togo, DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Drehwald	2003	2813	Cambios en la vegetación briofítica: 288 [Peru (Parque nacional Manu)]
Srivastana & Alam	2003	1324	Geophytology 33: 47-51 [India]
Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89, fig 24(f-h) [Brazil] [The name F. obscura, however, is the older of the two and has priority if the synonymy is correct]
Gao & Lai	2003	1441	Illustrations Bryophytes China: 1127, fig 528(9-13) [China]
Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132

Wigginton	2004	1172	Sript Bot Belg 30: 226-227, fig 148(A-L) [West Africa]
Porto, Germano & Borges	2004	1446	Brejos de Altitude em Pernambuco e Paraiba: 83 [Brazil]
Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 393, 402, 416, tab 2 [Podocarpus NP, Ecuador, epiphytic]
Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [Cameroun, Gabon, Ghana, Guinea, Nigeria, Principe, Sao Tome, Tanzania, Togo, DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
Yano & Camara	2004	1292	Acta Amazonica 34(4): 455 [Brazil: Manaus, Rio Clara, Belem, Salvador]
Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
Andersson & Gradstein	2005	1392	Biodiv Conserv 14: 1108 [Ecuador, cacao planation]
Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 284 [Rio de Janeiro State, Brazil]
Martinez	2005	2307	Cuba: Parque Nacional Alejandro de Humboldt", p. 222
Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
Peralta & Yano	2005	1488	Acta bot bras 19(4): 971 [Brazil, Sao Paulo]
Germana & Porto	2005	1357	Trop Bryology 26: 3, 7 [Brazil; Pernambuco]
Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 94 [Ecuador; Podocarpus NP]
Camara, Oliveira & Santiago	2005	1359	Trop Bryology 26: 137 [Brazil; Distrito Federal Brasilia]
Gradstein	2006	1401	Crypt Bryol 27(1): 147, 150 [French Guiana: lowland cloud forest]
Yano & Porto	2006	1462	Hoehnea 33(1): 24 [Matas serranas do Ceara, Brasil]
Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Pantropical]
Oliveira & Alves	2007	1449	Rodriguesia 58(1): 3 [Brazil]
Romanski	2007	3866	Thesis [Peru, epiphytic in lower montane rainforest]
Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
Gradstein & Ilkiu-Borges	2009	1920	Mem New York Bot Gard 76(4): 46-47, fig 26(d-f) [French Guiana]
Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 385 [Dominican Republic, new to Hispaniola]
Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 244(9-13) [key in Chinese]
Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 50 [Brazil]
Schäfer-Verwimp	2010	2460	Crypt Bryol 31(4): 347 [Dominica, West Indies]
Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
Gradstein & Uribe	2011	3230	Caldasia 33(2): 369 [Colombia; synopsis of Frullaniacae & keys]
Romanski et al.	2011	3486	Supplementary list to Bryologist 114(4): <720-731> [Peru]
Benitez & Gradstein	2011	5134	Cryptogamie, Bryologie 32(1): 68 [Ecuador: nueva para El Oro., Poza Onda, bosque semipeciduo montano bajo]
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe], 251 [Martinique]
Gradstein & Ziemmeck	2012	4845	Checklist of Galapagos Horn- Liverworts [Galapagos]
Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 24 [Ecuador]
Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
Cañiza, Peralta & Suárez	2017	4734	Cryptogamie, Bryologie 38(4):397 [Paraguay]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 13-15, fig 2(a-g) [checklist & revision of genus Fullania, Thailand]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 33, photos [Sumatra, with key]
Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
Lima	2019	5121	Frullania no Brasil [Thesis]: 79-85, fig. 7 [distribution]
Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 421-423, fig 155(a-j) [India (Western Ghats, keys]
Gradstein	2020		[in press] as var. rio-janeirensis
Gradstein	2021	5642	Mem NY Bot Gard 121: 378-379, fig. 39i,j [key -Ecuador, Colombia]

rio-janeirensis var. megalostipa (Spruce) Gradstein 2020 2503

Subgenus: Chonanthelia Cladocarpicae

Basionym: Frullania megalostipa Spruce 1884

Distribution: Ecuador, Bolivia

invalid	Gradstein	2020		Frahmia 17: 16 [invalid, no reference to the publication of the basionym]
comb nov	Gradstein	2021	5642	Mem NY Bot Gard 121: 379 [key -Ecuador]

riparia Hampe 1838 1719

Subgenus: Trachycolea

Typus: USA. Virginia, "ad rupes madidas" 22.9.1833, C. Beyrich

in hb S-PA [lectotypus by GROLLE 1970]

Basionym:

Distribution: Bulgaria, Slovenia, Spain, Italy, Austria, Bulgaria, France, Switzerland, Norway, Canary Isl, Canada, USA (NH VT MA CO NM CT NY NJ PA DC WV VA NC TN AL FL IL OH KY IN WI MN IA KS AR OK TX), Mexico, Revillagigedo Isls [Mexico], Nicaragua, Peru, ?? India

spec nov	Hampe in Lehmann	1838	588	Pugillus 7: 14-15 [USA, Virgiia]
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 13-14, pl 5 [North America]
	Barbour	1902	2233	Bryologist 5(1): 4 [USA: From New England westward to Minnesota and southward to Gulf of Mexico.]
	Stephani	1910	686	Spec Hepat 4: 433-434 [America septentr., New England, Minnesota usque ad sinum mexicanum]
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 629-631, fig 177(a-e) & 802 [also in China]
	Dismier	1921	1338	Rev Bryol 47: 24-25 [France]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 774-776, fig Fr.r.(1-8)
	Clark & Svihla	1948	325	Bryologist 51: 26 [key to Fr. of Middle America: United States, Mexico]
	Clark	1953	1106	Proc California Acad Sci 4 ser, 27 (18): 663 [Mexico: Revillagigedo Isls: Soccoro, Nicaragua]
	Schuster	1953	604	Amer Midl Nat 49 (2): 568-569, pl 71(5-8) [Minnesota and Adjacent Regions]
	McGregor	1955	2240	Univ Kansas Sci, Bull 37(3): 82-83 [USA, Kansas - frequent]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1252-1253, fig 488(a-e)
	Arnell	1961	54	Bot Not 114 (2): 177 [Cape Verde Island]
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 316 [lectotypification; not found on Canary Isl & Cape Verde Isl]
	Maurer	1970	114	Herzogia 1: 449 [Austria, Flaumeichenbestände bei Graz]
	Kamimura	1971	3708	Bull Kochi Gakuen J Coll 2: 28 [USA, Texas]
	Grolle	1976	183	Feddes Repert 87 (3/4): 194 [types]
	Düll	1983	620	Bryol Beitr 2: 68 [Europe & Macaronesia]
	Grolle	1983	144	J Bryol 12: 421 [checklist Europe]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 90c, microfiche 51 fig 3468 ["Am sept, Evans p 13, tab V"]
	Bisang	1985	102	Bot Helvetica 95 (2): 247-278, map [Switzerland]
	Hattori	1987	400	Bryologist 90 (4): 370 [not from Lord Howe Isl]
	Hong	1989	689	Bryologist 92 (3): 366 [key to N-American species]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 45 [Mexico]
	Crum	1991	1018	Liverw Hornw Southern Michigan: 100-101, fig 94e [USA, Michigan]
	Hicks	1992	1057	Guide Liverwort N Carolina, Durham: 136, fig 75(1-6), map 97 [USA: North Carolina]
	Schuster	1992	603	Hepat N America 5: 176-185, fig 776(1-4), 801-802
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya, Western Himalaya]
	Timme & Redfearn	1997	631	http://science.smsu.edu/~csre/herbarium/liverw_t.htm [4.6.97] printed 15.1.98 12:34 page 3 of 6 [USA]
	Timme & Redfearn	1997	748	Evansia 14(3): 95
	Timme & Redfearn	1997	1134	http://biology.smsu.edu/herbarium/liverw_t.htm [printed 20.6.2004 page 10 of 19; USA]
	Sim-Sim, Lloret & Grolle	1999	726	Nova Hedwigia 68: 220 [characters of Fr. muscicola, riparia, cesatiana, azorica]
	Pavletic, Martincic & Duell	1999	1045	Contrib Bryofl Yugoslavia Bulgaria: 9 [Slovenia]
	Ganeva & Duell	1999	1046	Contrib Bryofl Yugoslavia Bulgaria: 118 [Bulgaria]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-61 [key to European & Macaronesian species (1st ed)]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 197
	Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (CT MA NH VT)]
	Dierssen	2001	779	Bryophyt Bibl 56: 217 [ecology in European bryophytes]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	Lyman	2003	1268	Checklist of Wisconsin bryophytes [USA]
	Ganeva & Natcheva	2003	1299	Crypt Bryol 24 (3): 231 [Bulgaria]
	Weber & Wittmann	2003	1017	http://spot.colorado.edu/~weberw/hepatics2003.pdf, p. 26 [USA, Colorado]

	Wigginton	2004	1312	Trop Bryol Res Rep 5: 31 [errorously for Cape Verde Isl] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
	Cleavitt	2004	1167	Evansia 21 (2): 53 [USA, New Hampshire]
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Bulgaria, Baleares, Spain, France, Italy, Slovenia]
	Lincoln	2008	1712	Memoir New York Bot Gard 99: 123 [New England States, USA]
	Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 72 [ecology]
	Singh	2016	4561	India [ML: Khasi Hills (Mitten, 1861 as F. aeolotis)-
	Rodriquez et al.	2017	4629	Arnaldoa 24(1): 255 [Peru, La Libertad]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 125-127, fig. 14 [distribution in Brasil]
	Mamontov et al	2020	5641	Nova Hedwigia, Beiheft 150, p. 201-242 [as Fr wrightii, belong to subg. Frullaniopsis subgen. nov.]

rizalli Piippo & S.Hatt. 1992 1731

Subgenus: Trachycolea

Typus: Philippines. Luzon 1977, Alvarez et alii

in hb UPLB [0-771189=holotypus, 0-771185=paratypus]

Basionym:

Distribution: Philippines (Luzon)

	Piippo & Hattori in Piippo & Tan	1992	19	J Hatt Bot Lab 72: 119-121, fig 2 [related to Fr. berthoumieui]
	Piippo & Hattori in Piippo & Tan	1992	19	J Hatt Bot Lab 72: 119-121, fig 2 [close to berthoumieri]

rostellata Mitt. 1867 1734

Subgenus: Trachycolea

Typus: New Zealand. N Island sd, Sinclair

ex hb K, in hb G

Basionym:

Distribution: Tasmania, New Zealand

spec nov	Mitten in Hooker	1867	1154	Handbook New Zealand Flora: 755 [as Fr rostellata] [New Zealand, N Island]
	Stephani	1910	686	Spec Hepat 4: 410-411
	Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 136
	Bonner	1965	655	Index Hepat 5: 417
	Hamlin	1972	659	Rec Dominion Mus 7(19): 263 [New Zealand]
	Hattori	1979	486	J Hatt Bot Lab 46: 140-142, fig 41(a-i)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-271, microfiche 54 fig 3696 ["N Zealand Ins sept, leg Sinclair, (Herb Kew)"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Tasmania]
	Schuster	1992	603	Hepat N America 5: 125
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 443 [chemosystematic; sesquiterpene lactone-type]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [Australia (TAS)]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 4th of 6 pages[Key to Frullania of New Zealand]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia TAS]

rostrata (Hook.f. & Taylor) Gottsche, Lindenb. & Nees 1845 1735

Subgenus: Microfrullania Regulares

Basionym: Jungermannia rostrata Hooker & Taylor 1845

Distribution: Australia (NSW, QLD, VIC, ACT), Tasmania, New Zealand, Auckland Isl [New Zealand], Antipode Isl [New Zealand], Campbell Isl [New Zealand], Macquarie Isl [Australia]

Hooker & Taylor in G., L. & N.	1845	2850	Syn Hepat: 445-446
Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 162
Hooker	1867	1154	Handbook New Zealand Flora: 538 [Lord Auckland's group]
Ångström	1872	577	Öfversigt K Vetensk Akad Förh 29 (4): 12 [auct; synonym with Fr. magellanica]
Stephani	1911	686	Spec Hepat 4: 661
Pearson	1923	796	Univ California Publ Bot 10 (4): 327 [New Zealand]
Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 383
Hodgson	1962	658	Rec Dominian Mus 4 (11): 124-125 [Auckland Isl, Campbell Isl]
Bonner	1965	655	Index Hepat 5: 417
Hamlin	1972	659	Rec Dominion Mus 7(19): 263 [New Zealand]
Hamlin	1972	659	Records of the Dominion Museum 7 (19):
Allison & Child	1975	690	Liverw New Zealand: 218-219, fig(a-c)
Hattori	1976	68	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (3): 79-80
Hattori	1979	485	J Hatt Bot Lab 45: 352-353, fig 21(a-h) from original of Fr. minutissima
Hattori & Mizutani	1982	495	J Hatt Bot Lab 52: 447 [Tasmania]
Hattori	1983	499	J Hatt Bot Lab 54: 164-165
Hattori	1984	682	Crypt Bryol Lichen 5(1-2): 184-185 [Australia, QLD]
Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 179, fig 122 [NSW, TAS, VIC, New Zealand, Subarctic Isl.]
Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-97, microfiche 49 fig 3345 [Nova Zelandia, com. Curnow"]
Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
Scott & Bradshaw	1986	56	Brunnonia 8 (1): 33 [priority over Fr. congesta], 36 & 144 [Australia: NSW, VIC; Tasmania]
Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 157 [Checklist Tasmania]
Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
Hattori	1988	429	Nova Hedwigia Beih 90: 154 [Australia: NSW, QLD]
Windolf	1989	1026	Austrobaileya 3(1): 104 [Queensland]
Jarman & Kantvilas	1995	1575	New Zealand J Bot 33: 68 [Tasmania, on old Huon pine tree]
Jarman & Fuhrer	1995	78	Mosses liverworts rainforest Tasmania: 87, 124, fig 73
Glenny & Fife	1996	2422	Australasian bryol newsletter 34: 8 [Antipode Isl.]
Downing & Coveny	1996	2421	Australasian bryol newsletter 34: 6 [Australia, Wee Jasper limestone]
Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
Fife & allii	1998	2424	Australasian bryol newsletter 39: 14 [Australia]
Jolley & Milne	1998	2423	Australasian bryol newsletter 39: 10 [Australia, Victoria, Grampians NP]
Konrat, Braggins & Harris	1999	1246	Bryologist 102(2): 240-248 [new technique to investigate the capsule wall]
Meagher	1999	2425	Australasian bryol newsletter 41: 8 [Tasmania, Flinders Isl.]
Milne & Louwhoff	1999	753	Hikobia 13: 25-26 [on a myrtle beech, Nothofagus cunninghamii]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Konrat & Braggins	1999	725	Trop Bryol 17: 104, 105 [New Zealand (North Isl); commonly epiphyllous]
Windolf	1999	1027	Austrobaileya 5(2): 351 [Queensland]
Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 10 [initial branching appendages]
Jarman & Kantvilas	2001	1157	Tasforests 13(2): 239 [Tasmania]
Jarman & Kantvilas	2001	1161	Tasforests 13(2): 212 [Tasmania]
Setzepfand	2002	1159	Epiphytische Vegetation auf Weinmannia racemosa, Neuseeland [Diss]: 118-119 [New Zealand]
Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 246 [field guide, foto, Tasmania, Victoria, Australian Capital Territory, New South Wales]
Konrat & Braggins	2003	993	New Zealand J Bot 41: 55-62 [Tasmania, comparison with hattorii, aterrima & rostrata]
Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [Australia (NSW, QLD, VIC, ACT, TAS)]
Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 6th of 6 pages [Key to Frullania of New Zealand, throughout] [as Fr rostrata var typica]
Grove	2004	1160	Species list for the Warra LTER site: 12 [Tasmania]
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html

	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	NN	2004	1149	Australian Antarctic Data Centre, http://www.aad.gov.au [Macquarie
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	Konrat, Braggins, Asakawa & Toyota	2006	1465	J H B L 100: 553-576
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW ACT VIC TAS]
	Konrat, Hentschel, Heinrichs & Braggins	2011	2580	Bryologist 114(1): 54 [revision of Frullania, sg Microfrullania, sect nov Amphijubula]

rovnoi Mamontov, Hentschel, Konstant., Perkovsky & Ignatov 2017 2487

Subgenus: Trachycolea

Typus: Ukraine, Klesov, amber quarry 'Pugach'

Amber inclusion SIZK-K-10049F, Rovno amber collection of the Schmalhausen Institute of Zoology in Kiev (SIZK).

Basionym:

Distribution:

spec nov	Mamontov et all	2017	4633	Journal of Bryology
	Feldberg et al.	2021	5972	Bry Div Evo 43(1): 38

rubella var. elongata (Steph.) S.Hatt. 1983 1748

Subgenus: Trachycolea

Basionym: Frullania elongata Steph. 1910 [non (Lehm. & Lindenb.) Gottsche IN G., L. & N. 1845]

Distribution: Australia (QLD, NSW)

comb nov	Hattori	1983	499	J Hatt Bot Lab 54: 155-156
	Hattori	1984	682	Crypt Bryol Lichen 5(1-2): 185 [Australia, QLD]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 [Australia]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [Australia (QLD)]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]

rubella Gottsche 1889 1747

Subgenus: Trachycolea

Typus: Australia. Queensland, Towcomba sd, C. Hartmann 66

in hb G 18277

Basionym:

Distribution: Australia (QLD, NSW)

spec nov	Gottsche in Stephani	1889	940	Hedwigia 28: 159-160, pl 4(14-19) [Australia]
	Stephani	1910	686	Spec Hepat 4: 420
	Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 109 [Mt. Wilson]
	Bonner	1965	655	Index Hepat 5: 418
	Hattori	1979	485	J Hatt Bot Lab 45: 353-354, fig 22(a-o) from type
	Hattori	1983	499	J Hatt Bot Lab 54: 147-148 [closely related to Fr. flexuosa]
	Hattori	1984	682	Crypt Bryol Lichen 5(1-2): 185 [Austalia, QLD]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-219ab, microfiche 53 fig 3634 ["Queensland, C Hartmann"] - 3635 [Australia orientalis, Richmond River N.S.W, leg Watts (Levier 3048"]
	Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: NSW, QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Jahnke	1990	1139	The Queensland Naturalist 30(3-4): 51 [Australia, QLD, Moreton Isl]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [Australia (QLD, NSW)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html

rudolfiana S.Hatt. 1972 1751

Subgenus: Mammillosae

Typus: Papua New Guinea. Simbu, Mt. Wilhelm, 12150-12450ft 1967, Schuster 67-6127/b

in hb NICH [holotypus]
in hb JE, MASS [isotypus]

Basionym:

Distribution: New Guinea

spec nov	Hattori	1972	539	J Hatt Bot Lab 36: 437-438, fig 16
	Hattori	1973	542	J Hatt Bot Lab 37: 151 [New Guinea]
	Hattori	1982	495	J Hatt Bot Lab 51: 234-235
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 37
	Hattori	1988	516	J Hatt Bot Lab 65: 443 [PNG]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 34: Holotype. New Guinea, Central Highlands, Mt. Wilhelm. 12150-12450 ft. 06 June 1967. R. M Schuster 67-6127/b (NICH 309922).

rupicola Steph. 1924 1753

Subgenus: Trachycolea

Typus: Mexico 1913, Arsène 7837

in hb G

Basionym:

Distribution: Mexico

spec nov	Stephani	1924	687	Spec Hepat 6: 534
	Bonner	1965	655	Index Hepat 5: 419
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 79, microfiche 47 fig 3182 [from type; "Mexico (Dusén 7839) 1913"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 45 [Mexico]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 286

sabahana S.Hatt. 1976 6

Subgenus: Homotropantha Homotropantha

Typus: Malaysia, Sabah [N Borneo], Lahad Datu, Mt. Silam, 330 m ZI 5214a

in hb NICH

Basionym:

Distribution: Malaysia (Sarawak, Sabah), Borneo

spec nov	Hattori	1976	80	J Hatt Bot Lab 40: 493-496, fig 192-193
	Hattori	1980	490	J Hatt Bot Lab 47: 207-209, fig 27
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 34-35: Holotype. Borneo, East Coast, Lahdo Datu, Mt. Silam. 330 m. 11 June 1963. Z. Iwatsuki 5214a (NICH 255214a).

sabaliana R.M.Schust. 1983 1755

Subgenus: Trachycolea Trachycolea

Typus: USA. Florida -.1.1983, RMS 83-1003

Basionym:

Distribution: USA (FL)

	Schuster	1983	440	Phytologia 53 (3): 365-366
	Schuster	1992	603	Hepat N America 5: 216-222, fig 775(6-17), 803(1-5), 808(10-13), 809

sackawana Steph. 1897 7

Subgenus: Homotropantha Homotropantha

Typus: Japan. Sikoku, Kochi Pref., Prov Tosa: Sakawa-machi -.4.1896, Yoshinaga 28

in hb G [holotypus],
in hb TNS [isotypus]

Basionym:

Distribution: China (Yunnan, Hainan), Taiwan, Japan, Laos, Thailand, Philippines

spec nov	Hattori	1897	213	Bull Herb Boissier 5: 79 & 91 [spec nov; Japan]
	Inoue	1898	945	Bot Mag Tokyo 12: 74 [Japan]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 31 [key to Japanese species, in Japanese]
	Stephani	1911	686	Spec Hepat 4: 580-581
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Verdoorn	1928	242	Rev Bryol NS 1: 118
	Kamimura	1943	2798	Nat Sci Mus Tokyo 14: 293-295, fig 2(n-w) [Japan]
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 130-131
	Hattori	1952	529	J Hatt Bot Lab 8: 31
	Hattori & Noguchi	1960	965	Index spec Typ herb Japon, Bryophyta: 18
	Kamimura	1961	199	J Hatt Bot Lab 24: 58-59, fig 21(16-28), map 6
	Bonner	1965	655	Index Hepat 5: 421
	Yanagita & Kamimura	1970		Bull Fac Kochi Univ 1: 90, fig 2, pl 1
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 135, fig 65(d-f), map p. 242 [Central Japan]
	Hattori	1976	1731	-In. P. Kachroo (ed.), Recent Advances in Botany: 68 [Luzon, new to Philippines]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 446 [Thailand]
	Hattori & Thaithong	1978	128	J Jap Bot 53 (6): 172 [Laos]
	Hattori	1980	490	J Hatt Bot Lab 47: 225-226, fig 37
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 153 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-33, microfiche 54 fig 3754 ("Japan"] - 3755
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 14
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 210 [China: Hainan Isl]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Lin & Chen	1997	1130	Biol Bull 75: 101-104, fig 18(a-o) [Taiwan, key to species, in Taiwanese]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 427, fig 214(1-6) [China, Yunnan]
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Lin	2000	1524	Liverwort Flora Taiwan: 173-173, fig p 173(1-14) [Taiwan]
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 4, fig 2(a-m) [Japan, keys to species; in Japanese]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 282, pl 165(4) [with key to Japan, in Japanese]
	Bai	2001	1742	Guizhou Science 19(4): 49 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 21 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1132, fig 530(1-6) [China]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 32 [Catalog of Japan]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 243(1-6) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 70, fig 32(a-h) [checklist & revision of genus Fullania, Thailand]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

saepisdentata S.Hatt. & Streimann 1985 948

Subgenus:

Typus: Papua New guinea. Morobe Prov., Aiuwa-Bakia-Track, 3 km W of Aseki, 1500m , Streimann & Tamba 12324 in hb NICH [holotypus], in hb CBG [isotypus]

Basionym:

Distribution:

spec nov	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 116-118, fig 8 [spec nov, difference to Fr. curvistipula]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 32-33
- syn nov	Hattori	1988	516	J Hatt Bot Lab 65: 419 [syn sub Fr. curvistipula]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Holotype. Papua New Guinea, Morobe Province, Aiuwa - Bakia Track. 1500 m. 22 Jan. 1981. H. Streimann and E. Tamba 12324 (NICH 3940~0).

saipanensis S.Hatt. & Koike 1994 1758

Subgenus: Trachycolea

Typus: Micronesia. Saipan Isl -, Y. Horikawa 17807 in hb HIRO (YH 18030) [holotypus]

Basionym:

Distribution: Northern Marianas (Saipan Isl)

	Hattori & Koike in Koike	1994	37	J Hatt Bot Lab 75: 188-190, fig 3 [close to Fr. ampullifera]

sandvicensis Ångstr. 1872 452

Subgenus: Chonanthelia Pluricarinatae

Typus: Honolulu 1.6.1852, N.J. Andersson sn lectotypus [by So & Wang]: S-B24232; syntypus:S-B24233, S-B24234; ? in in hb G

Basionym:

Distribution: Hawaii

spec nov	Ångström	1872	577	Öfversigt K Vetensk Akad Förh 29 (4): 28-29 ["Honolulu (Sandwichs-öarne)"]
	NN	1875	1495	Hedwigia 14: 78 [Honolulu (Sandwichs-Insel)]
	Stephani	1897	214	Bull Herb Boissier 5: 842[:260] [Hawaii]
	Evans	1900	236	Trans Connet Acad Arts Sci 10 (1): 399 [autoicous plants = aongstroemi EVANS, dioicus plants = sandvicensis (ANGST.) EVANS]
	Evans	1900	236	Trans Connet Acad Arts Sci 10 (1): 399-400, pl. 45(1-7) [comb nov for dioicous plants]
	Evans	1900	236	Trans Connet Acad Arts Sci 10 (1): 395 [syn nov]
	Stephani	1910	217	Denkschr K Akad Wiss, Math Nat Kl, Wien 85: 193 [Hawaii, as "sandwicensis"]
	Stephani	1910	686	Spec Hepat 4: 442-443
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Nicholson	1942	679	Rev Bryol Lichen 13: 143 [Hawaii; as "sandwicensis"]
	Miller	1953	349	Bryologist 56: 45 [sub Fr squarrosa]
	Miller	1953	349	Bryologist 56: 45 [dioicous plants syn nov sub Fr neurota]
	Miller	1963	834	Ark Bot, ser 2, 5: 518 [syn sub Fr. squarrosa]
	Miller	1963	834	Ark Bot, ser 2, 5: 518 [syn sub Fr. neurota]
	Bonner	1965	655	Index Hepat 5: 421
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 137
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-178, microfiche 52 fig 3580 ["olim Frull hawaica St ms, Hawai, leg Lauterbach 204a"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 133 [dioicous plants syn nov syn nov sub Fr. ericoides]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 170 [dioicous plants syn sub Fr. ericoides]
	So & Wang	2006	1466	J H B L 100: 426-429, fig 4(a-c,e), [lectotypification; Hawai, key to Hawaiian species]
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 56, [syn sub Fr neurota]
	Judziewicz & Freire	2023	6443	Bishop Museum Occasional Papers 155: 161 [Hawaii., misidentification of Fr. ericoides & neurota, (see So & Wang 2006: 428-429)]

sarawakensis S.Hatt. 1976 8

Subgenus: Homotropantha Homotropantha

Typus: Malaysia, Sarawak, Bintulu Distr. 23.2.1964, M. Hotta 15733

in hb NICH

Basionym:

Distribution: Malaysia (Sarawak), Borneo, Indonesia (Sulawesi)

spec nov	Hattori	1976	80	J Hatt Bot Lab 40: 496-497, fig 194
	Hattori	1980	490	J Hatt Bot Lab 47: 215-216, fig 31
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
	Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Western Malesian, lowland]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Holotype. Borneo, Bintulu District, Sungai Kakus. 30-80 m. 23 Feb. 1964. M. Hotta 15733 (NICH 271929). Isotype specimen: NICH 344756.

saxicola Austin 1869 1198

Subgenus: Frullaniopsis

Typus: USA. New Jersey, Bergen Co, near Closter & Little Falls -.9.1866 or -.11.1866, Austin , ?/Collector unknown 104

in hb G,
in hb MICH MICH514768 (C.F. Austin s.n. Sep 1866, USA, New Jersey, Uncertain: Near Closter and Little Falls) [isosyntypus]
in hb S-PA ? (hb LEHMANNIANUM) - in hb US - in hb PH 2886 ex hb PENN > see fr1198.png

Basionym:

Distribution: USA

spec nov	Austin	1869		Proc Acad Nat Sci Philadelphia 1869 (Separata): 8
spec nov	Austin	1870	1339	Proc Acad Nat Sci Philadelphia 21: 225-226
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): [syn sub Fr. virginica]
	Stephani	1910	686	Spec Hepat 4: 431 [syn sub Fr. eboracensis]
	Schiffner	1910	436	Österr Bot Zeitschr 60 (11): 432-433
	Evans	1910	912	Rhodora 12: 201-203
	Stephani	1911	686	Spec Hepat 4: 678 [a valid species according SCHIFFNER]
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 631-633, fig 178(a-h) [Tirol near Meran]
- syn nov	Evans	1923	865	Bryologist 26: 65-67 [may be syn sub Fr. inflata]
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 42 [China]
	Clark & Svihla	1944	312	Bryologist 47: 196-199 [syn sub Fr. inflata]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 764 [syn of Fr. inflata]
	Schuster	1953	604	Amer Midl Nat 49 (2): 563, pl 71(1-4) [Fr. saxicola & inflata are 2 different species]
	Vajda	1956	2684	Bot Közlem 47: 104-106 [syn sub Fr. inflata]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1253 [syn sub Fr. inflata]
	Pospisil	1962	953	Acta Musei Moraviae 37: 110
	Bonner	1965	655	Index Hepat 5: 422
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 733 [sub Fr inflata]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 91, microfiche 51 fig 3469 {"New Jersey, ist gute Art teste Schiffner, ganz verschieden von eboracensis, stimmt gut mit Schiffners Pr.."]
	Piippo	1990	521	J Hatt Bot Lab 68: 46 [annotated catalogue of China]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Schuster	1992	603	Hepat N America 5: 196 [syn sub Fr. inflata]
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 28 of 35 [in hb US]
	Fogel	1997	629	http://141.211.110.91/livrqury.htm [16.11.1997] - Genus=Frullania, printed 5.1.1998 11:11:38: page 2 of 3
	Bapna & Kachroo	2000	712	Hepaticology in India II: 173 [syn sub Fr. inflata]
	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 201-242 [belong to subg. Frullaniopsis subgen. nov.]

scalaris S.Hatt. 1977 1761

Subgenus: Microfrullania Regulares

Typus: New Caledonia.

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1977	479	J Hatt Bot Lab 43: 432-433, fig 15 [New Caledonia]
	Hattori	1984	503	J Hatt Bot Lab 57: 421
	Hattori	1986	506	J Hatt Bot Lab 60: 233
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Holotype. New Caledonia, Mts. Kouanemoa. 230 m. 2 Feb. 1951. H. Hurlimann 2328 (NICH 353845).

scandens Mont. 1843 1762

Subgenus: Trachycolea Irregulares

Typus: Auckland Isl -, Hombron, "voyage au pole sud"

ex hb MONTAGNE, in hb G
in hb WELT H003189 (New Zealand, North Island, North Auckland, Auckland) [isotypus]

Basionym:

Distribution: Australia (VIC), Tasmania, New Zealand (North Isl, South Isl), Auckland Isl [New Zealand], Antipode Isl [New Zealand], Campbell Isl [New Zealand], Stewart Isl

spec nov	Montagne	1843	470	Ann Sci Nat Bot, ser 2, 19: 258
	Taylor & Hooker in Hooker	1845	839	Antarctic voyage, I. Fl Antarctica 1: 165 [as Jungermannia scandens] [Lord Auckland Isl]
	Taylor & Hooker in Hooker	1845	2631	The Cryptogamic botany of the Antartic voyage: 52 [as Jungermannia scandens] [Lord Auckland Isl]
	Montagne	1845	1591	Voyage au pole sud 1837-40, Paris, 3 Botanique, vol 1 Cryptog: 227-229 - Cryptog. Atlas pl 19 (2)
	Montagne in G., L. & N.	1845	2850	Syn Hepat: 432
	Hombrom & Jacquinot	1846	1593	Voyage au Pôle Sud et dans l'Océanie, sur les corvettes "l'Astrolabe" et "la Zélée". Atlas Botanique pl 19 (2)
	Montagne	1856	1912	Sylloge generum specierumque cryptogamaram: 85
	Hooker	1867	1154	Handbook New Zealand Flora: 535-536 [Lord Auckland Isls]
	Stephani	1910	686	Spec Hepat 4: 422
	Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 136 [Tasmania]
	Hodgson	1962	658	Rec Dominian Mus 4 (11): 124 [Auckland Isl, Campbell Isl, Antipode Isl]
	Schuster	1963	745	J Hatt Bot Lab 26: 242-243
	Bonner	1965	655	Index Hepat 5: 423
	Hamlin	1972	659	Rec Dominion Mus 7(19): 263 [New Zealand]
	Hattori	1983	499	J Hatt Bot Lab 54: 166-168, fig 65. & 140-143
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-220, microfiche 53 fig 3636 ["Auckland Islands (Australia)"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Tasmania]
	Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 157 [Checklist Tasmania] & 158 [Hattori per comm (IV): may be conspecific with Fr mooreana]
	Godley	1989	1334	New Zealand J Bot 27: 537 [Antipode Isl]
	Glenny & Fife	1996	2422	Australasian bryol newsletter 34: 8 [Antipode Isl.]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Konrat & Braggins	1999	725	Trop Bryol 17: 104, 105 [New Zealand (North Isl); rare epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 107 [epiphyllous]
	Jarman & Kantvilas	2001	1157	Tasforests 13(2): 239 [Tasmania]
	Jarman & Kantvilas	2001	1161	Tasforests 13(2): 212 [Tasmania]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 443 [chemosystematic; bibenzl-type]
	Meagher & Fuhrer	2003	1152	Flora Australia Suppl series 20: 244 [field guide, Tasmania, Victoria]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [Australia (VIC, TAS)]
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 2nd of 6 pages [Key to Frullania of New Zealand; Cental & southern North Isl, South Isl, Stewart Isl, Auckland Isl]
	Grove	2004	1160	Species list for the Warra LTER site: 12 [Tasmania]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia VIC TAS]
	Schäfer-Verwimp & Winter	2023	6430	Frahmia 39: 12-23

schaefer-verwimpii Yuzawa & S.Hatt. 1989 1765

Subgenus: Frullania Microphyllae

Typus: Brazil. Rio de Janeiro, Teresopolis, Parque Nacional da Serra dos Órganos, ca. 1080m -, S.-Verwimp & Verwimp 735 in hb NICH [holotypus], in hb S-VERWIMP [isotypus]

Basionym:

Distribution: Brazil

	Yuzawa & Hattori	1989	140	J Jap Bot 64 (2): 37-40, fig 1 [similar to Fr. punctata; key to Fr. punctata & Fr. schaefer-verwimpii]
	Yano	1995	2095	J Hatt Bot Lab 78: 143 [annotated checklist of Brazil]
	Yano & de Mello	1999	919	Iheringia, ser Bot 52: 81-82 [Brasil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89-91 [Brazil]
	Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 284 [Rio de Janeiro State, Brazil]
	Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 189-191, fig. 24 [distribution], fig 25(a-n)

schensiana var. punctata (S.Hatt.) Kamim. 1961 1774

Subgenus: Trachycolea

Basionym: Frullania ontakensis fo. punctata S.Hatt. 1944

Distribution: Japan

stat nov	Kamimura	1961	199	J Hatt Bot Lab 24: 33, fig 11(13-16)
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 35, fig 31(a-l) [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 32 [Catalog of Japan]

schensiana C.Massal. 1897 1766

Subgenus: Trachycolea

Typus: China. Schensi, "in monte Lao-y-san -.3.1896, S. Giraldi in h G 14561 (hb MASSALONGO 104, ex hb LEVIER) [isotypus]

Basionym:

Distribution: China (Hunan, Hubei, Yunnan, Shaanxi, Sichuan, Anhui, Inner Mongolia, Xizang, Jiangxi), Taiwan, Korea (South), Japan, Nepal, India (North: West Bengal (Darjeeling)), Sikkim, Bhutan, Thailand, Philippines

spec nov	Massalongo	1897	1914	Mem Accad Agr Art Comm Verona, ser 3, 73 (2): 40-41, pl 11 fig 15(1-11)
	Levier	1906	824	Nuovo Giorn Bot Ital NS 13: 349
	Stephani	1911	686	Spec Hepat 4: 456
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 40 [China]
	Hattori	1951	860	J Hatt Bot Lab 5: 83, pl. 2, 34 [oil bodies] - nicht in der Publikation enthalten, error in Kamimura 1961)
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 129
	Hattori	1952	529	J Hatt Bot Lab 8: 31
	Hattori	1959	857	J Hatt Bot Lab 21: 128 [Japan]
	Kamimura	1961	199	J Hatt Bot Lab 24: 31, fig 11(1-12), map 3
	Hong & Yoo	1961		Hikobia 2: <244-252> [aus 717]
	Hong	1962		[aus 717]
	Hattori, Hong & Inoue	1962	876	J Hatt Bot Lab 25: 285 [Korea]
	Hong	1966	1107	Bryologist 69 (1): 412 [South Korea]
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 527
	Hattori in Hara	1971	190	Univ Mus Univ Tokyo Bull 2: 238 [Bhutan]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 135 [Central Japan]
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Hattori	1974	544	J Hatt Bot Lab 38: 180 [Luzon, Philippines]
	Hattori	1975	66	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (4): 161-163, fig 169(a-h)
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 452 [Thailand]
	Hattori & Lin	1980		[aus 717]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 735 [South Korea]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 257 [Japan]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 143 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-181, microfiche 52 fig 3583 ["China, Schensi, Giraldi, März 1896, Herb Massalongo No 104"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 46-47 [annotated catalogue of China]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya, Nepal] - new record from India (Hattori 1976)
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 184 [checklist Hunan]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 288 [Korean Peninsula]
	Fang, Enroth, Koponen & Piippo	1998	704	Hikobia 12 (4): 347 [China: Jiangxi Prov]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 143 [checklist of Yunnan, China]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 124, fig. 55(4-7)
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 387, fig 193(1-8) [China, Yunnan]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 181
	Bai	2001	1742	Guizhou Science 19(4): 45, fig 3(1-8) [China, Yunnan]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 35, fig 30(a-p) [Japan, keys to species; in Japanese]
	Bai	2002	1189	Chenia 7: 17, fig 3(1-8) [Yunnan, China]
	Li & Zhao	2002	1190	Chenia 7: 117 [China, Hubei]
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 19 [Nepal, 1500-2800 m]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1095-1097, fig 509(1-8) [China]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 32 [Catalog of Japan]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: ? FAR EAST, record by Brotherus 1905 from Amur seems to be erroneous]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 238(1-8) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 50, fig 21(a-f) [checklist & revision of genus Fullania, Thailand]
Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts] [annotation 110]
Furukii	2020	5807	Bryological Research 12(3): 76-78 [Gemmae of Frullania schensiana]

schiffneri Verd. 1929 1775

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Sumatra, Mt. Singalang, 1720m 24.7.1894, Schiffner 2394, 2395

Basionym:

Distribution: Indonesia (Sumatra)

Verdoorn	1929	245	Ann Bryol 2: 150-151, fig 8
Verdoorn	1930	293	Ann Bryol Suppl 1: 144, fig 235-236
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 63 [Sumatra]
Bonner	1965	655	Index Hepat 5: 423
Uribe	2008	1513	Caldasia 30(1): 91, [type was not available] [Monography of subgenus Meteoriopsis]

schimperi Nees 1845 1776

Subgenus: Meteoriopsis Obtusilobae

Typus: Ethiopia. Mount Silke 20.2.1840, Schimper 498

in hb STR [holotypus]
in hb G
in hb S(B24239, 24241)[isotypus]

Basionym:

Distribution: Burundi, Cameroon, Ethiopia, Kenya, Rwanda, Uganda, Tanzania, Socotra, Madagascar

spec nov	Nees in G., L. & N	1845	2850	Syn Hepat: 454
	Stephani	1911	686	Spec Hepat 4: 487-488
	Gola	1914	786	Annali di Botanica 13: 72 [Ethiopia]
	Cufodontis	1952	2562	Phyton 4 (1-3): 76 [Ethiopia]
	Bonner	1965	655	Index Hepat 5: 423
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 343 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 56-60, fig 14
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 209 [key to Madagascar] & 218
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 27, microfiche 57 fig 3908 ["Abyssinia (Schimper)"] - 3909
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Rwanda]
	Grolle	1995	250	Bryophyt Bibl 48: 68 [afr3]
	Chuah-Petiot	1995	31	Trop Bryol 10: 51 [Kenya: Mount Kenya] [as "shimperi"]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 91 [Catalogue ... of Sub-Saharan Africa]
	Chuah-Petiot	1997	646	Trop Bryol 13: 63 [Kenya, Aberdare Range]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Porley, O'Shea, Wigginton, Matcham, Hodgetts & Stevenson	1999	711	Trop Bryol 16: 183 [Uganda]
	Chuah-Petiot	2001	1074	Trop Bryol 20: 37 [Cherangani Hills, Kenya]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 29-30 [Burundi, Cameroun, Ethiopia, Kenya, Madagascar, Rwanda, Tanzania, Uganda] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Kürscher	2003	1099	Willdenowia 33: 450, fig 5(1-5) [Socotra Isl] & 454 [checklist of Socotra]
	Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 206, fig268(a-g) [Kenya; key to species]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Burundi, Cameroun, Ethiopia, Kenya, Madagascar, Rwanda, Socotra, Tanzania, Uganda] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Kürschner	2004	1290	Bot Jahrb Syst 125(3): 377-395 [Socotra]

schimperi var. laciniata Vanden Berghen 1976 1778

Subgenus: Meteoriopsis Obtusilobae

Typus: Madagascar. sd, Onraedt 74 M 8078c

on hb ONRAEDT [holotypus], in hb VANDEN BERGHEN [isotypus]

Basionym:

Distribution: Madagascar

	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 59-60
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 209 [key to Madagascar]
	Grolle	1995	250	Bryophyt Bibl 48: 68 [afr3]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Madagascar] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Madagascar] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 221 [only from Madagascar]
	Wigginton	2004	1172	Sript Bot Belg 30: 221, fig 144(A-Q) [West Africa]

schmalhausenii Mamontov, Ignatov & Perkovsky 2019 2519

Subgenus:

Typus:

H o l o t y p e. SIZK-L-90: liverwort in an amber sample; vicinity of the village of Voronki, Vladimirets District, Rovno amber, Late Eocene.

Basionym:

Distribution: Fossil Ukraine (Rovno Amber)

	Mamontov et al.	2019	5615	Paleontological Journal 53(10): 1100-1102

schumannii (Caspary) Grolle 1981 2242

Subgenus: Trachycolea

Typus: Fossil. Inclusion in Amber, Eocene

Basionym: Lejeunae schumannii Caspary 1887

Distribution: Fossil (Eocene) in Baltic & Bitterfeld amber, Germany

comb nov	Grolle	1981	1058	Occas Pap Farlow Herb 16: 101-110, fig 1-5
neotype	Grolle	1985	621	Prace Muz Ziemi z 37: 93-94, fig 3, pl 4 [neotype inclusion in Baltic amber from Sambia]
	Weitschat & Wichard	1998	1080	Atlas Planzen Tiere Baltischer Bernstein, München: 44-45, pl 2(c-d) fotos
	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 26-27, pl. 10(d-g), 11(a-d)
	Feldberg et al.	2021	5972	Bry Div Evo 43(1): 38, fig 6H,I

schusterana S.Hatt. 1972 1780

Subgenus: Diastaloba Diastaloba I

Typus: Papua New Guinea. Morobe, Wau District, summit of Mt. Kaindi, SSW od Wau, wet mossy forest, 2200-2350m 26.5.1967-27.5.1969, R.M.Schuster 67-6310

in hb NICH [holotypus];
[isotypus] in hb MASS & hb JE

Basionym:

Distribution: New Guinea [Papua New Guinea]

spec nov	Hattori	1972	539	J Hatt Bot Lab 36: 411-413, fig 1 [as "schusterana"]
	Hattori	1973	542	J Hatt Bot Lab 37: 151 [New Guinea] [as "schusterana"]
	Hattori	1982	495	J Hatt Bot Lab 51: 223 [as "schusterana"]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 118 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 33, fig 1
	Hattori	1988	516	J Hatt Bot Lab 65: 443-444
	Müller & Zündorf	2007	1442	http://www2.uni-jena.de/biologie/spezbot/herbar/bryotypes/Uebersicht%20F.htm
	Müller & Zündorf	2007	1442	http://www2.uni-jena.de/biologie/spezbot/herbar/bryotypes/Uebersicht%20F.htm
	Uribe	2008	1513	Caldasia 30(1): 91, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: [as schusterana] Holotype: New Guinea Wau Distr., Summit of Mt. Kaindi. 2200-2350 m. 26-27 May 1967. R. M. Schuster 67-6310 (NICH 309935).

schusteri S.Hatt. 1988 1779

Subgenus: Trachycolea

Typus: Australia. Queensland Lamington NP, Blue Pools track near O'Reilly's 30.7.1984, BT & RH 2825
in hb NICH 8holotypus], in hb AD, NY [isotypus]

Basionym:

Distribution: Australia (QLD)

Hattori	1988	429	Nova Hedwigia Beih 90: 154-155, fig 3(a-l)
Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (QLD)]
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 26 [only type collection, vulnerable, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Holotype. Australia, Moreton Distr., Lamington National Park. 300-500 m. 30 July 1984. B. M. Thiers and R. E. Hailing 2825 (NICH 401583).

scottiana S.Hatt. 1987 1781

Subgenus: Trachycolea

Typus: Australia. Queensland 31.8.1985, G.A.M. Scott
in hb NICH 402268 [holotypus]
in hb MUCV 6952 [isotypus]

Basionym:

Distribution: Australia (QLD)

Hattori	1987	402	Mem NY Bot Gard 45: 551-552, fig 5
Konrat & Braggins	1999	725	Trop Bryol 17: 107 [epiphyllous]
Pocs & Streimann	1999	762	Bryobrothera 5: 169 [epiphyllous, Australia: Queensland]
Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (QLD)]
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Holotype. Australia, Kirrama State Forest, Smoke Creek. 31 Aug. 1985. G. A. M. Scott (NICH 402268).

selwyniana Pearson 1890 1785

Subgenus: Frullania

Typus: Canada. Ste Anne´s River, Gaspé 19.8.1882, Macoun

in hb G

Basionym:

Distribution: Canada (PQ ON), USA (ME VT NH OH MI WI MN)

spec nov	Pearson	1890	1153	List of Canadian Hepaticae: 1-2, pl 1(1-12)
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 29-30, pl 13(9-17)
	Barbour	1902	2233	Bryologist 5(1): 5 [USA]
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 47 [Canada]
	Stephani	1911	686	Spec Hepat 4: 568-569 [as no 186 under Europa America sept]
	Stephani	1911	686	Spec Hepat 4: 669 [as no 99 under Antarcticae]
	Verdoorn	1932	232	Ann Bryol 5: 126 [Hepat select crit, ser 3 & 4 no 175; America sept.]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 755-757, fig Frs(1-11)
	Schuster	1953	604	Amer Midl Nat 49 (2): 565, pl 72(5-8)
	Bonner	1965	655	Index Hepat 5: 425
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-200a, microfiche 60 fig 4162 ["olim Frull Sullivantiae Aust, Cedar Swamp near Urbana ot 1844, syn Frull selwyniana Pears Canad Hep 1890"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-200b, microfiche 60 fig 4163 ["Copie nach Pearson Hep Can, Canada, St Annes River, Macoun, leg 19/8. 1882"]
	Schuster	1992	603	Hepat N America 5: 47 [ad Pseudodiastaloba]
	Schuster	1992	603	Hepat N America 5: 80-84, fig 785
	Greene	2001	1255	Liverworts & hornworts of New England: 6 of 9 [USA, New England (ME NH VT)]
	Lyman	2003	1268	Checklist of Wisconsin bryophytes [USA]
	Cleavitt	2004	1167	Evansia 21 (2): 53 [USA, New Hampshire]
	NN	2007	2543	USDA Forest Service, reginal sensitive plant
	Lincoln	2008	1712	Memoir New York Bot Gard 99: 124 [New England States, USA]
	Janssens & Greenlee	2009	2536	Evansia, 26(4):163-171 [occurrence in Minnesota, USA]

semienana Gola 1914 2049

Subgenus: Incertae sedis

Typus: [Etiopia] Abyssinia. Amhara-Semien prope Debarek 30.11.1909, Chiovenda 2960 bis, 2969

Basionym:

Distribution: Ethiopia

spec nov	Gola	1914	786	Annali di Botanica 13: 71, pl 4(20-21)
	Gerola	1947	1532	Lavori di botanica / Istituto Botanica dell'Università di Padova 12: 475 [Ethiopia]
	Cufodontis	1952	2562	Phyton 4 (1-3): 77 [Ethiopia]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 13 [as nom nud in Gola 1947]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 91
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Ethiopia] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Ethiopia] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

semivillosa Lindenb. & Gottsche 1847 1788

Subgenus: Trachycolea Trachycolea

Typus: Mexico. Veracruz, Mirador 3000-6700ft -.3.1842, Liebmann

typus in hb S (B24246)

Basionym:

Distribution: Mexico, Panama, Brazil

spec nov	Lindenberg & Gottsche in G., L. & N.	1847	2848	Syn Hepat: 774
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 537
	Mitten in Seemann	1857	1494	Bot Voyage HMS Herald: 246 [Panama]
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 79 [= Fr. grandistipula, vide Verdoorn 1929]
	Gottsche	1863	103	Separata of Mex. Leverm.: 240
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 336 [Mexico]
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134, fig 70(h-i)
	Dusen	1905	710	Arch Mus Nac Rio de Janeiro 13: 116 [Brasil]
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134, fig 70(h-i)
	Stephani	1910	686	Spec Hepat 4: 386-387
	Verdoorn	1929		Ann Bryol 2: 256 [erroneously reported from Java]
	Verdoorn	1929	246	Ann Bryol 2: 156 [notes to Sande Lacoste 1857; specimens = Fr. grandistipula]
	Clark	1955	368	Bryologist 58: 64-67, fig 1-21 [difference to Fr. squarrosa & Fr. glomerata]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 91 [Brazil]
	Bonner	1965	655	Index Hepat 5: 426
	Yano	1984	501	J Hatt Bot Lab 56: 506 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 73b, microfiche 51 fig 3437 [".. Spruce, Brasilia, Sitio Ibainio? "]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 73a, microfiche 51 fig 3435 ["No 1516, inter Frull zylindr, Mexico, leg Leibold, ex Herb Rabenhorst, com Dr G Winter 1883"]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 73b-, microfiche 51 fig 3438 ["?"]
	Schuster	1985	441	Phytologia 57 (5): 371-372 [sect Trachycolea, ssect Semivillosae - type species for nov ssect]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 73b, microfiche 51 fig 3436 ["Fr semivillosa Spr, Mirador"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 46 [Mexico]
	Schuster	1992	603	p. 130-131
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 180 [Checklist Panama]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Lima	2010	3616	Catálogo de plantas e fungos do Brasil [online].: 457 [Brazil]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 128-135, fig. 15 [distribution]

sergioae Sim-Sim, Fontihna, Mues & Lion 2000 2130

Subgenus: Frullania

Typus: Madeira, Deserta Grande, Poco da Faja Grande, CA5998, 250m 15.5.1995, Isamberto Silva, s.n.

in hb LISU 171475 [holotypus]
in hb MADJ 2982 und hb JE [isotypus]
as 'sergiae' in honor of Dr. Cecília Sérgio, corrected in accordance with Arts. 60.8 & 60.9 (Shenzhen Code)

Basionym:

Distribution: Madeira [Portugal]

	Sim-Sim, Fontihna, Mues & Lion	2000	749	Nova Hedwigia 71 (1-2): 185-193, fig 1(a-h), 2(a-h), 3, 4
	Dierssen	2001	779	Bryophyt Bibl 56: 217 [ecology in European bryophytes]
	Fontinha, Sim -Sim, Sérgio & Hedenäs	2001	2242	Biodiversidade Madeirense: Avaliação e Conservação, vol 1: 20-21 [Madeira (Deserta Grande)]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
	Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 109 [Madeira, annotated catalogue]
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Madeira]

seriata Gottsche 1889 1016

Subgenus: Trachycolea Acutilobae

Typus: Australia. Queensland, Towoomba sd, C. Hartmann 28

in hb G 18228

Basionym:

Distribution: Australia (NSW, QLD)

	Bailey	1888		A Synopsis of the Queensland Flora , Second Supplement, Brisbane: <67-78> [Queensland]
	Wild	1888	1038	Proc Roy Soc Queensland 5 (3): 120 [Queensland]
spec nov	Gottsche in Stephani	1889	940	Hedwigia 28: 160, pl 4(20-26) [Australia]
	Stephani	1910	686	Spec Hepat 4: 418
	Watts	1912	1940	unpublished Msc
	Bailey	1913	3470	Compreh catalogue Queensland plants: 675 [Queensland]
	Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 109 [Lord Howe Isl]
	Bonner	1965	655	Index Hepat 5: 426
	Hattori	1979	485	J Hatt Bot Lab 45: 355-356, fig 23(a-j) from type
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 137 [also from Lord Howe Isl]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-221ab, microfiche 53 fig 3637-3638 ["Queensland, Towoombo, C. Hartmann"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: NSW, QLD]
	Hattori	1987	400	Bryologist 90 (4): 370 [not from Lord Howe Isl]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (NSW, QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW]

seriatifolia Steph. 1894 1790

Subgenus: Frullania

Typus: Papua New Guinea. Mt Yule, 11000ft 1891, [Exped. Roy Geogr Soc Australia [comm Baron F. von Mueller] in hb G G00066919 - n° SIB 126167/1- G 13663 (hb STEPHANI 306, ex hb MEL) [holotypus G 13663]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

spec nov	Stephani	1894	228	Hedwigia 33: 167 [belongs to subgen Diastaloba]
	Stephani	1911	686	Spec Hepat 4: 642 [belongs to subgen Diastaloba]
	Verdoorn	1930	549	Nova Guinea 14 (4): 545
	Verdoorn	1930	293	Ann Bryol Suppl 1: 148-149, fig 248 [belongs to subgen Meteoriopsis]
	Verdoorn	1937	556	Blumea suppl 1: 213 [Papua]
	Bonner	1965	655	Index Hepat 5: 426
	Hattori	1973	540	J Hatt Bot Lab 37: 78-80, fig 38 [belongs to subgen Thyopsiella]
	Hattori	1974	546	J Hatt Bot Lab 38: 265
	Hattori	1975	547	J Hatt Bot Lab 39: 300
	Hattori	1982	495	J Hatt Bot Lab 51: 223
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 118 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-57, microfiche 49 fig 3297 [from type; "Nova Guinea, Mount Yule 11000ft, 1891 Exped Royal Geogr Soc Australia"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 33
	Hattori	1988	516	J Hatt Bot Lab 65: 444 [PNG]
	Uribe	2008	1513	Caldasia 30(1): 90, [belongs to subgen Diastaloba] [Monography of subgenus Meteoriopsis]
	Uribe-M.	2011	2767	Caldasia 33(1): 72, fig 2(i-p) [type study, belongs to sg Thyopsiella = Frullania]

serrata var. pertenuis (Nees) Gottsche 1845 1814

Subgenus: Diastaloba Diastaloba I

Basionym: Jungermannia cordistipula var. pertenuis Nees 1830

Distribution: Democratic Republic of Congo, Rwanda, Tanzania, Madagascar, Comores, India, Sri Lanka, Indonesia (Java), Philippines, New Caledonia, Society Isl (Tahiti)

	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 454
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 91
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 341-342
	Stephani	1911	686	Spec Hepat 4: 478 [not mentioned there]
	Bonner	1965	655	Index Hepat 5: 427
	Hattori	1973		J Hatt Bot Lab 37:
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 122-113 [Africa]
	Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East africa; Tanzania]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 208 [key to Madagascar] & 221
	Grolle	1995	250	Bryophyt Bibl 48: 67 [afr3]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 91 [Catalogue ... of Sub-Saharan Africa]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Comores, Madagascar, Rwanda, Tanzania, DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Comores, Madagascar, Rwanda, Tanzania, DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

serrata var. hamatispina (S.Hatt.) S.Hatt. 1982 1812

Subgenus: Diastaloba Diastaloba I

Basionym: Frullania serrata ssp. hamatispina S.Hatt. 1974

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia (Ceram)

comb nov	Hattori	1982	495	J Hatt Bot Lab 51: 225 [comb et stat nov]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 118 [New Guinea]
	Hattori	1986	507	J Hatt Bot Lab 60: 248 [Seram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 33-34, fig 2
	Hattori	1988	516	J Hatt Bot Lab 65: 444-445 [PNG]

serrata fo. crispulo-dentata Verd. 1929 1809

Subgenus: Diastaloba Diastaloba I

Basionym:

Distribution: Sri Lanka, Indonesia (Sumatra, Java, Sulawesi, Ceram), Borneo, Philippines, New Guinea

fo nov	Verdoorn	1929	245	Ann Bryol 2: 142-143 [Java, Sumatera]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 87
	Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
	Bonner	1965	655	Index Hepat 5: 427
	Hattori	1976	80	J Hatt Bot Lab 40: 497-498
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Hattori	1982	495	J Hatt Bot Lab 51: 224
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 118 [New Guinea]
	Hattori	1986	507	J Hatt Bot Lab 60: 247 [Ceram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 33, fig 2 [Altitudinal range on Huon Peninsula]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]

serrata Gottsche 1845 772

Subgenus: Diastaloba Diastaloba I

Basionym:

Distribution: Cameroon, Democratic Republic of Congo, Ethiopia, Kenya, Malawi, Mozambique, Rwanda, Sao Tome, Tanzania, Uganda, Zimbabwe, Madagascar, Mauritius, Reunion, Comores, South Africa, Ecuador, ?French Guiana, Brazil, China (Yunnan, Hainan), Taiwan, Japan, Sri Lanka, India (North: Assam, Meghalaya; South: Tamil Nadu (Kodaikanal)), Thailand, Vietnam, Malaysia (Pahang, Johor, Sarawak, Sabah), Borneo, Indonesia (Java, Sumatra, Sulawasi), Philippines (Luzon, Minsanao), Australia (QLD, NSW), Vanuatu (Aoba), New Caledonia, Samoa (Savaii, Upolu), Fiji (Ovalau, Viti Levu), Society (Tahiti), Marquesas

spec nov	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 453-454
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 90-91
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 542
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 313 [Java]
	Sande Lacoste in Veth	1884	807	Midden Sumatra, Reizen en Qnderzoekingen der Sumatra Expeditie, 4 (2): 44 [Sumatra]
	Stephani	1886	944	Bol Soc Broteriana 4: 180 [152] [South Africa]
	Stephani in Renauld & Cardot	1891	1453	Rev Bryol 18 (4): 56 [Madagascar]
	Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 226 [is monoic]
	Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 65 [Usambara (900-1830m), Kamerungebiet, Südwestl. Kapland - Tropenwald, Hochwald]
	Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134, fig 70(a)
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 341-342
	Schiffner	1900	904	Hedwigia 39: 208 [Java]
	Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134, fig 70(a)
	Stephani	1911	686	Spec Hepat 4: 478
	Sim	1926	252	Trans Roy Soc S Africa 15: 45-46, figs [South Africa]
	Verdoorn	1929	245	Ann Bryol 2: 141-142 [Java]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 85-87, fig 125-128(:79) & 149-152(:99)
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 85; Java]
	Verdoorn	1932	232	Ann Bryol 5: 126 [Hepat select crit, ser 3 & 4 no 172-174; Java, Sumatra] & fig 4
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 496 [S-India, Java, Borneo]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 58-59 [Malay Peninsula, Sumatra, Java, Netherl Neu Guinea]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 205 [B.N. Borneo: Mt Kinabalu, Sarawak, Lombok] & 213, fig 14 [map]
	Verdoorn	1937	556	Blumea suppl 1: 212 [Fiji Isl]
	Chopra	1938	933	Proceed Indian Acad Sci, sect B, 7 (5): 249 [South India]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Clark & Svihla	1948	325	Bryologist 51: 26 [key to Fr. of Middle America: Jamaica, Puerto Rico, Martinique (Africa, Sao Thome, Madagascar, India, Indo-Malayan archipelago, Ceylon, islands of the Pacific)]
	Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 317 [Borneo, Sarawak]
	Vanden Berghen	1953	446	Svensk Bot Tidskr 47 (2): 266-267 [Tanganyika]
	Arnell	1956	836	Ark Botanik 3 (16): 531-532 [East African mountains]
	Vanden Berghen	1961	1507	Bull Soc Roy Bot Belg 93 (1-2): 73 [Ruanda]
	Parihar	1962	1584	Univ Allahabad studies, Bot sect 1-2: 19 [India: SI]
	Arnell	1963	822	Hepat S Africa: 154, fig 113(a-e)
	Bonner	1965	655	Index Hepat 5: 427
	Campbell	1971	674	J Roy Soc New Zealand 1 (1): 12 [Fiji]
	Grolle & Schultze-Motel	1972	537	J Hatt Bot Lab 36: 84 [Samoa]
	Hattori	1973	540	J Hatt Bot Lab 37: 71-75, fig 33-35
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 79 [Borneo, Mt. Kinabalu; Java, Bogor Mt. Tjibodas]
	Hattori	1974	544	J Hatt Bot Lab 38: 171-173 [Luzon]
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 116
	Hattori	1975	547	J Hatt Bot Lab 39: 300
	Hattori	1976	80	J Hatt Bot Lab 40: 497
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 355 [map of Africa]
	Hattori	1976	1731	-In. P. Kachroo (ed.), Recent Advances in Botany: 68 [Luzon, Philippines]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 107-114, fig 27
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 443 [Thailand]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 193 [Assam]

Hattori	1979	129	J Jap Bot 54 (1): 25 [Sri Lanka]
Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East Africa;]
Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 66-68, pl 9, map 8, [Brasil, Rio Grande do Sul]
Onraedt & Cremers	1980	75	Crypt Bryol Lichen 1 (3): 274 [French Guiana]
Onraedt	1981	5794	J Hatt Bot Lab 50: 203 [Sri Lanka]
Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 114 [Taiwan]
Hattori	1982	495	J Hatt Bot Lab 51: 223-224 [F. serrata-complex]
Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 208 [key to Madagascar] & 221
Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 137-138
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
Yano	1984	501	J Hatt Bot Lab 56: 506 [checklist Brazil]
Hattori	1984	682	Crypt Bryol Lichen 5(1-2): 185-187, fig 4(a-n) [Australia, Queensland]
Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 13, microfiche 56 fig 3887 ["Madagascar, Camboué, Renauld 161; auch Java, Celebes, Bourbon"] - 3888
Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
Hattori	1985	505	J Hatt Bot Lab 59: 160 [China]
Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 16 [Fiji]
Hattori	1986	506	J Hatt Bot Lab 60: 229-230 [New Caledonia] [close to cordistipula]
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304 [Philippines]
Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: QLD, NSW]
Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
Hattori	1988	516	J Hatt Bot Lab 65: 431 [key to serrata & grolleana]
Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 209 [French Guiana ?]
Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
Piippo	1990	521	J Hatt Bot Lab 68: 47 [annotated catalogue of China]
Chao & Lin	1991	458	Yushania 8: 15 [Taiwan]
Chao & Lin	1992	460	Yushania 9: 207, fig 17(a-h) [Taiwan]
Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
Fischer	1993	309	Trop Bryol 8: 95 [key to species in eastern Zaire & Rwanda]
Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire, Rwanda]
O'Shea	1993	985	J Bryol 17: 648 [Malawi]
Koike	1994	37	J Hatt Bot Lab 75: 190 [Micronesia]
Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [South India]
Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar, Reunion Isl]
Grolle	1995	250	Bryophyt Bibl 48: 68-69 [afr3]
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 91 [Catalogue ... of Sub-Saharan Africa]
Lin & Chen	1997	1130	Biol Bull 75: 104, fig 19(a-d) [Taiwan, key to species, in Taiwanese]
Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [French Guiana ?]
Furuki	1997	1689	J Nat Hist Mus Inst Chiba 4(2): 104 [Iwo (Volcano) Islands, Northwestern Micronesia]
Nath & Asthana	1998	708	J Hatt Bot Lab 85: 66-68, fig 2(1-15) [South India; key to all spec.]
Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China]
Nath & Asthana	1998	683	J Bryol 20(1): 233 [South India]
Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
Yuzawa	2000	1659	Natural Environmental Sci Res 13: 18, fig 15(a-j) [Japan, keys to species; in Japanese]
Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: São Tomé]
Bapna & Kachroo	2000	712	Hepaticology in India II: 194-195, fig 174(a-d)
Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 131, fig. 58(4-8)
Lin	2000	1524	Liverwort Flora Taiwan: 174, fig 174(1-3) [Taiwan]
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 431, fig 216(1-8) [China, Yunnan]
Bai	2001	1742	Guizhou Science 19(4): 50 [China, Yunnan]
Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]

	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 6 [Mulanje Mt, Malawi]
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 280, map 11 - Unpublished thesis.
	Bai	2002	1189	Chenia 7: 22 [Yunnan, China]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Cameroun, Comores, Ethiopia, Kenya, Mauritius, Madagascar, Malawi, Mozambique, Reunion, Rwanda, South Africa, Sao Tome, Tanzania, Uganda, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Bytebier & Chuah-Petiot	2002	1076	Trop Bryol 22: 63 [Taita Hills, Kenya]
	Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [Brazil]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (QLD, NSW)]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1134, fig 532(1-8) [China]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 402, 416 [Podocarpus NP, Ecuador, epiphytic]
	Wigginton	2004	1172	Sript Bot Belg 30: 221-223, fig 145(A-Q) [West Africa]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Nöske	2004	1383	Kryptogam Epipyten S-Ecuador [Thesis Goettingen]: 124 & 132
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Cameroun, Comores, Ethiopia, Kenya, Mauritius, Madagascar, Malawi, Mozambique, Reunion, Rwanda, South Africa, Sao Tome, Tanzania, Uganda, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 94 [Ecuador; Podocarpus NP]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
	Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 32 [Catalog of Japan]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW]
	Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Pantropical, lowland & montane]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 77, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 50 [Brazil]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 248(1-8) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Schäfer-Verwimp, Peralta & Costa Siqueira	2012	3323	Phytotaxa 57: 27-30 [Key to the species of Frullania subg. Diastaloba from Brazil]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4 [Sri Lanka]
	Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
	Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 26-28, fig 8(a-g) [checklist & revision of genus Fullania, Thailand]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 196-197 [name excluded from Brazil, specimens proved to be exilis] (?? Fr subtilissima - Annot.GWI]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 383 [Ecuador: ZC (Reserva Biólogica San Francisco; Nöske et al. 2003), probably is F. lindenbergii]

serrata ssp. grolleana (S.Hatt.) S.Hatt. 1982 2200

Subgenus: Diastaloba Diataloba 1

Basionym: Frullania grolleana S.Hatt. 1972

Distribution: New Guinea

comb nov	Hattori	1982	495	J. Hattori Bot. Lab. 51: 225 [comb. et stat. nov.]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]

serrata var. ceramensis S.Hatt. 1986 1811

Subgenus: Diastaloba Diastaloba I

Basionym:

Distribution: Indonesia (Ceram)

	Hattori	1986	507	J Hatt Bot Lab 60: 247

serrata ssp. spinistipula (S.Hatt.) S.Hatt. 1982 1817

Subgenus: Diastaloba Diastaloba I

Basionym: Frullania spinistipula S.Hatt. 1972 [hom illeg] [non Steph. 1911]

Distribution: Papua New Guinea, indonesia (irian Jaya)

Hattori	1982	495	J Hatt Bot Lab 51: 225-226 [comb et stat nov]
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 118-119 [New Guinea]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 35, fig 2
Hattori	1988	516	J Hatt Bot Lab 65: 445-44 , fig 9

serrata var. oceanica Verd. 1937 2100

Subgenus: Diastaloba Diataloba 1

Typus: Samoa. Savai'i, Tuisivi Range 1600-1700m -.9.1929, E. Christophersen

Basionym:

Distribution: Samoa (Savaii)

Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
Verdoorn	1937	556	Blumea suppl 1: 212 [Samoa]
Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 138

serrata fo. vogelkopensis S.Hatt. 1982 1810

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Irian Jaya, Manokwari "Vogelkop Pen", Mt. Saru-mot, 2320m -.1.1962, H. Sleumer & W. Vink 4466

in hb NICH [holotypus], in hb BM, JE, L [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

Hattori	1982	495	J Hatt Bot Lab 51: 224, fig 1
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 23 [Cat. West Melanesia]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 33
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Holotype. New Guinea, Vogelkop Pen., Mt. Sarumot. 2320 m. 26 Jan. 1962. H. a. Sleumer & W. Vink 4466 (NICH 328389). Isotype specimens: NICH 354650 & NICH 354837.

serrifolia Steph. 1911 1821

Subgenus: Incertae sedis

Typus: Cuba. sd, Wright 118

in hb G

Basionym:

Distribution: Cuba

spec nov	Stephani	1911	686	Spec Hepat 4: 526-527
	Bonner	1965	655	Index Hepat 5: 427 [type sub Fr. leprieurii var wrightii]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-124, microfiche 58 fig 4051 [Cuba, Wright"]

setacea S.Hatt. 1988 1822

Subgenus: Diastaloba Diastaloba I

Typus: papua New Guinea. Central, around Woitape, 1500m 6.10.1975, HI 30352

in hb NICH [holotypus], in hb TNS [isotypus]

Basionym:

Distribution: Papua New Guinea

hattori	1988	516	J Hatt Bot Lab 65: 447-44 , fig 10
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Holotype. New Guinea, Woitape. 1500 m. 16 Oct. 1975. H. Inoue 30352 (NICH 428180). Isotype specimen: NICH 431947.

setchellii Pearson 1923 1823

Subgenus: Trachycolea

Typus: New Zealand. near Waiotapu 1904, Setchell 159

in hb UC 213713

in hb UC [typus, lost] lost on loan to ? late Frans Verdoorn 6.viii.1929 at Utrecht; New Zealand

Basionym:

Distribution: New Zealand

spec nov	Pearson	1923	796	Univ California Publ Bot 10 (4): 326-327, pl 102 (1-14) [New Zealand]
comb nov	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 367-368 [comb nov, as Fr. falciloba var setchellii]
	Bonner	1965	655	Index Hepat 5: 427
	Hamlin	1972	659	Rec Dominion Mus 7(19): 263 [New Zealand]
	Hodgson	1972	3468	J Roy Soc New Zealand 2 (1): 110 [syn. sub Fr. banksiana]
	Hamlin	1973	656	Rec Dominian Mus 8 (10): 143 [New Zealand]
	Hattori	1983	499	J Hatt Bot Lab 54: 168-170, fig 66
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	N.N.	2003	978	http://ucjeps.berkeley.edu/bryolab/moss_types.html [type in hb UC; lost]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	Engel, von Konrat, Glenny	2023	6397	Acta Biologica Plantarum Agriensis 11(1): 251, 1-4 [New Zealand, with key]

setigera Steph. 1894 1825

Subgenus: Meteoriopsis Intumescentes

Typus: Brazil. San Francisco sd, Ule 233 /or/ 234

in hb G (13665) or (026698) [holotypus]

Basionym:

Distribution: Mexico, Guatemala, Costa Rica, Panama, Ecuador, Trinidad, Brazil

spec nov	Stephani	1894	228	Hedwigia 33: 159-160
	Dusen	1905	710	Arch Mus Nac Rio de Janeiro 13: 116 [Brasil]
	Stephani	1911	686	Spec Hepat 4: 507
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 88 [Perianth]
	Bonner	1965	655	Index Hepat 5: 428
	Stotler	1969	4761	Nova Hedwigia 18: 466-467, pl 30 (257-264)
	Stotler	1970	194	The genus Frullania, separata: 446-447, pl 30 (257-264)
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 69-72, pl 10, map 9, [Brasil, Rio Grande do Sul]
	Cole	1983	1407	Brenesia 21: 154 [Costa Rica]
	Yano	1984	501	J Hatt Bot Lab 56: 506 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 91ab, microfiche 58 fig 4008 ["Brasilia subtropica, Ule 233"] - 4009
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 46 [Mexico]
	Morales Z.	1991	307	Trop Bryol 4: 38 [Costa Rica]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 30 [Rio de Janeiro, Brazil]
	Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 81 & 93 [Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [Brazil]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Uribe-M.	2004	1238	Trop Bryol 25: 30-31, fig 2(a-h) [evaluation of taxonomy; to subg Thyopsiella]
	Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
	Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 284 [Rio de Janeiro State, Brazil]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 50 [Brazil]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 372, fig 11(a-h) [Colombia; synopsis of Frullaniacae & keys]
	Benitez, Gradstein et alii	2012	3809	Tropical Bryology 34: 102 [Ecuador, nueva para Ecuador - Loja: Parque Nacional Podocarpus, bosque nubiado alto montano.
	Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 24 [Ecuador]
	Schäfer-Verwimp	2014	3977	Phytotaxa 172(3):214 [Panama]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [new to Colombia]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 179-183, fig. 22 [distribution]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 379, fig. 39k,l [key -Ecuador, Colombia]

shanensis Svihla 1957 1826

Subgenus: Trachycolea

Typus: Burma. Shan States, Maymyo, Circular Road, 3500ft 9.8.1952, Svihla 1112
in hb Univ of Washington

Basionym:

Distribution: Burma, Thailand, Nepal, India (North: West Bengal (Darjeeling))

Svihla	1957	384	Bryologist 60: 359-363, fig 1-20
Hodgson	1965	6288	Trans Proc Roy Soc New Zealand, Bot 3 (4): [syn with Fr. pentapleura]
Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 452 [Thailand]
Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 68-69 [Darjeeling, Burma]
Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 132 [India]
Hattori	1983	499	J Hatt Bot Lab 54: 159 [not syn with Fr. pentapleura]
Bapna & Kachroo	2000	712	Hepaticology in India II: 197
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Paratype. burma, Maymyo, Circular Road. 2 Aug. 1952. R. D. Svihla 52-1107 (NICH 288333).
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 51-53, fig 22(a-f) [checklist & revision of genus Fullania, Thailand]

sharpantha Udar & Ad.Kumar 1983 1828

Subgenus: Trachycolea

Typus: India. Darjeeling, Tanglu 13.5.1972, R. Udar et party
in hb LWU [LWG] 6823/72 [holotypus], in hb NICH [isotypus]

Basionym:

Distribution: India (North: West Bengal (Darjeeling))

Udar & Kumar	1983	423	Misc Bryol Lichen 9 (9): 192-194, fig (1-17)
Nath & Udar	1984	442	Proc Indian Natn Sci Acad, B 50 (2): 233
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya] - new species from Eastern Himalayas (Udar & Kumar 1983)
Bapna & Kachroo	2000	712	Hepaticology in India II: 181

sharpii S.Hatt. 1974 1829

Subgenus: Trachycolea

Typus: Philippines. Luzon, Mt. Data, mossy forest, 2100-2300 m 7.6.1965, Schuster ISE 13699
in hb NICH [typus], in hb TENN [isotypus]

Basionym:

Distribution: Philippines (Luzon)

Hattori	1974	544	J Hatt Bot Lab 38: 180-183, fig 5(a-j) [Luzon]
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 304-305 [Philippines]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 35: Holotype. Philippines, Luzon I., Mountain Prov., Mt. Data. 2100-2300 m. On tree trunk. 7June 1965. Z. Iwatsuki, A. J and Evelyn Sharp 13699 (NICH 266072).

sharpii ssp. subrostrata S.Hatt. 1974 1656

Subgenus: Trachycolea

Typus: Papua New Guinea. Simbu, Upper Chimbu-valley, 2100-2200m 1968, van Zanten 68-2950/e5
in hb JE [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution:

ssp nov	Hattori	1974	546	J Hatt Bot Lab 38: 265-267, fig 135
	Hattori	1982	495	J Hatt Bot Lab 51: 256
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 36: Isotype. New Guinea, E. Highlands, Upper Chimbu-valley. 2100-2200 m. On shady treestem. 1968. B. 0. van Zanlen 68-2950/e5 (NICH 432030).

sheana S.Hatt. 1979 1830

Subgenus: Diastaloba Diastaloba I

Typus: Australia. Queensland, Atherton Tableland, the Crater NP, 1200m 25.6.1975, Garry Shea 6936
in hb NICH [holotypus], in hb SHEA [isotypus]

Basionym:

Distribution: Australia (QLD)

	Hattori	1979	485	J Hatt Bot Lab 45: 356-358, fig 24(a-i)
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 15 [initial branching appendages]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia qld]

shewanensis K.Feldberg, V.Bouju, Schäf-Verw. & A.R.Schmidt 2021 2534

Subgenus:

Typus: Miocene Ethiopian amber

Basionym:

Distribution:

	Bouju et al	2021	5217	Journal of Systematics and Evolution doi: 10.1111/jse.12796

simmondsii Steph. 1914 1831

Subgenus: Diastaloba Diastaloba I

Typus: Australia. QLD, near Brisbane. 27.8.1887, J.H. Simmonds
hb W.W. WATTS 1110, in hb G 18229 [typus]
in hb NSW [isotypus]

Basionym:

Distribution: Australia (QLD)

spec nov	Stephani in Stephani & Watts	1914	220	J Proc Roy Soc New S Wales 48: 109 [Australia]
	Stephani	1924	687	Spec Hepat 6: 547 [as spec nov]
	Bonner	1965	655	Index Hepat 5: 428
	Hattori	1979	486	J Hatt Bot Lab 46: 142-143, fig 42(a-f) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-183, microfiche 60 fig 4134 ["Australia, near Brisbane, leg Simmonds 1887, Herb Watts 1913, No 1110"]
	Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 144 [Australia: QLD]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Brown, Ramsay & Seur	1992	1140	Telopea 5(1): 76 [types in hb NSW]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]

sinensis Steph. 1906 1832

Subgenus: Trachycolea

Typus: China. Schensi- 28.8.1898, Giraldi

hb LEVIER 2503, in hb G 7970

Basionym:

Distribution: China (Heilongjiang, Gansu, Sichuan, Shaanxi, Hunan, Yunnan, Manchuria), Mongolia, Pakistan (Murree)

spec nov	Stephani in Levier	1906	824	Nuovo Giorn Bot Ital NS 13: 349
	Stephani	1910	686	Spec Hepat 4: 352 [as spec nov; as Chonanthelia]
	Bonner	1965	655	Index Hepat 5: 428
	Hattori	1974	545	J Hatt Bot Lab 38: 203-207, fig 96-97 [is syn nov of Fr. muscicola]
	Hattori	1978	482	J Hatt Bot Lab 44: 540 [not syn with Fr. muscicola; key to sinensis & muscicola]
	Koponen	1979	2204	Ann Bot Fennici 16 (2): 98
	Hattori	1980	489	J Hatt Bot Lab 47: 117-119, fig 235(a-i) [India]
	Hattori	1980	489	J Hatt Bot Lab 47: 117-118, fig. 235(a-i], found in Murree in Pakisten, not in India
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A-100ab, microfiche 48 fig 3212-3214 {"China Schensi Giraldi 2503"] - 3213 - 3214 ["China Shensi ... Giraldi 2519"]
	Piippo	1990	521	J Hatt Bot Lab 68: 47 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52 [Sichuan]
	Rao, Enroth, Piippo & Koponen	1997	685	Hikobia 12: 184 [checklist Hunan]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 387-389 [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 124, fig. 55(8-9)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 181-182
	Bai	2001	1742	Guizhou Science 19(4): 45, fig 8(9-14) [China, Yunnan]
	Bai	2002	1189	Chenia 7: 17-19, fig 8(9-14) [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1097, fig 510(9-14) [China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 236(9-14) [key in Chinese]

sinskeana J.J.Engel & B.C.Tan 1986 2473

Subgenus: Trachycolea Australes

Typus: Australia. "New England", Mt. Duval near Armidale 4.11.1903, W:W: Watts 760pp

hb LEVIER 4785, in hb G 18450 [typus]

Basionym: Frullania spathulistipa Steph. 1910 [non (Reinw., Blume & Nees) Lindenb. 1838]

Distribution:

nom nov	Tan & Engel	1986	J. Hattori Bot. Lab. 60: 335, Nom. nov. pro Frullania spathulistipa Steph. 1910, nom. illeg.

sinuata ssp. novoguinensis fo. parvistylata S.Hatt. 1975 682

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea. PNG. Western Highlands, Kubor Range, 11700ft 1963, Pulle

in hb L (HLB 965.11-047) [holotypus], in hb NICH [isotypus]

Basionym:

Distribution:

fo nov	Hattori	1975	547	J Hatt Bot Lab 39: 304
	Hattori	1982	495	J Hatt Bot Lab 51: 227
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 29
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 36: Isotype. Papua New Guinea, Kubor Range. 11700 ft. On Drimys. 20 July 1963. Pullen 5080 (NICH 431964).

sinuata ssp. novoguinensis S.Hatt. 1975 679

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea. PNG. Northern. Isuarava, 4500ft 1936, Carr 15391

in hb L (HLB 937.162-27) [holotypus]
n hb NICH [isotypus]

Basionym:

Distribution: New Guinea (endemic)

ssp nov	Hattori	1975	547	J Hatt Bot Lab 39: 301-304, fig 149, 150
	Hattori	1982	495	J Hatt Bot Lab 51: 227
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 36: Isotype. New Guinea, Isuarava. 4500 ft. Forest on a tree. 5 Feb. 1936, C. E. Carr 15391 (NICH 431954). Another isotype specimen: NICH 431958.

sinuata fo. parvistylata S.Hatt. in Grolle & Piippo 1984 2201

Subgenus: Diastaloba Diastaloba I

Basionym:

Distribution: New Guinea

	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]

sinuata Sande Lac. 1853 1838

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Sumatra, "in monte Lubu Raja" sd, Junghuhn

hb DZ & MB, in hb L (hb Lugd Bat 910.291-442)
INDONESIA. Java: s. loc. spec., inter Plagiochilam abietinam, Junghuhn s. n. & s. d., Herb. Lugd. Bat. 910.291-442 (L).

Basionym:

Distribution: Thailand, Vietnam, Malaysia (Johor, Pahang), Indonesia (Java, Sumatra, Sulawesi), Philippines, New Guinea (Papua New Guinea, Irian Jaya)

Sande Lacoste	1855	2038	Nederl Kruidk Arch 3: 424
Sande Lacoste in Dozy	1856	564	Plagiochila sandei Dozy: 11
Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 540-541
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 87, pl 17
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 342-343
Stephani	1911	686	Spec Hepat 4: 654
Verdoorn	1929	245	Ann Bryol 2: 149 [Java, Sumatra]
Verdoorn	1930	293	Ann Bryol Suppl 1: 119-120, fig 190-193
Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 38; Java] & 136-137, fig 5
Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 60 [Malay Peninsula, Sumatra, Java, Netherl New Guinea]
Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 498 [Celebes]
Verdoorn	1934	241	Ann Bryol Suppl 4: 208 [Sumatra, Malay Halbinsel, Philippinen]
Bonner	1965	655	Index Hepat 5: 429
Pocs, Tixier & Jovet-Ast	1967	1710	Bot Kozlem 54 (1): 30 [North Vietnam]
Hattori	1973	541	J Hatt Bot Lab 37: 85-89, fig 43-45
Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 116-117
Hattori	1975	547	J Hatt Bot Lab 39: 301
Hattori	1982	422	Misc Bryol Lichen 9 (6): 124 [New Guinea]
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
Schuster	1985	441	Phytologia 57 (5): 371 [sect Sinuatae (of sgen Diastaloba) - type species for nov sect]
Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-82, microfiche 49 fig 3329 ["Java, Sande Lacoste leg, Original"]
Hattori & Piippo	1986	557	Acta Bot Fennica 133: 35
Hattori	1986	507	J Hatt Bot Lab 60: 250
Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 305 [Philippines]
Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Asiatic, montane]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 28-30, fig 9(a-g) [checklist & revision of genus Fullania, Thailand]

socotrana Mitt. 1888 1839

Subgenus: Trachycolea Australes

Typus: Socotra -.2.1880 - -.3.1880, Balfour, Cockburn & Scott 1464

in hb K 1893 [holotypus], in hb G 17316 [holotypus & lectotypus ?]

Basionym:

Distribution: Cape Verde Isl, Cameroon, Democratic Republic of Congo, Kenya, Mozambique, Socotra, Tanzania, Uganda, Madagascar, ? Mauritius, South Africa (Cape), Lesotho, Socotra, Yemen Rep

spec nov	Mitten in Balfour	1888	2093	Trans Roy Soc Edinburgh 31: 335-336, pl 99 fig c(1-5)
	Balfour	1888	4133	Botany of Socotra (Full paper)
	Stephani	1910	686	Spec Hepat 4: 368
	Stephani in Brunnthaler	1913	219	Denkschr K Akad Wiss, Math Nat Kl, Wien 88: 729 [Kapland: Zwartkops bei Port Elizabeth]] doubted by SIM 1926
	Sim	1926	252	Trans Roy Soc S Africa 15: 43 [identification of Zwartkops specimen by BRUNNTHALER 1913 is doubted]
	Demaret & Vanden Berghen	1947	1101	Bull Jard Bot Etat Bruxelles 18: 236-237, fig 36(a-b) [Socotra, Afrique australe, Madagascar]
	Arnell	1961	54	Bot Not 114 (2): 177-178 [Cape Verde Isl]
	Arnell	1963	822	Hepat S Africa: 143-145, fig 106(a-h)
	Bonner	1965	655	Index Hepat 5: 429
	Vanden Berghen	1972	249	Expl Hydrobiol Bassin Bangweolo et Luapula 8 (1): 72-73, fig 28(a-e)
	Augier	1974	821	Annales de la Faculté des Sciences du Cameroun 17: <67-93> [Cameroon]
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 360 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 139-143, fig 35 [Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 213 [key to Madagascar]
	Eggers	1982	22	Crypt Bryol Lichen 3 (4): 289 [Macaronesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 37, microfiche 50 fig 3389 [from type; "Socotra, Balfour 1464, Herb Kew"]
	Frey & Kürschner	1988	1119	Nova Hedwigia 46 (1-2): 77 [Arabian Peninsula & Socotra]
	Frey & Kürschner	1991	1033	Bryophyt Bibl 39: 31 [Yemen Rep]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire]
	Grolle	1995	250	Bryophyt Bibl 48: 69 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 91-92 [Catalogue ... of Sub-Saharan Africa]
	Frahm, Lindlar, Sollman & Fischer	1996	301	Trop Bryol 12: 129 [Cape Verde Isl]
	Dilg & Frahm	1997	645	Trop Bryol 13: 38 [South Africa, Drakensberge]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Porley, O'Shea, Wigginton, Matcham, Hodgetts & Stevenson	1999	711	Trop Bryol 16: 183-184 [Uganda]
	Hodgetts, Matcham & Duckett	1999	754	J Bryol 21: 142 [Lesotho]
	Kürschner	2000	737	Bryophyt Bibl 55: 39 [Socotra], map 45
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Cameroun, Cape Verde, Kenya, Lesotho, Madagascar, Mozambique, South Africa, Socotra, Tanzania, Uganda, DR Congo] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Kürscher	2003	1099	Willdenowia 33: 454 [checklist of Socotra]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Cameroun, Cape Verde, Kenya, Lesotho, Madagascar, Mozambique, South Africa, Socotra, Tanzania, Uganda, DR Congo] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Kürschner	2004	1290	Bot Jahrb Syst 125(3): 377-395 [Socotra]
	Wigginton	2004	1172	Sript Bot Belg 30: 233-234, fig 154(A-M) [allied to Fr obscurifolia, West Africa]

solanderiana Colenso 1889 1842

Subgenus: Trachycolea Australes

Typus: New Zealand. County of Waiupawa, Dannevirke 1888, W. Colenso 1346

in hb K

Basionym:

Distribution: New Zealand

spec nov	Colenso	1889	636	Trans Proc New Zealand Inst 21: 75-76
- syn nov	Stephani	1892	210	J Linn Soc Bot 29: 274 [as Fr. solanderi syn sub Fr. cranialis]
	Bonner	1965	655	Index Hepat 5: 429
	Hamlin	1972	659	Rec Dominion Mus 7(19): 263 [New Zealand]
	Hattori	1983	499	J Hatt Bot Lab 54: 170-172, fig 67
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Cameron	1999	902	Auckland Bot Soc J 54 (2): 53 [New Zealand]
	Konrat, Braggins & Harris	1999	1246	Bryologist 102(2): 240-248 [new technique to investigate the capsule wall]
	Rogan	2000	1329	Auckland Bot Soc J 55: 97 [New Zealand]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 443-444 [chemosystematic; 2-alkanone-type]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]

sp. nov. 1 2492

Subgenus:

Typus: BRASIL. Roraima: Amajari, Serra de Tepequem, planalto das Guianas, trilha para a Cachoeira Barata, mata de galeria, sobre tronco vivo
N, 61o45T0" W, 576 m, 08 Set 2017, Peralta, D.F. et ai. 21634

holótipo SP482832
isótipo MG

Basionym:

Distribution:

	Lima	2019	5121	Frullania no Brasil [Thesis]: 193-194, fig. 24 [distribution], 26(a-m)

speciosa Herzog 1949 1847

Subgenus: Meteoriopsis Intumescentes

Typus: Brazil. "loco incerto" an Bäumen sd, Pater Böhner 093

in hb JE [holotypus]

Basionym:

Distribution: Brazil

	Herzog	1950	1695	Mem Soc Faun Fl Fennica 25: 59-61, fig 11(a-g) 12(a-d)
	Bonner	1965	655	Index Hepat 5: 430
	Yano	1984	501	J Hatt Bot Lab 56: 507 [checklist Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 89 [Brazil] [may be syn sub Fr mucronata]
	Müller & Zündorf	2007	1442	http://www2.uni-jena.de/biologie/spezbot/herbar/bryotypes/Uebersicht%20F.htm
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 183-185, fig. 22 [distribution]
	Peralta et al	2020	6211	Frullaniaceae in Flora do Brasil 2020, fig

spegazzinii M.E. Reiner 1988 2275

Subgenus: Chonanthelia

Typus: Argentina. Prov Buenos Aires, Pdo Lomas de Zamora, Santa Catalina 26.10.1986, Reiner 536

in hb BA (33948) [holotypus]

Basionym:

Distribution: Argentina (Entre Ríos, Buenos Aires)

spec nov	Reiner	1988	1043	Bol Soc Argentina Bot 25 (3-4): 310-312, fig 4(a-n) [Argentina, Prov Buenos Aires]

sphaerantha S.Hatt. 1980 1848

Subgenus: Trachycolea

Typus: India. Assam. K & J Hills, Nawphlang, 22 km fron Shillong, 6000ft 9.4.1965, Z. Iwatsuki, A.J. & Evelyn Sharp 7503
in hb NICH [holotypus], in hb TENN [isotypus]

Basionym:

Distribution: India (North: Assam, Meghalaya (Shillong))

spec nov	Hattori	1980	489	J Hatt Bot Lab 47: 99-101, fig 226(a-a-n)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 182
	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 282-283, map 11 - Unpublished thesis.
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 78, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 36: Holotype. India, Assam, Mawphlang, 22km from Shillong. 6000 ft. On tree trunk. 9 Apr. 1965. Z. Iwatsuki, A. J. & Evelyn Sharp 7503 (NICH 261517).
	Schäfer-Verwimp & Winter	2020	5751	Frahmia 20: 11 [key with Fr bhutanensis & dasyueshanensis]

sphaerocephala Spruce 1884 330

Subgenus: Chonanthelia Cladocarpicae

Typus: Ecuador. Azuay, Mt. Azay, 3000m. "Andes Quitensis" sd, Spruce sn
in hb MANCH [hb SPRUCE = holotypus; hb PEARSON = isotypus]
in hb G [isotypus]
in hb US
in hb E E00002581 [isotypus]

Basionym:

Distribution: Costa Rica, Ecuador, Colombia, Peru

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 11 & 17 (No 4), pl. 1
	Stephani	1910	686	Spec Hepat 4: 336
	Bonner	1965	655	Index Hepat 5: 430
	Haarbrink	1981	49	Lindbergia 7 (1): 50-52, fig. 1, 7-13 [Colombia, High Andes]
	Yuzawa	1984	502	J Hatt Bot Lab 57: 399-401 (No 13), Fig 13(a-n) [type of Fr. lehmanniana]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 49, microfiche 47 fig 3139-3140 ["Am trop (Andes quitenses leg Spruce"]
	Yuzawa, Mues & Hattori	1987	509	J Hatt Bot Lab 63: 425 - 436 [morphology & systematics]
	Asakawa & Inoue	1987	952	Studies on cryptogams in Southern Peru, Tokyo: 111 [chemical constituents]
	Inoue	1987	951	Studies on cryptogams in Southern Peru, Tokyo: 77, pl 2(fig 2) [oil bodies]
	van Zanten & Gradstein	1988	88	Nova Hedwigia Beih 90: 58 [experimental dispersal geography]
	Morales Z.	1991	307	Trop Bryol 4: 39 [Costa Rica; ? cf. sphaerocephala]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 276-278, fig. 49, map 5d(:284
	Wolf	1993	2379	Phytocoenologia 22(1): 54 [Colombia, Epiphyte - Upper montane rain forest communities: canopy community]
	NN	1996	632	gopher://nmnhgoph.si.edu:70/77/.index/nonflwr [2.4.1996] - keyword=Frullania, printed 5.1.1998, # 29 of 35 [in hb US]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Gradstein	1999	5901	Mem N York Bot Gard 84: 68 [Peru, Paramos]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 2700-4000m: Costa Rica, Colombia, Ecuador, Peru]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 445-446 [Colombia]
	Pinzon & Linares	2001	1148	Caldasia 23(1): 241 [Colombia, La Herrera]
	Holz	2003	1185	Diversity Ecology Montane Quercus Forest, Costa Rica [Dissertation]: 46 [paramo]
	Holz	2004	1184	[checklist of Costa Rica] http://asbot.botanik.uni-greifswald.de/personal/holz/bryo_cr/blank.htm
	Holz & Gradstein	2005	1408	J Biogeogr 32: 1595 [Costa Rica: Cordillera de Talamanca]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Howarth	2011	5110	Thesis: 253 [Peru, epiphytic cloud forest]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 372 [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
	Gradstein	2021	5642	Mem NY Bot Gard 121: 379, fig. 39m-o [key -Ecuador, Colombia]

sphaerolobulata S.H.Lin 1997 2301

Subgenus: Trachycolea

Typus: Taiwan. Taitung Cty, Haiduan Hsiang, 2800m 8.5.1983, Chiang 4101A in hb TUNG [holotypus]

Basionym:

Distribution: Taiwan (endemic)

spec nov	Lin & Chen	1997	1130	Biol Bull 75: 104-107, fig 20a(a-t), 20b(a-l) [Taiwan, in Taiwanese]
	Lin	2000	1524	Liverwort Flora Taiwan: 174-175, fig p 175(1-20) [Taiwan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

spicata (Lehm. & Lindenb. in Lehm.) Lehm. & Lindenb. 1845 [non Steph. 1910] 1053

Subgenus: Frullania

Basionym: Jungermannia spicata Lehm. & Lindenb. 1833

Distribution: Brazil

spec nov	Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 431
	Ångström	1876	579	Öfversigt K Vetensk Akad Förh 33 (7): 89 [Brazil]
	Stephani	1910	686	Spec Hepat 4: 384 [not syn sub Fr. glomerata; error by BONNER 1965]
	Sanborn	1929	3503	Univ Oregon publ Pl Biol 1(1): 19 [Fr bolanderi listed as Fr spicata] [Oregon]
	Bonner	1965	655	Index Hepat 5: 431[error: by STEPHANI not as syn sub Fr. glomerata]
	Yano	1984	501	J Hatt Bot Lab 56: 507 [checklist Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 87 [Brazil] [? syn sub Fr glomerata]

spinifera Taylor 1846 1849

Subgenus: Trachycolea

Typus: New Zealand, Auckland sd, Dr. Sinclair

in hb HOOKER
in hb GLM (hb LEHMANN) 05962

Basionym:

Distribution: Australia (NSW, QLD), ?Tasmania, New Zealand, Auckland Isl [New Zealand]

spec nov	Taylor	1846	292	London J Bot 5: 407-408
	Taylor in G., L. & N.	1847	2848	Syn Hepat: 776-777
	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 160-161, fig CIV 2 [= monocera; vide Rodway 1919: 135] [New Zealand]
	Hooker	1867	1154	Handbook New Zealand Flora: 536 [New Zealand, N Island]
	Bailey	1888		A Synopsis of the Queensland Flora , Second Supplement, Brisbane: <67-78> [Queensland]
	Watts	1902	1909	Proc Linn Soc New South Wales 27 (2):
	Weymouth	1903	2090	Pap Proc Roy Soc Tasmania for 1902: 125 [Tasmania]
	Stephani	1910	686	Spec Hepat 4: 411
	Watts	1912	1940	unpublished Msc
	Bailey	1913	3470	Compreh catalogue Queensland plants: 675 [Queensland]
	Rodway	1916	914	Papers Proceed Roy Soc Tasmania for 1916: 135 [syn sub Fr. monocera] [Tasmania]
	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 372-373
	Bonner	1965	655	Index Hepat 5: 431
	Hamlin	1972	659	Rec Dominion Mus 7(19): 263 [New Zealand]
	Allison & Child	1975	690	Liverw New Zealand: 211-212, fig(a-e)
	Hattori	1983	499	J Hatt Bot Lab 54: 172-174, fig 68
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-272, microfiche 54 fig 3697 ["Nova Zelandia, Colenso, com Cuacaw No 49"] - 3698
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 145 [Australia: NSW, QLD; Tasmania]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Ratkowsky	1987	695	Papers Proceed Roy Soc Tasmania 121: 158 [Hattori per comm (V): not in Tasmania]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 444 [chemosystematic; bibenzl-type]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (NSW, QLD, TAS)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 2nd of 6 pages [Key to Frullania of New Zealand; throughout]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW TAS]

spinigastria S.Hatt. 1979 1850

Subgenus: Trachycolea

Typus: Australia. Rodriques Pass sd, W:W: Watts 1000b

in hb G 18219

Basionym:

Distribution: Australia (NSW)

Hattori	1979	485	J Hatt Bot Lab 45: 358-359, fig 25(a-h)
Scott & Bradshaw	1986	56	Brunnonia 8 (1): 36 & 145 [Australia: NSW]
Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (NSW)]
Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
McCarthy	2006	1385	Checklist Australian Liverworts [Australia NSW]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 36: Isotype. Australaia, Rodriguez Pass. S.d. W. W. Watts 1000b (NICH 431970).

spiniplica S.Hatt. 1972 1851

Subgenus: Trachycolea

Typus: Papua New Guinea. Eastern Highlands, W of Watabunga 10.6.1967, R.M. Schuster 67-5947/b

in hb NICH [holotypus]
in hb MASS [isotypus]
in hb JE [isotypus]

Basionym:

Distribution: New Guinea [Papua New Guinea]

	Hattori	1972	539	J Hatt Bot Lab 36: 428-429, fig 11
	Hattori	1973	542	J Hatt Bot Lab 37: 151 [New Guinea]
	Hattori	1982	495	J Hatt Bot Lab 51: 260
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 36: Holotype. Papua New Guinea, Central Highlands districtt. Along road from Kundiawa to Goroka, W of Watabunga. 10 June 1967. R. M Schuster 67-5947/b (NICH 309927).

spinistipula Steph. 1911 [non S.Hatt. 1972] 1852

Subgenus: Trachycolea Acutilobae

Typus: New Caledonia. 1908, Franc

ex hb THERIOT, in hb G 14054 (hb STEPHANI 35)

Basionym:

Distribution: New Caledonia

nom nud	Stephani in Paris	1910	911	Rev Bryol 37 (1): 41 [New Caledonia: Isle of Pines]
spec nov	Stephani	1911	686	Spec Hepat 4: 463
	Verdoorn	1930	293	Ann Bryol Suppl 1: 44 [conspecific with Fr. hampeana & monocera]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 [2): 164
	Bonner	1965	655	Index Hepat 5: 431
	Hattori	1977	479	J Hatt Bot Lab 43: 433 [New Caledonia]
	Hattori	1980		: 103
	Hattori	1981	492	J Hatt Bot Lab 49: 381-383, fig 13(e-g), 14 [spec typica for Trachycolea, sect nov Spinistipulae]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 138
	Hattori	1984	503	J Hatt Bot Lab 57: 421
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-184, microfiche 52 fig 3586 ["N Caledonia, leg Franc, ex Herb Theriot 1908"]
	Hattori	1986	506	J Hatt Bot Lab 60: 218

spongiosa Steph. 1894 1853

Subgenus: Trachycolea

Typus: Cameroon. Ekundi-Liongo sd, Dusen 447 [and 440, 839, 871

in hb G 17319, 17320, 17321, 17322 [isotypus]

Basionym:

Distribution: Cape Verde Isl, Angola, Cameroon, Democratic Republic of Congo, Equatorial Guinea (Rio Muni), Ghana, Ivory Coast, Nigeria, Benin, Tanzania, Zimbabwe, Uganda, Madagascar, Seychelles Islands (Mahé Isl), South Africa

spec nov	Stephani	1894	228	Hedwigia 33: 147-148
	Stephani	1901	883	Cat Afr Plants Welwitsch 2 (2): 316 [Angola]
	Stephani	1910	686	Spec Hepat 4: 376
	Arnell	1961	54	Bot Not 114 (2): >176-180<
	Bonner	1965	655	Index Hepat 5: 432
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 167-172, fig 40(A-O)
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 365 [map of Africa]
	Eggers	1982	22	Crypt Bryol Lichen 3 (4): 289 [Macaronesia]
	Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 252 [Ghana]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 38, microfiche 50 fig 3390 [from type; "Kamerun, Dusén 447"]
	Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar, Seychelles Islands (Mahé Isl)]
	Frahm, Lindlar, Sollman & Fischer	1996	301	Trop Bryol 12: 129 [Cape Verde Isl]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 92 [Catalogue ... of Sub-Saharan Africa]
	Sanchez & Perez	1998	700	Trop Bryol 15: 5 [Equatorial Guinea, Rio Muni]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Porley, O'Shea, Wigginton, Matcham, Hodgetts & Stevenson	1999	711	Trop Bryol 16: 184 [Uganda]
	Dilg & Frahm	2000	1239	Trop Bryol 19: 2 [epiphytisch, Benin]
	Gyarmati	2001	772	Crypt Bryol 22 (1): 48 [Ivory Coast]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Benin, Cameroun, Cape Verde, Ghana, Ivory Coast, Madagascar, Nigeria, Rio Muni, South Africa, Seychelles, Tanzania, Togo, Uganda, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 234-235, fig 155(A-M) [West Africa]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Benin, Cameroun, Cape Verde, Ghana, Ivory Coast, Madagascar, Nigeria, Rio Muni, South Africa, Seychelles, Tanzania, Togo, Uganda, DR Congo, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

squarrosula (Hook.f. et Taylor) Gottsche, Lindenb. et Nees 1845 1862

Subgenus: Trachycolea

Typus: New Zealand [type] - Australia. NSW, Yarrangobilly (Caves), Gully above hostel [type] - -.1.1906 W.W. Watts 922 [type]
in hb NSW 251037 [typus]
in hb WELT H007411 (New Zealand, 1888, Colenso W.)
in hb WELT H007473 (NZ, North Island, Hawke's Bay, Dannevirke, 10.2.1887, Colenso W., on Fuchsia excorticata)
& H007409

Basionym: Jungermannia squarrosula Hooker & Taylor 1845

Distribution: Australia (SA, NSW, QLD, VIC), New Zealand, New Caledonia

comb nov	Taylor in G., L. & N.	1845	2850	Syn Hepat: 412
	Mitten in Hooker	1855	560	Antarctic voyage, II. Fl Novae-Zelandiae 2: 160, pl 103(6) [New Zealand]
	Hooker	1867	1154	Handbook New Zealand Flora: 535 [New Zealand, N Island]
	Stephani	1910	686	Spec Hepat 4: 409
	Pearson	1923	796	Univ California Publ Bot 10 (4): 326, pl 101 (1-13) [New Zealand]
	Hodgson	1949	203	Trans Roy Soc New Zealand 77 (3): 364-365
	Bonner	1965	655	Index Hepat 5: 434
	Hamlin	1972	659	Rec Dominion Mus 7(19): 263 [New Zealand]
	Hamlin	1972	659	Records of the Dominion Museum 7 (19): 263, 277
	Allison & Child	1975	690	Liverw New Zealand: 207-208, fig(a-c)
	Hattori	1983	499	J Hatt Bot Lab 54: 174-176, fig 69
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 139
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-273ab, microfiche 54 fig 3699 ["(Frull rotundifolia Colenso) N Zelandia, Colenso 1379"] - 3700 - 3701 ["sub Frull pulvinata Col, Nova Zelandia, Colenso a 1345"]
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 172 & 179 [NSW, ?QLD, ?VIC, New Zealand]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 37 & 145 [Australia: NSW, QLD, VIC]
	Hattori	1986	506	J Hatt Bot Lab 60: 234 [not in New Caledonia]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Ramsay, Downing & Shofield	1990	1143	Cunninghamia 2(2): 301[Australia, NSW, Mt Tomah Bot Garden]
	Downing, Ramsay & Schofield	1991	1144	Cunninghamia 2(3): 378 [Australia, NSW, Jenolan Cave]
	Downing, Oldfield & Selkirk	1995	1141	Cunninghamia 4(1): 135 [Australia, VIC]
	Glenny	1998	1412	Tuhinga 10: 132 [revised checklist of New Zealand]
	NN	2000	1085	http://plantnet.rbgsyd.nsw.gov.au/HerbLink/NSWtypes/srch.html [typetype in NWS]
	Downing & Oldfield	2000	1146	Hikobia 13: 227 [Australia]
	Rogan	2000	1329	Auckland Bot Soc J 55: 97 [New Zealand]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (SA, NSW, QLD, VIC)]
	Asakawa, Toyota, Konrat & Braggins	2003	1054	Phytochemestry 62: 444 [chemosystematic; sesquiterpene lactone-type ?]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Konrat & Brennan	2004	1164	http://www.liverworts.org/dich_key/frul_key.shtml, 3rd of 6 pages [Key to Frullania of New Zealand; throughout]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia SA QLD NSW VIC]
	Engel, von Konrat, Glenny	2023	6397	Acta Biologica Plantarum Agriensis 11(1): 251, 1-4 [New Zealand, with key]

standaertii Steph. 1910 213

Subgenus: Chonanthelia Pluricarinatae

Typus: Peru. "Pérou", Hacienda D´Angasmarca -.2.1905, Abbé Standaert sn.
ex hb E.G. (Paris), in hb G 19797 [holotypus]

Basionym:

Distribution: {High altitude forests of} Peru, Colombia, Bolivia

spec nov	Stephani	1910	686	Spec Hepat 4: 342-343 [Peruvia, Bolivia]
	Bonner	1965	655	Index Hepat 5: 435 [Peru]
	Haarbrink	1981	49	Lindbergia 7 (1): 48-49, fig. 21-27 [Colombia, High Andes]
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 81, microfiche 47 fig 3185-3186 [from type; "Peruvia (Standaert leg)"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 223-224, fig. 22, map 5 c(:284) [key to standaerti & albertii] [High altitude forests of Peru, Colombia and other areas in tropical regions of Latin America]
	Wolf	1993	2380	Phytocoenologia 22(1): 20 [Colombia, Epiphyte - Lower montane rain forest communities]
	Wolf	1993	2379	Phytocoenologia 22(1): 64 [Colombia, Epiphyte - Upper montane rain forest communities: accidental with preference for the Lower Mountain rain forest]
	Kürschner & Parolly	1998	681	Nova Hedwigia 66 (1-2): 80 [Peru] [as standaertii]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 446 [Colombia]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 372 [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.: 301
	Gradstein	2021	5642	Mem NY Bot Gard 121: 380, fig. 39p [key -Ecuador, Colombia]

steereana S.Hatt. 1987 1870

Subgenus: Diastaloba Diastaloba I

Typus: Australia. Queensland, Murray Falls, Kennedy, on tree at top of falls in gully in tropical rainforest 13.9.1985, G.A.M. Scott
in hb NICH 402306 [holotypus]
in hb MUCV 7540 [isotypus]

Basionym:

Distribution: Australia (QLD)

Hattori	1987	402	Mem NY Bot Gard 45: 553-554, fig 6
Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (QLD)]
Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 24 [rare, only type collection, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. Australia, Murry Falls. Tropical rain forest in gully, on tree of top of falls. 13 Sept. 1985. G. A. M. Scott 7540 (NICH 402306).

stenostipa Spruce 1884 214

Subgenus: Chonanthelia Pluricarinatae

Typus: Ecuador. Pichincha bei Quito, 3000 m "in cortice" sd, Spruce sn
in hb G [isotypus]
Basionym:

Distribution: Costa Rica, Bolivia, Ecuador, Peru, Chile

spec nov	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 14 & 29 (No 18)
	Stephani	1910	686	Spec Hepat 4: 341-342
	Bonner	1965	655	Index Hepat 5: 435
	Menzel	1984	142	Willdenowia 14: 506 [not in Peru, but in Ecuador - error by Stephani 1910: 342,]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 82, microfiche 47 fig 3187 [from type; "Pichincha leg Spruce"]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 225-226, fig. 23, map 5 a(:284)
	Holz, Gradstein & Heinrichs	2002	1404	Bryologist 105(3): 336-337 [Costa Rica]
	Holz	2003	1185	Diversity Ecology Montane Quercus Forest, Costa Rica [Dissertation]: 46, 76, 114, 150 [upper montan oak forest, in mats]
	Holz & Gradstein	2005	1408	J Biogeogr 32: 1595 [Costa Rica: Cordillera de Talamanca]
	Dauphin	2005	1360	Tropical Bryology 26: 141-218 [Catalogue of Costa Rican Hepaticae and Anthocerotae]
	Romanski	2007	3866	Thesis [Peru, epiphytic in lower montane rainforest]
	Romanski et al.	2011	3486	Supplementary list to Bryologist 114(4): <720-731> [Peru]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 380, fig. 39q,r [key -Ecuador]

stipatiloba Steph. 1894 145

Subgenus: Diastaloba Diastaloba I

Typus: Chile, Valdivia 1887/88, H. Hahn
hb JACK 252, in hb G
Basionym:

Distribution: Juan Fernandez Isl [Chile], Chile (Chiloe), Argentina (Patagonia, Tierra del Fuego),

spec nov	Stephani	1894	228	Hedwigia 33: 168
	Stephani	1900	798	Bihang Kgl Sv Vetensk-Akad Handl bot 26 III (6): 67 [Patagonia, Chile]]
	Dusen	1903	3245	-In Scott, Princton University Expeditions to Patagonia: 13
	Stephani	1911	686	Spec Hepat 4: 666-667
	Stephani	1911	721	Kungl Svenska Vetenskapsakad Handl 45 (9): 90 [Chile: Chiloe Isl, Westpatagonien]
	Kühnemann	1937	1031	Revista Centro Estud Doct Ci Nat, Buenos Aires 1 (3): 167 [Patagonia]
	Herzog	1938	723	Arch Esc Farm Fac Ci Med Cordoba 7: 28-29 [Chile: Valdivia, Chiloe]
	Herzog	1939	2157	Beihefte zum Biologischen Centralblatt 60 B: 15 [Südchile: Insel Calbuco, Westpatagonien: Rio Puelo, Reloncavifjord]
	Schwabe & Schwabe	1939	2158	Beihefte zum Biologischen Centralblatt 60 B : 48 [Südchile: Insel Calbuco]
	Herzog in Skottsberg	1942	722	Nat Hist Juan Fernandez & Easter Island, 2: 739-740 [Juan Fernandez: Masatierra = Isla Robinson Crusoe]
	Kühnemann	1949	657	Lilloa 19: 355 [Argentina: Patagonia]
	Clark & Frye	1954	361	Bryologist 57: 26-28, fig. 1-16
	Herzog	1954	202	Rev Bryol Lichen 23: 60 [Chile]
	Arnell	1956	881	Svensk Bot Tidskr 50 (2): 309 [Chile]
	Clark & Palm	1961	396	Bryologist 64: 79-80 [similar to Fr magellanica]
	Dickson	1965	3905	Phil Trans Roy Soc London B 249 (759): 415 [Tristan da Cunha]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-47ab, microfiche 49 fig 3285 ["Fret magellan, Cunningham 1868 no 188, ex Herb Kew"] - 3286 ["Valdivia, leg Dr. Hahn, Jack com."]
	Yuzawa	1988	511	J Hatt Bot Lab 64: 439-442 [diagnostic character of spec., as F.bicornuta, F. patentiloba]
	Villagran et al.	2005	4527	Hepáticas y Antocerotes del Archipiélago de Chiloé: 56
	Hässel Hässel de Menéndez & Rubies	2009	2273	Nova Hedwigia, Beihefte 134 <1-672>
	Drapela & Larrain	2020	5566	Phytotaxa 428 (1) : 13 [Madre de Dios Archipelago, Magallanes Region, Chile]
	Villarro et al.	2020	5918	Flora del Parque National Puyehue, Chile: 118

streimannii S.Hatt. 1983 1874

Subgenus: Trachycolea Acutilobae

Typus: Australia. NS Wales, 1. Gloucester River, 400m & 2. Wild Cattle Creek State Forest 10.10.1978, H Streimann 6448

in hb NICH [holotypus], in hb CBG [isotypus]

Basionym:

Distribution: Australia (NSW)

spec nov	Hattori	1983	499	J Hatt Bot Lab 54: 176-178, fig 70
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 37 & 144 [Australia: NSW]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 47 [Australia (NSW)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 26 [Very restricted, vulnerable, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia NSW]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. Papua New Guinea, Gloucester River. 400 m. 10 Oct. 1978. H. Streimann 6448 (NICH 366598).

stylifera (R.M.Schust.) R.M.Schust. 1992 1876

Subgenus: Frullaniopsis

Basionym: Frullania inflata var. stylifera R.M.Schust. 1983

Distribution: USA (MN)

comb nov	Schuster	1992	603	Hepat N America 5: 210-216, figs 803(6-7), 807 [stat nov]
	Atwood	2016	4262	Evansia 33(2): 96-100 [New stations outside of the type location]
	Konstantinova et al	2020	5604	Journal of Bryology DOI: 10.1080/03736687.2020.1722511 [new to Eurasia]
	Mamontov et al.	2020	5641	Nova Hedwigia, Beiheft 150: 201-242 [belong to subg. Frullaniopsis subgen. nov.]

subarctica Vilnet, Borovich. & Bakalin 2014 2464

Subgenus: Frullania

Typus: TYPE: “Russia. Magadan Province: Ol`skoe Basalt Plateau in upper course of Maltan River, 60°38’46” N, 151°27’25” E), 1166 m elev., tundra belt, wet moss-Sphagnum tundra on slope, in hollows 9 August 2011, V. Bakalin Mag54-19-11

holotype VBGI, isotypes KPABG, MHA

Basionym:

Distribution:

	Vilnet, Borovich. & Bakalin	2014	3962	Phytotaxa 173(1): 61-72
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts] [annotation 111]

subcaduca S.Hatt. 1974 1879

Subgenus: Trachycolea

Typus: Papua New Guinea. Southern Highlands, Mt. Gilowe, 3600m. "Mt. Gilowe, north slopes near 'cavern' just above timberline. Growing in Macromitrium spec. on exposed branch of alpine shrubbery." 25/10/1968, Zanten, B.O. van 68-3282/b

in hb L L0060943 [holotypus]
in hb JE [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution: Indonesia (Ceram), New Guinea [Papua New Guinea]

	hattori	1974	546	J Hatt Bot Lab 38: 267-270, fig 136-137
	Hattori	1982	495	J Hatt Bot Lab 51: 260
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 55, fig 11(=Altitudinal range)
	Hattori	1988	516	J Hatt Bot Lab 65: 449 [PNG]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Isotype. Papua New Guinea, N. slope of Mt. Gilowe. 3600 m. On exposed branch of alpine shrubbery. 15 Nov. 1968. V. Zanten 68-3282/b (NICH 431972).

subclavata Steph. 1910 1880

Subgenus: Trachycolea

Typus: India. Darjelling 1852, Wichura

in hb G 7972

Basionym:

Distribution: India (North: Uttaranchal (Mussoori, Nainital), West Bengal (Darjeeling)), Bhutan, Nepal

spec nov	Stephani	1910	686	Spec Hepat 4: 354 [as Chonanthelia]
	Chopra	1943	205	J Indian Bot Soc 22: 249 [India]
	Bonner	1965	655	Index Hepat 5: 437
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 235-236, fig 31 [from type]
	Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 132
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 69 [Darjeeling]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 323 [Easter Nepal]
	Long	1979	50	Lindbergia 5: 60 [Bhutan]
	Hattori	1980	489	J Hatt Bot Lab 47: 110-112, fig 231
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A-101, microfiche 48 fig 3215 [from type; "Himalaya Darjeeling Wichura leg 1852"]
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 198 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya, Nepal] - new record from India (Hattori 1975)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 182-183, fig 168(a-c)
	Negi & Gadgil	2001	1370	Perspectives Indian Bryology: 23-33 [terricolous; Garhwal Himalayas]
	Pant	2001	1369	Perspectives Indian Bryology: 15 [incorporated in bird-nests]
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 19 [Nepal, 1550-2510 m]

subdentata var. latistipula (S.Hatt.) S.Hatt. 1982 954

Subgenus:

Basionym: Frullania curvistipula var. latistipula S.Hatt. 1978

Distribution:

comb nov	Hattori	1982	495	J Hatt Bot Lab 51: 228 [comb nov]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 35
	Hattori	1988	516	J Hatt Bot Lab 65: 419-421, fig 2 [PNG - Mt. Alb. Edward, key to subdentata & curvistipula var. latistipula)

subdentata fo. longistipula S.Hatt. 1978 1882

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea. 2600m 1968, native collector, van Zanten 68-3186/a

in hb JE [holotypus]
in hb F [isotypus]
in hb NICH [isotypus]

Basionym:

Distribution: New Guinea

fo nov	Hattori	1978	482	J Hatt Bot Lab 44: 532-533, fig 205
	Hattori	1982	495	J Hatt Bot Lab 51: 228
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]

subdentata Steph. 1911 1881

Subgenus: Diastaloba Diastaloba I

Typus: Papua New Guinea. Central summit of the Owen Standley Range 1889, W. MacGregor 28pp in hb G G00069094 - n° SIB 126589/1 - 14242 (hb GEHEEB 1897, ex hb MEL 5.8.1889) [holotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia

spec nov	Stephani	1911	686	Spec Hepat 4: 545-546
	Verdoorn	1930	293	Ann Bryol Suppl 1: 89-90, fig 129
	Verdoorn	1930	549	Nova Guinea 14 (4): 543, pl 92(10)
	Verdoorn	1937	556	Blumea suppl 1: 212 [Papua]
	Bonner	1965	655	Index Hepat 5: 438
	Hattori	1973	542	J Hatt Bot Lab 37: 147-148, fig 85
	Hattori	1974	546	J Hatt Bot Lab 38: 270
	Hattori	1975	547	J Hatt Bot Lab 39: 305-306, fig 151-152
	Hattori	1982	495	J Hatt Bot Lab 51: 227-228
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 119 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-155, microfiche 59 fig 4094 ["N Guinea, Summit Owen Stanley Range, 1889, Sir W Macgregor No 28"]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 35, fig 2
	Hattori	1988	516	J Hatt Bot Lab 65: 421 & 449 [key to Fr. subdentata & Fr. curvistipula var latistipula]

subdilatata C.Massal. 1906 1883

Subgenus: Trachycolea Trachycolea

Typus: China. Shensi, prope Jn-kia-po 25.8.1896, J. Girald hb MASSALONGO 124, ex hb LEVIER, in hb G

Basionym:

Distribution: China

spec nov	Massolongo ex Levier	1906	824	Nuovo Giorn Bot Ital NS 13: 349-350
	Stephani	1910	686	Spec Hepat 4: 445 [Mass n sp]
	Bonner	1965	655	Index Hepat 5: 438-439
	Hattori	1974	545	J Hatt Bot Lab 38: 219-220, fig 105 [from type] [comb nov as Fr. dilatata ssp. subdilatata]
	Hattori	1982	131	J Jap Bot 57 (9): 258-259 [proper species; key to Fr. dilatata, Fr. dilatata asiatica, & Fr. subdilatata]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 146 [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-186, microfiche 52 fig 3588 ["China, Schensi, Jnkiapo, Giraldi"]
	Piippo	1990	521	J Hatt Bot Lab 68: 47 [annotated catalogue of China]

subincumbens S.Hatt. 1987 1887

Subgenus: Trachycolea Australes

Typus: Australia. [NSW] Lord Howe Island. Along track from Rskine valley to top of Mt Gower, 100-850 m 17.12.1981, Vitt 28528 in hb NICH [holotypus], in hb ALTA [isotypus]

Basionym:

Distribution: Lord Howe Isl

	Hattori	1987	400	Bryologist 90 (4): 367-368, fig 9-20
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 112 [not in Australia, only from Lord Howe Isl]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 24 [rare, only type collection, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. Austral;" Lord Howe, along track from Erskine valley to top of Mt. Gower. Most collections from summit area of MT. Gower. 100-875 m. 17 Nov. 1981. Dale H. Vitt 28528 (NICH 408351).

sublignosa Steph. 1894 1888

Subgenus: Saccophora

Typus: Philippines. Dapitan 1884-1885, Micholitz

in hb G

Basionym:

Distribution: Singapore, Malaysia (Sarawak), Borneo, Indonesia (Banka, Ceram), Philippines, New Guinea

spec nov	Stephani	1894	228	Hedwigia 33: 148
	Stephani	1911	686	Spec Hepat 4: 450-451 [as Trachycolea]
	Verdoorn	1929	245	Ann Bryol 2: 122, fig 1 [Singapore]
	Verdoorn	1930	549	Nova Guinea 14 (4): 541 [New Guinea]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 61-62, fig 91-93
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 80; Singapore]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 220, fig 28 [map] [as Fr. saccata = nom nud]
	Verdoorn	1937	556	Blumea suppl 1: 212 [Fr. saccata as syn]
	Hattori	1951	846	Bot Mag Tokyo 64: 118 [Dutch New Guinea]
	Bonner	1965	655	Index Hepat 5: 439
	Hattori	1975	547	J Hatt Bot Lab 39: 306-308, fig 153
	Hattori	1976	80	J Hatt Bot Lab 40: 498
	Hattori	1982	495	J Hatt Bot Lab 51: 244
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-187, microfiche 52 fig 3589 ["Philipp Ins, Dapitan, Micholitz 1884/85"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 305 [Philippines]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 42
	Hattori	1986	507	J Hatt Bot Lab 60: 248 [Seram]
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Piippo, He, Juslen, Tan, Murphy & Pocs	2002	1002	Ann Bot Fennici 39: 114 [Singapore]

submultilacera S.Hatt. & Koike 1994 1891

Subgenus: Diastaloba

Typus: Micronesia. Palau Isl 25.7.1939, Y. Horikawa 17905, 17934, 17959

in hb HIRO (Horikawa 17905) [holotypus]

Basionym:

Distribution: Palau Isl

	Hattori & Koike in Koike	1994	37	J Hatt Bot Lab 75: 190-191, fig 4

subnigricaulis S.Hatt. 1973 1892

Subgenus: Trachycolea

Typus: Indonesia. Java

in hb L (Herb Lugd Bat no 910.291-372)

Basionym:

Distribution: Malaysia (Pahang, Sabah), Borneo, Indonesia (Java), New Guinea

spec nov	Hattori	1973	541	J Hatt Bot Lab 37: 89-90, fig 46
	Hattori	1974	545	J Hatt Bot Lab 38: 220-221, fig 106
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 117-118
	Hattori	1975	547	J Hatt Bot Lab 39: 308
	Hattori	1976	80	J Hatt Bot Lab 40: 498
	Hattori	1982	495	J Hatt Bot Lab 51: 260-261, fig 5
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 119 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 55
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]

subnigricaulis var. subtruncata S.Hatt. 1975 1893

Subgenus: Trachycolea

Typus: Papua New Guinea. Central, Isuarava, 4000ft "Forest on a tree. " 7/2/1936, Carr 15463

in hb L L0060945 ([HLB 937.162-69) [holotypus],
in hb NICH [isotypus]

Basionym:

Distribution: Indonesia (Java, Ceram), Borneo, New Guinea [Papua New Guinea]

var nov	Hattori	1975	547	J Hatt Bot Lab 39: 308-309, fig 154-155
	Hattori	1982	495	J Hatt Bot Lab 51: 261
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Hattori	1986	507	J Hatt Bot Lab 60: 248 [Seram]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 55, fig 11(altutudinal range)
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. Papua New Guinea, Tsuarava. 4000 ft. Forest on a tree. 7 Feb. 1936. C. E. Carr 15463 (NICH 431977). Isotype specimen: NICH 431975.

subocellata S.Hatt. 1986 1894

Subgenus: Diastaloba Diastaloba I

Typus: Indonesia. Seram

Basionym:

Distribution: Malaysia (Pahang), Indonesia (Ceram), New Guinea

	Hattori	1986	507	J Hatt Bot Lab 60: 248-250, fig 3
	Hattori	1988	516	J Hatt Bot Lab 65: 449-450, fig 11 [PNG] [key to Seram Isl & specimens fron PNG]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: (continued:) Limestone area, west-side slope of valley with developed mountain forest on branches of trees. 20 Feb. 1985. H. Akiyama 10631 (NICH 401630).
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Indonesia, C. Seram, Manusela National Park; along a trail between Hatumete(5 m alt.) and Hoale Pass (1750 m alt.), Kecamatan Tehoru, Indonesia. 1030 m.

subpedicellata S.Hatt. 1980 1895

Subgenus: Trachycolea

Typus: India. Mussoorie area, Kempty Falls, 5400ft 10.5.1965, Z. Iwatsuki, A.J. & Evelyn Sharp 12412

in hb NICH [holotypus], in hb TENN [isotypus]

Basionym:

Distribution: India (North: Uttaranchal (Mussoorie), Assam, Meghalaya (Shillong))

spec nov	Hattori	1980	489	J Hatt Bot Lab 47: 93-95, fig 223(a-m)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 183
spec nov	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 280-291, map 11 - Unpublished thesis.
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 77-78, fig 1[map], [India, Meghalaya, Eastern Himalayas]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. India, Kempty Falls, Mussoorie area. 4500 ft. On trunk. 10 May 1965. Z. Iwatsuki, A. J. & Evelyn Sharp 12412 (NICH 258899).

subpilibracteola S.Hatt. 1977 1896

Subgenus: Diastaloba

Typus: New Caledonia.

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1977	479	J Hatt Bot Lab 43: 434-436, fig 16-17 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 139
	Hattori	1984	503	J Hatt Bot Lab 57: 421
	Hattori	1986	506	J Hatt Bot Lab 60: 226
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. New Caledonia, Sommet. 880 m. 10 May 1951. H. Hurlimann 2572a (NICH 432029).

subpyricalycina Herzog 1954 1897

Subgenus: Chonanthelia

Typus: Chile. Pataguaschlucht, "im schattigen Urwald an Boldostämmen" 2.12.2940, G.H. Schwabe 149
in hb JE [holotypus & isotypus]

Basionym:

Distribution: Chile

Herzog	1954	202	Rev Bryol Lichen 23: 57- 59, fig 13 [Chile]
Bonner	1965	655	Index Hepat 5: 440
Müller & Zündorf	2007	1442	http://www2.uni-jena.de/biologie/spezbot/herbar/bryotypes/Uebersicht%20F.htm
Atwood et al	2021	6083	J Bryol : 1-9. figs 1(a-m), 3(a-e)

subsquarrosa S.Hatt. 1972 1898

Subgenus: Trachycolea

Typus: Papua New Guinea. Morobe, Wau Dist, 5000-5400ft 1967, Schuster 67-5848
in hb NICH [holotypus]
in hb MASS, JE [isotypus]

Basionym:

Distribution: New Guinea [Papua New Guinea]

Hattori	1972	539	J Hatt Bot Lab 36: 429-431, fig 12
Hattori	1973	542	J Hatt Bot Lab 37: 151 [New Guinea]
Hattori	1982	495	J Hatt Bot Lab 51: 261
Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 119 [New Guinea]
Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. Papua New Guillea,Wau District Kunei Creek and vicinity, near Edie Creek road, SSW of Wau. 5000-5400 ft. 25 May 1967. R. M. Schuster 67-5848 (NICH 309931).

subtilissima (Nees ex Mont.) Lindenb. 1845 776

Subgenus: Diastaloba Diastaloba I

Typus: River Kau "Habitat in Guiana Gallica ad troncos Bixae Orellanae secus ftumen Kau. Leprieur n. 254. (Hb.M. et N.)" -.5.1838, Leprieur "254" (264, corr. Montagne 1855: 184)

hb PC (hb MONTAGNE) PC0033561 [holotypus]
in hb PC PC0033300, PC0033560, FUSION276124, FUSION276123, PC0033570

Basionym: Frullania atrata var. subtilissima Nees ex Mont. 1840

Distribution: Dominican Rep, Dominica, Puerto Rico, Guadeloupe, Jamaica, Martinique, Ecuador [?], French Guiana, Brazil

comb nov	Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 443
	Montagne	1855	475	Ann Sci Nat Bot, ser 4, 3: 320 [Leprieur 264, not 254]
	Spruce	1884	243	Trans Proc Bot Soc Edinburgh 15: 56 & 58-59
	Stephani	1888	938	Hedwigia 27: 300 [St. Domingo, Dominican Rep]
	Spruce	1895	238	J Linn Soc Bot 30: 334 [Dominica]
	Duss	1904	3132	Flore Cryptogamique des Antilles Françaises: 133 [Martinique]
	Stephani	1911	686	Spec Hepat 4: 631 [sub sgen Diastaloba, Dominican Rep]
	Pagán	1942	3152	Bryologist 45(4): 109 [Guadeloupe]
	Clark & Svihla	1948	325	Bryologist 51: 23-24 [key to Fr. of Middle America] [? syn with Fr. atrata; they examined a misidentified specimen, belonging to sgen. Meteoriopsis (Gradstein & Hekking 1989: 209)]
	Bonner	1965	655	Index Hepat 5: 440
	Fulford, Crandall & Stotler	1970	661	J Arnold Arboret 51: 67 [Puerto Rico]
	Fulford, Crandall & Stotler	1971	662	J Arnold Arboret 52: 451 [Puerto Rico]
	Bryant, Crandall-Stotler & Stotler	1973	4689	Canadian Journal of Botany 51 (9): 1545-1554 [Puerto Rico]
	Yano	1984	501	J Hatt Bot Lab 56: 507 [checklist Brasil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-26, microfiche 48 fig 3257 ["Tubarac, Brasil, inter Ule 202"] - 3258 ["Guadeloupe 605"]
	Gradstein	1989	20	Bryologist 92 (3): 345 [status of species problematical Puerto Rican record needs to be verified]
	Gradstein & Hekking	1989	517	J Hatt Bot Lab 66: 209 [close to Fr. ecuadoriensis; type of F. subtilissima in the Montagne herbarium (river Kau, Leprieur 264 ("254", corr. Montagne 1855: 184), herb. Pc-Mont.belongs to sgen. Frullania]
	Porto	1990	77	Crypt Bryol Lichen 11 (2): 123 [Brazil]
	Boggan, Funk, Kelloff et al.	1992	4771	Checklist of the plants of the Guianas
	Weaver	1994	4271	Bano de Oro Natural Area Luquillo Mountains, Puerto Rico
	Yano	1995	2095	J Hatt Bot Lab 78: 143 [annotated checklist of Brazil]
	Boggan, Funk, Kelloff, Hoff, Cremers & Feuillet	1997	1396	Checklist Guianas: 10 [French Guiana]
	Gradstein & Costa	2003	984	Mem Ney York Bot Garden 87: 33 [
	Porto, Germano & Borges	2004	1446	Brejos de Altitude em Pernambuco e Paraiba: 83 [Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Yano & Peralta	2008	5119	Bol. Mus. Biol. Mello Leitao (n. ser.) 24: 65, fig 5(a-g)
	Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 385-386 [Dominican Republic, Hispaniola]
	Schäfer-Verwimp	2010	2460	Crypt Bryol 31(4): 348 [Basionym Frull atrata var subtilissima, Dominica, West Indies] treatment of this taxon in Clark & Svihla (1948) is erroneous
	Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe], 251 [Martinique]
	Söderström, Hagborg, Vana & Konrat	2011	2581	Bryologist 114(1) : 72 [checklist Jamaica]
	Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]
	Schäfer-Verwimp & Van Melick	2016	4260	Cryptogamie, Bryologie 37(3): 305-348 [Jamaica]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 197 [name excluded from Brazil, (??) proved to be Fr vitalii - see Gradstein&Hekking 1989 & Stotler 1968]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 380-381, fig. 37n,o [key -Ecuador, Colombia]

subtropica Steph. 1910 1901

Subgenus: Trachycolea Australes

Typus: Australia. New South Wales, Richmond River, off Tintenbar Road, 3 km [5 km] from Ballina "on tree" [confirmed by P. Bibby 31.3.1953] 30.6.1900, W.W. Watts, 107

in hb G 18230 (ex hb LEVIER 2602) [holotypus]
in hb NSW 251075 [isotypus]

Basionym:

Distribution: Australia (NSW, QLD)

spec nov	Stephani	1910	686	Spec Hepat 4: 416 [as Trachycolea]
	Watts	1912	1940	unpublished Msc
	Bonner	1965	655	Index Hepat 5: 440-441
	Hattori	1979	486	J Hatt Bot Lab 46: 146-148, fig 45(A-j) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-223, microfiche 53 fig 3640 ["Australia, N.S.Wales, Levier 2602"]
	Windolf	1985	1049	J Hatt Bot Lab 59: 174 [Sunshine Coast, Queensland]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 37 & 145 [Australia: NSW]
	Windolf	1987	1025	Austrobaileya 2(4): 391 [checklist Queensland]
	Windolf	1989	1026	Austrobaileya 3(1): 105 [Queensland]
	Brown, Ramsay & Seur	1992	1140	Telopea 5(1): 76 [types in hb NSW; may be a form of Fr pycnantha]
	NN	2000	1085	http://plantnet.rbgsyd.nsw.gov.au/HerbLink/NSWtypes/srch.html [isotype in NWS]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 48 [Australia (NSW, QLD)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW]

subtruncata Steph. 1910 1902

Subgenus: Incertae sedis

Typus: Panama. Chirique sd, F. Melion 427

in hb G

Basionym:

Distribution: Costa Rica, Panama

spec nov	Stephani	1910	686	Spec Hepat 4: 389 [Panama]
	Bonner	1965	655	Index Hepat 5: 441 [Panama, Costa Rica]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 77, microfiche 51 fig 3443 [from type; "Panama, Chirique, leg F Helion"]
	Stotler, Allen, Gradstein, McGuinness, Whittemore & Chung	1998	703	Trop Bryol 15: 180 [Checklist Panama]

subvalida S.Hatt. & Thaithong 1978 1903

Subgenus: Trachycolea

Typus: Laos.

Basionym:

Distribution: Laos

	Hattori & Thaithong	1978	128	J Jap Bot 53 (6): 173-175, fig 1
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 134-135 [may be conspecific with Fr. fusco-virens]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. Laos, Phongsavanh. 1000 m. 3 Jan: 1958. T Tuyama 7 (NICH 432031).

supradecomposita (Lehm. & Lindenb.) Lehm. & Lindenb. 1845 1904

Subgenus: Meteoriopsis Intumescentes

Typus:

in hb G (19749), W

Basionym: Jungermannia supradecomposita Lehm. & Lindenb. 1833

Distribution: Brazil

comb nov	Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 431
	Jack & Stephani	1892	1089	Hedwigia 31: 13 [Peru, Neu-Granada]
	Stephani	1911	686	Spec Hepat 4: 507-508
	Clark	1955	373	Bryologist 58: 204-207, fig 1-17
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 87-88 [Brazil] [may be syn with Fr. brasiliensis]
	Bonner	1965	655	Index Hepat 5: 442
	Stotler	1969	4761	Nova Hedwigia 18: 441-442, pl 10(498-499)
	Stotler	1970	194	The genus Frullania, separata: 441-442, pl 10(498-499)
	Lemos Michel	1980	719	Diss, Uni Fed do Rio Grande do Sul, Porto Alegre: 73-75, pl 11, map 10, [Brasil, Rio Grande do Sul]
	Yano	1984	501	J Hatt Bot Lab 56: 507 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 95, microfiche 58 fig 4014 ["Rio Janeiro, Brasilia, Dietirchsen leg)"] - 4015
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Oliviera-e-Silva & Yano	2000	989	Boletim Inst Botanica 13: 30-31 [Rio de Janeiro, Brazil]
	Oliveira-e-Silva, Milanez & Yano	2002	1077	Trop Bryol 22: 81 & 93 [Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [Brazil]
	Peralta & Yano	2005	1488	Acta bot bras 19(4): 971 [Brazil, Sao Paulo]
	Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira]
	Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 284 [Rio de Janeiro State, Brazil]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Bordin & Yano	2010	2266	Pesquisas, sér Bot 61: 50-51 [Brazil]
	Yano	2012	3678	Pesquisas, série Botânica 63:55-140 [Catálogo ... do Estado do Espírito Santo, Brasil]

svihlana S.Hatt. 1983 1905

Subgenus: Trachycolea

Typus: New Zealand. 7.3.1958, R.D. Svihla 2788

in hb NICH [holotypus], in hb WTU [isotypus]

Basionym:

Distribution: New Zealand

	Hattori	1983	499	J Hatt Bot Lab 54: 180-181, fig 72 [near Fr. scandens & Fr. deplanata]
	Glenny	1998	1412	Tuhinga 10: 120, 132 [revised checklist of New Zealand]
	Glenny & Malcolm	2005	1410	ABRS Ident Ser, Key Australasian Liverwort & Hornwort Genera - CD-Rom [New Zealand species]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 37: Holotype. New Zealand, South Island, 2 mi. SE of Rotorua, Whakarewarewa. 1038 ft. 7 March 1958. R. D. Svihla 2788 (NICH 351559).
	Engel, von Konrat, Glenny	2023	6397	Acta Biologica Plantarum Agriensis 11(1): 251, 1-4 [New Zealand, with key]

sylvestris Sim 1926 [non silvestris Steph. 1908] 1906

Subgenus: Chonanthelia

Typus: Africa. South Africa, Natal, Giants Castle -.10.1903, Sim

in hb PRE 1740

Basionym:

Distribution: Democratic Republic of Congo, Zambia, South Africa

spec nov	Sim	1926	252	Trans Roy Soc S Africa 15: 40, figs [South Africa]
	Arnell	1955	1690	Bot Not 108: 309
	Arnell	1963	822	Hepat S Africa: 138-141, fig 101(a-g) [may be an ecological form of Fr. trinervis]
	Bonner	1965	655	Index Hepat 5:
	Vanden Berghen	1972	249	Expl Hydrobiol Bassin Bangweolo et Luapula 8 (1): 76
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 205 [syn with Fr. trinervis ?]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 210 [syn sub Fr. natalensis, and with Fr. depressa]
	Voster	1977	1789	Bothalia 12(2): 257 [typification]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 91
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [as "silvestris"] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [as "silvestris"] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
		2008	1227	http://www.ville-ge.ch/musinfo/bd/cjb/hepatic/detail.php?no_record=26860

tagawana (S.Hatt. & Thaithong) S.Hatt. 1985 432

Subgenus: Frullania

Basionym: Frullania evoluta var. tagawana S.Hatt., Thaithong & Kitagawa 1977

Distribution: China (Yunnan), India (North: West Bengal (Darjeeling), Assam, Meghalaya), Thailand, Laos

comb et stat nov	Hattori in Hattori & Lin	1985	505	J Hatt Bot Lab 59: 160
	Piippo	1990	521	J Hatt Bot Lab 68: 47 [annotated catalogue of China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China]
	Bapna & Kachroo	2000	712	Hepaticology in India II: 195
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 433 [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 50 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 23 [Yunnan, China]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 77-79, fig 36(a-i) [checklist & revision of genus Fullania, Thailand]

taiheizana Horik. 1934 434

Subgenus: Trachycolea

Typus: Taiwan. Prov.Taihoku, Mt. Taiheizan -.8.1932, Y. Horikawa 9388

in hb HIRO [holotypus]

Basionym:

Distribution: Taiwan (endemic)

spec nov	Horikawa	1934	34	J Sci Hiroshima Univ, ser B, div 2, 2: 241-242, fig. 46
	Kamimura	1952	769	Acta Phytotax Geobot 14 (4): 109
	Tatuno	1952	1697	J Sci Hiroshima Univ ser B, div 2 (Bot), 6(2): 51-57 [sex chromosomes]
	Hattori & Noguchi	1960	965	Index spec Typ herb Japon, Bryophyta: 18 [holotype]
	Iverson	1963		Journ Hattori Bot Lab 26: 124
	Bonner	1965	655	Index Hepat 5: 443
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 168 [Index to Taiwan]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 735 [South Korea]
	Fritsch	1982		Regnum Vegetable 108: 22
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 163 [type not located]
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 47 [annotated catalogue of China]
	Lin & Chen	1997	1130	Biol Bull 75: 107-109, fig 21(a-p) [Taiwan, key to species, in Taiwanese]
	Lin	2000	1524	Liverwort Flora Taiwan: 176, fig p 176(1-15) [Taiwan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

tamarisci var. sardoa (De Not.) De Not. 1865 1996

Subgenus: Frullania

Basionym: Jungermannia tamarisci var. sardoa De Not. 1839

Distribution: Sardinia [Italy], Italy, Portugal, Madeira [Portugal]

	De Notaris	0		Erbario Crittogamico Italiano. [1858-1885] No. 179
	De Notaris	1865	576	Mem Reale Accad Sci Torino, ser 2, 22 (1): 380-381, pl 4, fig 22(1-22)
	Dumortier	1874	580	Bull Soc Roy Bot Belgique 13: 29 [synonyms]
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 612, 615 [Tirol, Dalmatien, Italien, Spanien, Portugal]
	Beauverd in Stephani	1924	909	Spec Hepat 6: 570 [syn sub Fr. hispanica]
	Schiffner	1936	992	Krit Bemerk europ Leberm, ser 20: 20 [Hepat europ exsicc, nr.990, 991a, 991b]
	Jelenc	1950	1707	Soc Geogr Arch Prov d'Oran 73 (fasc 228): 72 [North Africa] syn sub Fr tamarisci var hispanica
- syn nov	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1234 [syn sub Fr. tamarisci var sardoa]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1235-1236
	Bonner	1965	655	Index Hepat 5: 448
	Hattori	1972	536	J Hatt Bot Lab 35: 226
	Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
	Casas	1998	768	Orsis 13: 20 [checklist Spain]
	Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 124
	Sim-Sim, Carvalho, Figueiredo, Esquivel, Fontinha, Lobo, Barroso & Pedro	2003	1210	Bocagiana 210: 5 [Madeira]
	Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 166 [annotated checklist of Portugal]

tamarisci var. mediterranea (De Not.) Nees 1845 1993

Subgenus: Frullania

Basionym: Jungermannia tamarisci var. mediterranea De Not. 1839

Distribution: Corse [France], Sardinia [Italy], Portugal, Madeira [Portugal], North Africa

comb nov	Nees in G., L. & N.	1845	2850	Syn Hepat: 438
	Notaris	1865	576	Mem Reale Accad Sci Torino, ser 2, 22 (1): 382-383, pl 5, fig 23(1-19)
	Dumortier	1874	580	Bull Soc Roy Bot Belgique 13: 29 [synonyms]
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 612-613, 615 [Dalmatien, Italien, Sardinien]
	Schiffner	1936	992	Krit Bemerk europ Leberm, ser 20: 19 [Hepat europ exsicc, nr. 988, 989]
	Jelenc	1950	1707	Soc Geogr Arch Prov d'Oran 74 (fasc 228): 72 [North Africa]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1236
	Bonner	1965	655	Index Hepat 5: 446-447
	Hattori	1972	536	J Hatt Bot Lab 35: 226
	Sim-Sim	1989	6	Portug Acta Biol (B) 15: 363 [Portugal]
	Casas	1998	768	Orsis 13: 20 [checklist Spain]
	Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
	Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
	Ros, Cano & Guerra	1999	1013	http://www.um.es/dp-biologia-vegetal/lab-briologia/Check-list.PDF:40 [checklist of Northern Africa]
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 124
	Ros, Cano & Guerra	1999	759	J Bryol 21: 235 [North Africa; checklist of Northern Africa]
	Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 166 [annotated checklist of Portugal]

tamarisci (L.) Dumort. 1835 127

Subgenus: Frullania

Basionym: Jungermannia tamarisci Linnaeus 1753

Distribution: Iceland, England, Ireland, Norway, Iceland, Germany, Turkey, Portugal, Spain, Andorra, Sardinia, Corsica, Greece (Crete, Rhodes, Corfu), Balearic Isl, Slovenia, Albania, Croatia, Bosnia-Herzegowina, Serbia-Montenegro, Macedonia, Hungary, Bulgaria, Madeira [Portugal], Azores [Portugal], Canary Isl (Fu Go GC Hi Lz Pa Te)[Spain], Cape Verde Isl, Morocco, Algeria, Tunisia, Alaska, Canada (NF NS), USA (ME RI NH VT MA CT NY VA NC SC MS AR), Peru?, Brazil?, Russia (Arctic, Caucasus, Siberia, Far East, Altai), Armenia, China (Shandong, Anhui, Shaanxi, Yunnan, Zhejiang, Fujian, Guiyang, Guangxi), Taiwan, Turkey, Lebanon, Iran

Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
Nees	1838	261	Naturg Europ Leberm 3: 229-235 [extensive literature]
Montagne in Barker-Webb & Berthelot	1840	910	Hist Nat Iles Canariensis 3,2,4: 54
Raddi in Nees	1841	164	Jungermannogr Etrusca [Seperate print with remarks by Nees]: 5 [as Fr. maior]
Nees in G. L. & N:	1845	2850	Syn Hepat: 438-439 (No 60)
Pokorny	1852	2264	Sitzber Akad Wiss, Math-Nat Classe 9(1): 189 [Austria, Unter-Österreich]
Pokorny	1854	2263	Verh Zool-Bot Ver Wien. Abhandl 4: 123 [Austria, Unter-Österreich]
Mitten	1861	574	J Linn Soc Bot 5: 122 [Sri Lanka]
Russell	1862	680	Proc Essex Inst 2: 134 [Fayal, Azores]
Notaris	1865	576	Mem Reale Accad Sci Torino, ser 2, 22 (1): 376-378, pl. 4 fig 20(1-29)
Dumortier	1874	580	Bull Soc Roy Bot Belgique 13: 28-29 [synonyms]
Lamy	1875	2436	Rev Bryol 2(4): 42 [France: Mont-Dore]
Lamy	1875	2437	Rev Bryol 2(4): 93 [France: Haute-Vienne]
Lindberg	1875	1582	Acta Societatis Scientiarum Fennicae 10: 475
Pabst	1877	1165	Cryptogamen-Flora Deutschlands, Lebermoose: 34, pl 6
Stephani	1879	224	Bericht Bot Verein Landshut 7: 153, fig. 118
Schur	1885	1842	Enumeratio Plant Transsilvaniae: 870
Gottsche	1886	1034	Bot Centralblatt 25 (3-4): 95-97 & 12-123 [Fossil]
Corbiere	1889	1704	Mem Soc Nat Sci Nat Math Cherbourg 26: 344-345 Mémoires de la Société Nationale des Sciences Naturelles et Mathématiques de Cherbourg >
Pearson	1890	1153	List of Canadian Hepaticae: 3
Brotherus	1892	922	Acta Soc Sci Fennicae 19 (12): 143-144 [Caucasus]
Schiffner	1895	1015	Separata aus Engler-Prantl, Natürliche Pflanzenfamilien, Teil 1, Abt 3: 134
Ravaud	1895	2432	Rev Bryol 2(1): 7 [France: Grenoble]
Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 23-24, pl. 12(1-10)
Evans	1902	665	Proc American Acad Sci 38: 100 [Galapagos Isls: Floreana - The species would. hardly be expected]
Barbour	1902	2233	Bryologist 5(1): 5 [USA]
Dalla Tore & Sarnthein	1904	2694	Die Moose (Bryophyta) von Tirol, Vorarlberg und Lichtenstein: 90-91
Schiffner in Engler & Prantl	1905	809	Natürliche Pflanzenfamilien, Teil 1, Abt 3, 1: 134
Cavers	1907	897	Naturalist 1907 (Jan/Feb): 11-16 & 46-49, fig 1A [water sac] [Yorkshire]
Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183 [key to Japanese species, in Japanese]
Stephani	1911	686	Spec Hepat 4: 562-563
Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 610-618, fig 173(a-e)
Reimers	1927	1039	Notizbl Bot Gart Mus Berlin-Dahlem 10 (91): 33 [Pontus, Kleinasien]
Migula	1932	179	Lebermoose Torfmoose, Stuttgart: 39, pl 7(54) [Germany, key]
Zwickel	1932	663	Beih Bot Centralbl 49: 638 [Ozellen]
Jorgensen	1934	225	Bergens Mus Skrift 16: 327-330, map 22b [Norway]
Schiffner	1936	437	Österr Bot Zeitschr 85 (2): 126-127 [Ireland: Killarney]
Schiffner	1936	992	Krit Bemerk europ Leberm, ser 20: 13-15 "fo. genuina" [Hepat europ exsicc, nr. 977-982]
Ade & Koppe	1942	206	Hedwigia 81 (1/2): 34 [Spanien, Portugal]
Mädgefrau	1943	2799	Flora NF 37: 136 [Teneriffe]
Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 748-751, fig Frt(1-14)
Jelenc	1950	1707	Soc Geogr Arch Prov d'Oran 73 (fasc 228): 72 [North Africa]
Gaume	1955	956	Rev Bryol Lichen NS 24 (1/2): 21 [France; Bretagne]
Arnell	1956	43	Moss Flora of Fennoscandia: 256-257 [Norway]
Jovet-Ast	1956	955	Rev Bryol Lichen NS 25 (1/2): 136-158 [Maroc]
Jovet-Ast	1956	1699	Bull Soc Sci Nat Phys Maroc 36(1): 58 [Maroc]
Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1234-1236, fig 480(a-e)
Arnell	1961	180	Svensk Bot Tidskr 55 (2): 392 [Canary Isl, according K. Müller]

Virchenko & Vana	1964	2673	A list of liverworts, hornworts and peat mosses of Ukraine, p. 11 [Ukraine]
Zerov	1964	2658	Flora of Hepatics, Sphagnum and Mosses of the Ukraine, p. 280-281, fig 196 [Ukraine]
Abramov et alii	1965	432	Nov Syst Plant non Vascul: 280 [Caucasus: Bakuriani]
Abramov et alii	1965	433	Nov Syst Plant non Vascul: 285 [Caucasus: reservatum publicum Teberdense]
Arzeni	1965	1108	Bryologist 68 (1): 113 [Lebanon]
Hattori in Hara	1966	841	Flora of Eastern Himalaya: 528
Bertsch	1966	617	Moosflora von SW-Deutschland:185-187 [key to SW-Germany]
Jelenc	1967	1701	Rev Bryol Lichenol NS 35(1-4): 191 [Maroc]
Stotler	1968	197	Taxon 17: 635-638
Augier & Noailles	1969	829	Ann Fac Sci Univ Fed Cameroun 2: 30 [Canary Isl: Tenerife]
Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 312-313 [key to europa & macaronesia]
Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 332, pl 45 [717]
Hattori	1972	536	J Hatt Bot Lab 35: 226-232, fig. 10, 11(a-f,m-n), 12(g-o), 15(a-e)
Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 135-136 [Central Japan]
Kitagawa	1973	404	Misc Bryol Lichen 6 (6): 103 [Japan]
Frey	1974	1110	Bryologist 77 (1): 52 [Iran]
Sjögren	1975	733	Svensk Bot Tidskr 69: 259-260 [epiphyllous, Madeira]
Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 125-127, fig. 31
Jovet-Ast & Bischler	1976	186	Rev Bryol Lichen 42 (4): 976 [Iberian Peninsula]
Szweykowski & Kozlicka	1977	1096	Atlas geograph distr spore-plants Poland, ser IV, part IX: 21-23, map [H. 240; altitude range & map of Poland, world map]
Düll & Koppe	1978	151	Dechenia 131: 67 [red list of Nordrhein-Westfalen]
Sjögren	1978	1696	Mem Soc Brot 26: 127-129 [Azores]
Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 113 [Cat Colombia; Kunth specimen 1822 may belong to another species]
Bischler, Jovet-Ast & Baudoin	1980	149	Crypt Bryol Lichen 1 (3): 255 [Albanien]
Faure, Dambuyant, Chabeau, Souteyrand & Thivolet	1981	1286	Contact Derm 7: 320-325 [Contact Dermatitis]
Inoue & Steere	1981	71	Bull Natn Sci Mus Tokyo, ser B (Bot), 7 (3): 79 [Iceland]
Hu & Wang	1981		J East China Normal Univ (Nat Sci) 1981 (1): 85-104[aus 698]
Fuertes Lasala & Alvarez Orzanco	1982	16	Crypt Bryol Lichen 3 (2): 148 [Navarra, Spain]
Guerra	1982	15	Crypt Bryol Lichen 3 (1): 19-22 [plant sociology, on Abies pinsapo, Spain]
Eggers	1982	22	Crypt Bryol Lichen 3 (4): 289 [Macaronesia]
Frahm & Frey	1983	178	Moosflora, UTB 1250, Stuttgart: 146 & 148, fig 35 (7) [key to Germany)
Grolle	1983	144	J Bryol 12: 421 & 439 [checklist Europe]
Düll	1983	620	Bryol Beitr 2: 68 [Europe & Macaronesia]
Indurain	1984	2267	Pub. Biol. Univ. Navarra. S. Bot. 5: 16 [Spain, Navarra]
Reinosa & Alvarez	1984	1325	Acta Cient Compostelana 21: 276 [Spain]
Goncalo	1984	1288	Contact Derm 11(1): 54-55 [Contact Dermatitis]
Yano	1984	501	J Hatt Bot Lab 56: 507 [checklist Brazil]
Bisang	1985	102	Bot Helvetica 95 (2): 247-278, map [Switzerland]
Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-201, microfiche 60 fig 4164 ["Waldkirchen"] - 4165
Wu in Li, Gao, Wu et al.	1985	1169	Bryoflora Xizang (Tibet), Science Press, Beijing: 525
Benezra, Stampf, Barbier & Ducombs	1985	1287	Contact Derm 13: 110-114 [Contact Dermatitis]
Schwab, Schäfer-Verwimp & alii	1986	101	Bryol Beitr 6: 7 [Gomera]
Indurain	1986	2270	Pub. Biol. Univ. Navarra. S. Bot. 6: 5 [Spain, Navarra]
Dunk, Lotto, Lübenau & Philippi	1987	999	Archive for bryology 1: http://www.bryologie.uni-bonn.de/Archive/Guide.pdf
Casas, Fuertes & Varo	1987	812	Act VI Simp Nac Bot Cript:477 [Spain: Sierra de Ancares]
Ederra Indurain et alii	1987	813	Act VI Simp Nac Bot Cript: 487 [Spain]
Bisang	1987	119	J Bryol 14: 761-763 [sporeling development]
Puche, Herrero-Borgonon & Casan	1987	816	Act VI Simp Nac Bot Cript: 579 [Spain]
Bisang	1987	98	Herzogia 7: 407-458 [Switzerland, all Frullania species, ecology]
Rettig	1987	1128	Hausknechtia 3: 71-75 [Germany, East Thuringia]
Llamas & Guerra	1987	814	Act VI Simp Nac Bot Cript: 522 [Spain: Prov de Leon]
Crandall-Stotler, Stotler & Geissler	1987	399	Bryologist 90 (4): 287-308 [systematics]

Ederra Indurain	1988	17	Crypt Bryol Lichen 9 (2): 104 [Navarra, Spain]
Cetin	1988	1050	Lindbergia 14: 14 [Turkey]
Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
Malme	1988	625	Sommerfeltia 7: 16 [all specimens belong to var. nervosa; Fuerteventura, Lanzarote]
Xu	1989		[aus 698]
Sim-Sim	1989	6	Portug Acta Biol (B) 15: 364 [Portugal]
Smith	1990	177	Liverwort Britain & Ireland: 251[key], 253-255, fig 111
Carballal, Fraga, Garcia & Reinoso	1991	1029	Col Mus Hep Liq Lopez S. Hult: 31 [Spain: Galegos]
Frey & Kürschner	1991	1033	Bryophyt Bibl 39: 31 [Turkey, Iran, Lebanon]
Sim-Sim & Sergio	1991	1194	IX Simposio Nacional Bot Cript, Salamanca: 252 [Madeira]
Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
Wang & Tau	1992		[aus 698]
Chao & Lin	1992	460	Yushania 9: 207-212, fig 18(a-k) [Taiwan]
Berg & Wiehle	1992	969	http://home.t-online.de/home/cberg/bryorl.htm [printed 09.05.2003 13:31] page 14 of 39 pages [Germany: Mecklemburg-Vorpommern]
Chao, Lin & Chan	1992	459	Yushania 9: 18, fig 6(a-g) [Taiwan, abies forest]
Schuster	1992	603	Hepat N America 5: 48-65, fig 777-779 [USA, as ssp. tamarisci]
Zaho, Fan, Wie & Lu	1993	1224	Chenia 1: 120 [China, Shandong Prov] as #1792
Wang	1993	1223	Chenia 1: 130 [south China, Guangxi Prov.]
Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): 5 [Canary Isl]
Boecker, Fischer & Lobin	1993	428	Nova Hedwigia 57 (1-2): 226 [epipyllous]
Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Western Himalaya]
Lütt, Eckstein & Schulz	1994	1006	Naturschutz Landschaftspflege Hamburg Schriftenreihe Umweltbehörde 42: 84 & 97
Wu & Lin	1994	1226	Chenia 2: 118 [epiphyllous, Hainan, China]
Hardt, Rieck, König & Muhle	1995	1241	Phytochemistry 40(2): 605-606 [chemical constituents]
Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 114 [key to european species]
Düll	1995	305	Bryol Beitr 10: 221 [Rhodes]
Manakyan	1995	652	Arctoa 5: 19 [Armenia]
Wang & Hu	1995		[aus 698]
Düll	1995	304	Bryol Beitr 10: 162 [Corfu]
Wulf	1995	273	Flor Rundbr 29 (1): 101-103 [Germany: Neuenburger "Urwald"]
Kim, Ri, Hoang, Huneck & Grolle	1995	2056	Feddes Repert 106: 293 [DPR of Korea]
Düll	1995	303	Bryol Beitr 10: 13 [Greece]
Vana & Ignatov	1995	648	Arctoa 5: 5 [Altai mountains]
Dia & Aiello	1996	811	Naturalista Sicil 20 (1-2): 39 [Sicili]
Long, D. D. & Ratcliffe, D. A.	1996	272	J Bryol 19: 97
Martínez-Abaigar & Núnez-Oliviera	1996	269	Nova Hedwigia 62 (1-2): 258 [Spain]
Frahm, Lindlar, Sollman & Fischer	1996	301	Trop Bryol 12: 129 [Cape Verde Isl]
Schmidt	1996	264	Bryol Mitt 1: 7 [Germany: Westfalen & Hessen]
Galan de Mera, Hagen de la Cerda & Vicente Orellana	1996	1300	Orsis 11: 10
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 92 [Catalogue ... of Sub-Saharan Africa]
Sim-Sim	1997	688	Portug Acta Biol (B) 17: 53-56, fig 7 [Madeira]
Timme & Redfearn	1997	748	Evansia 14(3): 96
Schumacker & Soldan	1997	1348	Ibex 4: 36 [Italy, Gran Paradiso NP]
Sha, Yang & Teng	1998	1221	Chenia 5: 97-101 [karyolocial study, China]
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
Casas	1998	768	Orsis 13: 20 [checklist Spain]
Puche, Gimeno & Segarra	1998	990	Orsis 13: 38 [Spain, Valencia]
Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
Qian & Klinka	1998	2262	Plants of British Columbia: 339 [Canada]
Gökler	1998	1270	Turk J Bot 22: 411 [Turkey]
Duell	1999	1048	Contrib Bryofl Yugoslavia Bulgaria: 100 [Slovenia, Croatia]
He & Piippo	1999	1212	Bryobrothera 5: 97 [linear ocelli]
Johannsson	1999	1211	Fjölrit Náttúrufraedistofnunar 38: 96, fig 61, map 62 [Iceland]
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]

Boudier	1999	1277	Crypt Bryol 20(4): 275 [France]
Duell	1999	1047	Contrib Bryofl Yugoslavia Bulgaria: 183 [Bulgaria]
Ros, Cano & Guerra	1999	759	J Bryol 21: 235 [Algeria, Morocco; checklist of Northern Africa]
Ganeva & Duell	1999	1046	Contrib Bryofl Yugoslavia Bulgaria: 118 [Bulgaria]
Sim-Sim	1999	720	Crypt Bryol 20 (2): 120-125, fig 21(a-l), 22 [Portugal, Madeira]
Paton	1999	828	Liverwort flora British Isles: 467-469, fig 231
Pavletic, Martincic & Duell	1999	1045	Contrib Bryofl Yugoslavia Bulgaria: 9 [Slovenia, Croatia, Bosnia-Herzegowina, Serbia-Montenegro, Macedonia]
Cetin	1999	1269	Turk J Bot 23: 116 [Turkey]
Tian	1999	1327	Guihaia 19(2): 121 [China]
Ros, Cano & Guerra	1999	1013	http://www.um.es/dp-biologia-vegetal/lab-briologia/Check-list.PDF:40 [checklist of Northern Africa]
Konrat & Braggins	1999	725	Trop Bryol 17: 105 [Macaronesia; commonly epiphyllous]
NN	2000	1928	Census list of Irish liverworts [Ireland]
Sabovljevic	2000	773	Lindbergia 25 (1-2): 132 [Yugoslavia]
Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-62 [key to European & Macaronesian species (1st ed)]
Lütt, Eckstein & Schulz	2000	998	http://www.biologie.uni-hamburg.de/ialb/herbar/hh_rl_br.htm [Hamburg]
Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 433-434, fig 217(1-6) [China, Yunnan]
Infante	2000	1035	Guineana 6: 217-218 [map, País Vasco] & 325-326
Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia]
Kaiser	2001	774	Natur und Mensch, Jubiläumsausgabe 200 Jahre NHG: 227 [Germany, Bavaria]
Izquierdo Zamora	2001	2885	Lista especies silvestres Canarias, banco datos bidiversidad: 89 [Canarias H P G T C F L]
Greene	2001	1255	Liverworts & hornworts of New England: 7 of 9 [USA, New England (CT MA ME NH RI VT)]
Paul, König & Muhle	2001	1245	Phytochemistry 57: 307-313 [chemical constituents]
Poeley & Rose	2001	1201	J Bryol 23: 197-199 [Britain]
Grims	2001	1136	Moosherbar in hb LINZ [Internet]
Dierssen	2001	779	Bryophyt Bibl 56: 217 [ecology in European bryophytes]
Frahm	2001	1353	Limprichtia 19: 24, map [Vosges]
Bai	2001	1742	Guizhou Science 19(4): 50 [China, Yunnan]
Meinunger & Schröder	2001	1693	Naturschutzreport 18: 302 [Germany, Thuringia - red list: 3 = vulneranle]
Olivan, Fuertes & Acon	2001	780	Crypt Bryol 22 (2): 134 [Spain: Catabria]
Söderström, Hassel & Weibull	2002	2672	Distribution maps - Northwestern Europe, vol 1: 20 [map]
Zechmeister, Tribsch, Moser & Wrbka	2002	1295	Biol Conservation 103: 180 [IUCN threat category in Austria: 2; VU r: EN; 1;47]
Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 252-254, pl 50 (1-12), map 11 - Unpublished thesis.
Guerra et al	2002	1384	Anales Biologia: 24: 106 [Spain]
Sotiaux & Schumacker	2002	1055	Lejeunia, ns 170: [Andorra]
Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
Otte	2002	1354	Peckiana 2: 142 [no longer in Niederlausitz]
Becker	2002	987	http://www.ijon.de/moose/geni/frullania.html
Geisller, Bagutti, Bisang, Müller, Schnyder, Schubiger-Bossard & Urmi	2002	1003	Herzogia 15: 204, fig13 [distribution & map of Switzerland and Lichtenstein]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Cape Verde] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Kattel	2002	1032	Liverworts of Nepal, Katmandu: 20 [Nepal, 1360-2300 m]
Bai	2002	1189	Chenia 7: 23 [Yunnan, China]
Peng, Luo & Wu	2002	1191	Chenia 7: 103 [China, Guiyang Prov.]
Zhu, Wang & Chen	2002	1193	Chenia 7: 136 [China, Fujian Prov.]
Srivastava & Alam	2002	1251	J Bombay Nat Hist Soc 99(2): 233-234 [Nilgiri, key to South Indian species]
Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 601-604, fig 242 [map], pl 229(1-9) [key to var., Northern Europe]
Uribe & Gradstein	2003	1071	Crypt Bryol 24 (3): 195 [as new lectotype of subgen Thyopsiella]
Sonnenburg, Gerken, Wagner & Ebersbach	2003	2749	LÖBF-Mitteilungen 4/03: 38 [Hutewaldprojekt im Naturpark Solling-Vogler]
Pokorny et al.	2003	1316	Bol Soc Esp Briol 22/23: 3 [Spain]
Li	2003	1505	Memoirs Hong Kong Nat Hist Soc 26: 84 [Hong Kong]
Ducombs et alii	2003	1308	Contact Dermatitis 48(3): 158-161 [Contact dermatitis]

	Johannsson	2003	1008	Fjölrit Náttúrufraedistofnunar 44, http://www.floraisland.is/mosalisti.htm [Iceland]
	Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 165-166 [annotated checklist of Portugal]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Gonzalez-Mancebo, Losada-Lima & McAlister	2003	1097	Bryologist 106 (3): 386-390 [host specificity in a laurel forest on Tenerife]
	NN	2003	1264	http://www.mapmate.co.uk/checklist/frullaniaceae.htm [checklist of UK]
	Sim-Sim, Carvalho, Figueiredo, Esquivel, Fontinha, Lobo, Barroso & Pedro	2003	1210	Bocagiana 210: 5 [Madeira]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1136, fig 534(1-6) [China]
	Gabriel & Bates	2003	1200	J Bryol 25: 101-105 [Azores]
	Ganeva & Natcheva	2003	1299	Crypt Bryol 24 (3): 231 [Bulgaria]
	Erzberger &Papp	2004	1326	Studia Bot Hung 35: 103 [Hungary]
	But	2004	147	Checklist of Hong Kong
	Bernedo, Audicana & alii	2004	1307	Contact Dermatitis 50(4): 252-253 [Conact dematitis]
	Gonzalez-Mancebo, Romaguera, Losada-Lima & Suarez	2004	1297	Acta Oecologica 25: 159-167 [Tenerife; as epiphyt on Laurus azorica]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Cape Verde] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Grolle	2004	1289	J Bryol 26: 61-61 [Lectotypification of Frullania]
	Röller	2004	1334	Pollichia-Kurier 20 (2): 14 [Germany, Westwall-Bunker]
	Bischler	2004	1103	Bryophyt Bibl 61: 121-122 [Mediterranean], fig 30 [map]
	Tautz & Weddeling	2004	2748	Limprichtia 24: 209-236 [(Süderbergland, Rhein-Sieg-Kreis)
	Nair et al.	2005	3031	Bryophytes of Wayanad in Western Ghats: 65 [India, Western Ghats]
	Frahm	2005	1356	Trop Bryology 26: 74 [Azores]
	Hebrard	2005	1365	Crypt Bryol 26(2): 201 [France; Alpes-Maritimes]
- syn nov	Szweykowski	2006	2547	Checklist of Polish Liverworts and Hornworts: 28 [Poland]
	Gabriel, Pereira et alii	2006	2238	AMCS Bulletin 19 / SMES Boletín 7: 261 [Portugal, Azores, Graciosa Isl]
	Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 110 [Madeira, annotated catalogue]
	Frahm, Stapper & Franzen-Reuter	2007	2406	KRdL Schriftenreihe Band 40: ohne Nr, [Umweltgütezeiger E: 8 = sehr empfindliche Art], pl. 21.
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries]
	NN	2008	1929	Synoptic list of the Bryophytes of Ireland [Ireland]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Lima, Dirkse, Núñez & González Mancebo	2009	1262	Lista especies silvestres Canarias,108 [Canarias H P G T C F L]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 158 [Galapagos Isl ??, Floreana, collected by Darwin (see EVANS 1902); occurrence of this holarctic species in Galapagos is unlikely]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: ARC, EUR, CAUC, SIB, FAR EAST]
	Casus, Brugués, Cros, Sérgio, Infante	2009	1983	Handbook Liverw Iberien penins & Bal Isl., 146, fig53(1-3)[Iberian Peninsula, Mallora, Menorca]
	Papp, Erzberger, Ódor, Hock, Szövényi, Szurdoki & Tóth	2010	2852	Studia bot. Hung. 41: 35 [checklist Hungary, status NT Near threatened, indicator (rock, grasland)]
	Stern	2010	2703	Atlas of the Bryophytes of South Hampshire: 8 [map]
	Stefanut	2010	2691	Transylv. Rev. Syst. Ecol. Res. 9: 59 [Romania]
	Düll	2010	2751	Autoekologie der Moose Mitteleuropas: 72-73 [ecology]
	Heinrichs et al	2010	2834	Molecular Phylogenetics and Evolution 56(3):1105-1114 "one species or atl east eight?"
	Howarth	2011	5110	Thesis: 253 [?? Peru, epiphytic cloud forest]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Blackstock	2015	4222	Journal of Bryology 37(3):202-208 [Sex expression and sporophyte frequency]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 53-54, fig 42 [checklist & revision of genus Fullania, not in Thailand]
	Daniels & Kariyappa	2019	5109	Bryoflora of Agasthyamalai Biosphere Reserve: 423-426, fig 156(a-n) [India (Western Ghats, keys]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 3873 [(Galapagos) Ecuador, probably misidentified]

tamarisci var. robusta fo. brunnea Schiffn. 1936 2443

Subgenus: Frullania

Typus: Norwegen: Eknes bei Bergen, zwischen Gestrüpp (Juniper u s). 17. August 1903, leg. E. J ö r g e n s e n.

Basionym:

Distribution:

	Schiffner	1936	992	Krit Bemerk europ Leberm, ser 20: 21 [Hepat europ exsicc, nr. 992]

tamarisci var. atrovirens Carrington 1863 1981

Subgenus: Frullania

Typus: Ireland. Killarney, Eagle's Nest sd, Carrington

in hb EGER [Topotype or cotype]

Basionym:

Distribution: Ireland, Turkey

var nov	Carrington	1863		Trans Proc Bot Soc Edinburgh 7: 457 (=Transactions and Proceedings of the Botanical Society of Edinburgh)
	Lindberg	1875	1582	Acta Societatis Scientiarum Fennicae 10: 475
	Corbiere	1889	1704	Mem Soc Nat Sci Nat Math Cherbourg 26: 345
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 613, 615 [Irland, Schottland, Norwegen, Frankreich, Italien, Schweiz]
	Jorgensen	1934	225	Bergens Mus Skrift 16: 329
	Schiffner	1936	437	Österr Bot Zeitschr 85 (2): 127 [=Hep eur Exsicc 986] [Ireland: Killarney]
	Schiffner	1936	992	Krit Bemerk europ Leberm, ser 20: 17-18 [Hepat europ exsicc, nr. 986]
	Arnell	1956	43	Moss Flora of Fennoscandia: 257
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1236
	Bonner	1965	655	Index Hepat 5: 444
- syn nov	Hattori	1972		
	Pocs	1976	2686	Fol. Hist. nat. Mus. Matr. 4: 19 [types in hb EGER]
	Cetin	1988	1050	Lindbergia 14: 14 [Turkey]
	Frey & Kürschner	1991	1033	Bryophyt Bibl 39: 31 [Turkey]
	Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 602 [key to var., Northern Europe]

tamarisci var. cornubica Carrington 1878 1944

Subgenus: Frullania

Typus: England. Cornwall, near Penzance -.6.1876, W. Curnow 49

G & Rab exs Nr 637
in hb E E00108027 [isotypus]

Basionym:

Distribution: Norway, Ireland, Canary Isl (Te)[Spain]

	Carrington in Carrington & Pearson	1878		Hep Brit Exsicc 49
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 613, 615 [Großbritannien]
	Jorgensen	1934	225	Bergens Mus Skrift 16: 329 [Norway]
	Schiffner	1936	437	Österr Bot Zeitschr 85 (2): 129-132, fig 2 [Ireland: Killarney]
	Schiffner	1936	992	Krit Bemerk europ Leberm, ser 20: 22 [Hepat europ exsicc, nr. 994]
	Arnell	1956	43	Moss Flora of Fennoscandia: 257 [Norway]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1236
	Bonner	1965	655	Index Hepat 5: 445 [British Isles]
	Augier & Noailes	1969	829	Ann Fac Sci Univ Fed Cameroun 2: 32 [Canary Isl: Tenerife]
	Hattori	1972	536	J Hatt Bot Lab 35: 226 [syn sub Fr. tamarisci]
	Eggers	1984	22	Crypt Bryol Lichen 3 (4): 289
	Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 602 [key to var., Northern Europe]

tamarisci var. microphylla Gottsche 1862 758

Subgenus: Frullania

Typus: Irland. Hibernia, Killarney, Old Weir Bridge 1861, Carrington sn

in hb JE [lectotypus by Grolle 1970],
in hb G 13924,
in hb GOET 7260 (=Carrington209)
in hb HAL, …. [isotypus]

Basionym:

Distribution:

	Gottsche in Gottsche & Rabenhorst	1862		Hep Europ Exsicc no 209, Dresden 1862 [error "109"]
	Carrington	1863		Trans Proc Bot Soc Edinburgh 7: 457 "Transactions and Proceedings of the Botanical Society of Edinburgh"
	Corbiere	1889	1704	Mem Soc Nat Sci Nat Math Cherbourg 26: 345
	Pearson	1894	1949	J Bot Brit Foreign 32: 328-330
	Stephani	1911	686	Spec Hepat 4: 567 [not mentioned as syn of Fr. microphylla]
bas	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 623 [basionym of Fr microphylla]
	Bonner	1965	655	Index Hepat 5: 447
	Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 310 [lectotypification]
	Grolle	1976	183	Feddes Repert 87 (3/4): 194 [types]

tamarisci var. robusta Lindb. 1875 1995

Subgenus: Frullania

Basionym:

Distribution: Ireland, Norway, Morocco

var nov	Lindberg	1875	1582	Acta Societatis Scientiarum Fennicae 10: 475-478
	Müller in Rabenhorst	1915	1064	Krypt Flora (2ed) 6, 2: 612, 615 [Baden, Norwegen, Irland, England, Schottland]
	Jorgensen	1934	225	Bergens Mus Skrift 16: 328 [Norway]
	Schiffner	1936	437	Österr Bot Zeitschr 85 (2): 127 [Ireland: Killarney]
	Arnell	1956	43	Moss Flora of Fennoscandia: 257
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1235-1236 [close to Fr. germana]
	Bonner	1965	655	Index Hepat 5: 447
- syn nov	Hattori	1972	536	J Hatt Bot Lab 35: 226
	Ros, Cano & Guerra	1999	759	J Bryol 21: 235 [Morocco; checklist of Northern Africa]
	Ros, Cano & Guerra	1999	1013	http://www.um.es/dp-biologia-vegetal/lab-briologia/Check-list.PDF:40 [checklist of Northern Africa]
	Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 602 [key to var., Northern Europe]

tamarisci var. laxa Nees 1845 439

Subgenus: Frullania

Typus: Norfolk Island, Sitcha

in hb LE

Basionym:

Distribution: Norfolk Isl

	Nees in G., L. & N.	1845	2850	Syn Hepat: 439
	Bonner	1965	655	Index Hepat 5: 446

tamarisci var. schiffneri Nicholson 1933 2000

Subgenus: Frullania

Typus: England. Cornwall, Lizard Peninsula, 5.6.1932 Nicholson , 26.5.1932 Nicholson

in hb PC [isotypus]
in hb GZU (998 & 999)
in hb E E00007481 (?? 15.8.1878, Curnow sn ??) [syntypus]
in hb EGER [syntypus]

Basionym:

Distribution: Great Britain, Ireland, Portugal, Madeira [Portugal]

var nov	Nicholson	1933	117	J Bot British and foreign 71: 347-348
	Schiffner	1936	437	Österr Bot Zeitschr 85 (2): 127 [Ireland: Killarney]
	Schiffner	1936	992	Krit Bemerk europ Leberm, ser 20: 23-24 [Hepat europ exsicc, nr. 998, 999] - var nov ???
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1236
	Bonner	1965	655	Index Hepat 5: 448
	Augier & Noailles	1969	829	Ann Fac Sci Univ Fed Cameroun 2: 33 [Canary Isl: Tenerife]
	Hattori	1972	536	J Hatt Bot Lab 35: 226
	Eggers	1984	22	Crypt Bryol Lichen 3 (4): 289
	Sim-Sim	1999	720	Crypt Bryol 20 (2): 124-125
	Suanjak	2001	979	http://www.kfunigraz.ac.at/botanik/gzu-hepaticae-typen2.htm [in hb GUZ]
	Sim-Sim, Carvalho, Figueiredo, Esquivel, Fontinha, Lobo, Barroso & Pedro	2003	1210	Bocagiana 210: 5 [Madeira]
	Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 166 [annotated checklist of Portugal]

tamarisci ssp. obscura var. vietnamica (S.Hatt.) S.Hatt. 1985 1447

Subgenus: Frullania

Basionym: Frullania iwatsukii ssp. vietnamica S.Hatt. 1976

Distribution:

comb nov	Hattori in Hattori & Lin	1985	505	J Hatt Bot Lab 59: 162 [China: Sichuan, Yunnan] [as Fr. tamarisci ssp. obscura var. vietnamica]
	Piippo	1990	521	J Hatt Bot Lab 68: 47 [annotated catalogue of China]
	Piippo, He & Koponen	1997	628	Ann Bot Fennici 34: 52, 61 [Sichuan] [error, as Fr. tamarisci var. vietnamica]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China, [error, as Fr. tamarisci var. vietnamica]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 434 [China, Yunnan, error, as Fr. tamarisci var. vietnamica]
	Bai	2001	1742	Guizhou Science 19(4): 51 [China, Yunnan, as Fr. tamarisci var. vietnamica]
	Bai	2002	1189	Chenia 7: 23 [Yunnan, China, as Fr. tamarisci var. vietnamica]

tamarisci ssp. obscura var. elongatistipula (Verd.) S.Hatt. 1985 1444

Subgenus: Frullania

Basionym: Frullania moniliata ssp. obscura var. elongatistipula Verd. in Hand.-Mazz. 1930

Distribution: China (Xizang, Yunnan)

comb nov	Hattori in Hattori & Lin	1985	505	J Hatt Bot Lab 59: 161 [für Fr moniliata var elongatistipula Verd. in H-M 1930]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China] [as Fr tamarisci var elongatistipula]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 434, fig 218(1-10) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 51 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 23 [Yunnan, China] Frullania tamarisci var elongatistipula (Verd.) S.Hatt.
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1136, fig 533(1-10) [China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 247(1-10) [key in Chinese]

tamarisci var. atlantica Schiffn. 1936 1980

Subgenus: Frullania

Typus: Ireland.Killarney -.8.1911, D.A. Jones & J.B. Duncan 993A

in hb GZU (SW-Irland: Bei Killarney: a. An Laubbäumen; b. an Stämmen von Arbutus. Aug. 1911, leg. D. A. Jones et J. B. Duncan)
in hb E E00007478 [isotypus]
in hb EGER [isotypus]

Basionym:

Distribution: Ireland

var nov	Schiffner	1936	992	Krit Bemerk europ Leberm, ser 20: 22 [Hepat europ exsicc, nr. 993a, 993b]
	Schiffner	1936	437	Österr Bot Zeitschr 85 (2): 127-129, fig 1 [var nov] [Ireland: Killarney]
	Schiffner	1936	2561	Krit Bemerk europ Leberm, ser 21: 4 [Hepat europ exsicc, nr. 1006 pp]
	Müller in Rabenhorst	1958	1028	Krypt Flora (3ed) 6, 2: 1236
	Bonner	1965	655	Index Hepat 5: 444
	Hattori	1972	536	J Hatt Bot Lab 35: 226
	Casas	1998	768	Orsis 13: 20 [checklist Spain]
	Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
	Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
	Suanjak	2001	979	http://www.kfunigraz.ac.at/botanik/gzu-hepaticae-typen2.htm [in hb GZU]

tamsuina Steph. 1910 440

Subgenus: Trachycolea

Typus: Taiwan. Tamsui 22.5.1904, U. Faurie 43

in hb G [holotypus]
in hb KYO [isotypus]
in hb TNS [isotypus]
in hb HIRO [isotypus]

Basionym:

Distribution: China, Taiwan, Japan, Ryukyu (Okinawa, Ishigaki, Iriomote, Kikaijima, Yoronjima), Burma?, New Guinea?

	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 17 [as Fr. tamsuiana] [key to Japanese species, in Japanese]
spec nov	Stephani	1910	686	Spec Hepat 4: 444-445
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Horikawa	1934	34	J Sci Hiroshima Univ, ser B, div 2, 2: 240-241 [Japan, Taiwan]
	Hattori	1944	1911	J Jap Bot 20 (2): 157, fig. 36 [female]
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 133
	Herzog & Noguchi	1955	859	J Hatt Bot Lab 14: 43 [Botel Tobago]
	Svihla	1960	395	Bryologist 63: 105-106, fig. 1-5 [male] [Burma]
	Hattori & Noguchi	1960	965	Index spec Typ herb Japon, Bryophyta: 18
	Bonner	1965	655	Index Hepat 5: 448
	Amakawa	1967	1931	Biol Fukuokana 7: 49
	Shin	1968	844	Sci Rep Kagoshima Univ 17: 204 [Ryukyu Arch.]
	Shin	1970	302	Sci Rep Kagoshima Univ 19: 38 [Ryukyu: Okinawa, Ishigaki, Iriomote]
	Hattori	1974	545	J Hatt Bot Lab 38: 185 [Hong Kong]
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 169 [Index to Taiwan; Fr. formosae as syn nov]
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 69 [Burma doubtful]
	Hattori	1982	495	J Hatt Bot Lab 51: 263
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-189, microfiche 52 fig 3591 ["Formosa, Tamsui, Faurie 43, Mai 1903"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 146 [China]
	Yamada, Yuzawa, Ogasawara & Lai	1986	950	J Taiwan Mus 39 (1): 63 [Taiwan]
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 14
	Kuo & Chiang	1988	948	Taiwania 33: 13 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 35-38, fig 31(a-n) [Japan, keys to species; in Japanese]
	Li	2003	1505	Memoirs Hong Kong Nat Hist Soc 26: 84 [Hong Kong]
	NN	2003	1397	Types of Nat Hist mus Hiroshima [http://www.digital-museum.hiroshima-u.ac.jp/~museum/types/pages/hepa/f/hirotypeHepaF.html]
	But	2004	147	Checklist of Hong Kong
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 33 [Catalog of Japan]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

taradakensis Steph. 1910 617

Subgenus: Trachycolea

Typus: Japan. Taragake 1899, Faurie 319

in hb G 3710

Basionym:

Distribution: Russia (Far East), China (Inner Mongolia, Hubei, Heilongjiang, Jilin, Liaoning, Yunnan, Gansu, Shaanxi, Zhejiang), Japan, Korea (South)

spec nov	Stephani	1910	686	Spec Hepat 4: 352 [as Chonanthelia]
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Hattori	1952	1508	J Jap Bot 27(10): 315 & 317 [Japan]
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 133-134
	Hattori	1952	529	J Hatt Bot Lab 8: 31
	Hattori	1953	530	J Hatt Bot Lab 10: 38-39, fig 49(a-l)
	Hattori	1957	858	J Hatt Bot Lab 18: 118
	Kamimura	1961	199	J Hatt Bot Lab 24: 47, fig 17(1-28), map 4
	Hong & Kim	1961		Hikobia 2: <244-252> [aus 717]
	Hong & Yoo	1961		Hikobia 2: <244-252> [aus 717]
	Hong	1962		[aus 717]
	Hattori, Hong & Inoue	1962	876	J Hatt Bot Lab 25: 285 [Korea]
	Bonner	1965	655	Index Hepat 5: 448-449
	Hong	1966	1107	Bryologist 69 (1): 413 [South Korea]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 136-137 [Central Japan]
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Koponen	1979	2204	Ann Bot Fennici 16 (2): 98
	Choe	1979		Rep Korean Association Conservation Nature 14: [aus 717]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 735-736 [South Korea]
	Inoue	1981	963	Mem Natn Sci Mus Tokyo 14: 65 [Japan, Mt. Fuji]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 257 [China]
	Koponen et al	1983	3481	Ann Bot Fennici 20: 221
	Aur & Zhang	1985	1022	Fl Heilongjiangensis 1: 163-168, fig 57(1-21) [China]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A-102, microfiche 48 fig 3216 [from type; Japan Tarabake 10/6.1899 Faurie 319"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 146
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	Konstantinova, Potemkin & Schijakov	1992	651	Arctoa 1:102 [USSR]
	Bai	1993	1225	Chenia 1: 94 [China, Inner Mongolia]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 288 [Korean Peninsula]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	Gambaryan	1998	1222	Chenia 5: 132 [Russia Far East]
	Söderström	2000	765	Lindbergia 25: 43 [China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 400-402, fig 200(1-6) [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 45 [China, Yunnan]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 38, fig 33(a-q) [Japan, keys to species; in Japanese]
	Bai	2002	1189	Chenia 7: 19 [Yunnan, China]
	Li & Zhao	2002	1190	Chenia 7: 117 [China, Hubei]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1105-1108, fig 516(1-6) [China]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	NN	2005	1395	[in Russian] page 2 of 3
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 33 [Catalog of Japan]
	Song & Yamada	2006	1445	J H B L 100: 446 [from Jeju (Cheju) Isl, Korea]
	Konstantinova & Bakalin	2009	2113	Arctoa 18: 15 [Checklist of liverworts of Russia: FAR EAST]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 235(1-6) [key in Chinese]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

teneriffae (F.Weber) Nees 1838 621

Subgenus: Frullania

Basionym: Jungermannia teneriffae Weber 1815

Distribution: England [St. Kilda], Ireland, Portugal, France, Spain, Madeira [Portugal], Azores [Portugal], Canary Isl (Fu Go GC Hi Pa Te)[Spain], Morocco, ?China (Zhejiang), ? Nepal

Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
Nees	1838	261	Naturg Europ Leberm 3: 239
Montagne in Barker-Webb & Berthelot	1840	910	Hist Nat Iles Canariensis 3,2,4: 55-56
Nees in G., L. & N.	1845	2850	Syn Hepat: 451-452
Reichardt	1870	884	Reise österr Fregatte Novara, Bot Theil, Bd 1: 154 [Madeira]
Schiffner	1901	35	Österr Bot Zeitschr 51 (4): 119 [Canary Isl] [as Fr. teneriffae N. ab E.]
Schiffner	1902	905	Hedwigia 41: 280-281
Bryhn	1908	1585	Kgl Norske Vid Selks Skrift 8: 12 [Bryoph Archipel Canar, Teneriffa]
Luisier	1910	913	Broteria, ser Bot 8 (1): 34 [Madeira]
Stephani	1911	686	Spec Hepat 4: 563
Armitage	1926	866	Bryologist 29:50
Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 496-497 [Azoren]
Schiffner	1936	277	Österr Bot Zeitschr 85 (1): 27-29 [isotypes]
Schiffner	1936	2561	Krit Bemerk europ Leberm, ser 21: 1-3 [Hepat europ exsicc, nr. 1001]
Ade & Koppe	1942	206	Hedwigia 81 (1/2): 34 [Madeira]
Mädgefrau	1943	2799	Flora NF 35: 136 [Teneriffa]
Arnell	1961	180	Svensk Bot Tidskr 55 (2): 392 [Canary Isl]
Augier & Noailles	1969	829	Ann Fac Sci Univ Fed Cameroun 2: 29, 31, 33 [Canary Isl: Tenerife]
Grolle	1970	615	Wiss Z Fried Schiller Univ Jena, Math Nat Reihe 19 (3): 313 [holotype][key to europa & macaronesia]
Hattori	1972	536	J Hatt Bot Lab 35: 234- , fig 11(g-l,o-r)
Vanden Berghen	1973	1736	Bull Soc Roy Bot Belg 106(2): 366 [en Islande]
Sjögren	1975	733	Svensk Bot Tidskr 69: 260-261 [epiphyllous, Madeira]
Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 115-119, fig 28
Grolle	1976	183	Feddes Repert 87 (3/4): 194-195
Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 356 [map of Africa]
Sjögren	1978	1696	Mem Soc Brot 26: 129-130 [Azores]
Eggers	1982	22	Crypt Bryol Lichen 3 (4): 289 [Macaronesia]
Düll	1983	620	Bryol Beitr 2: 68 [Europe & Macaronesia]
Grolle	1983	144	J Bryol 12: 421 & 439 [checklist Europe]
Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F-202ab, microfiche 60 fig 4166 ["Madeira, Herb Lipsiense"] - 4167 ["Teneriffae, leg Engler 1901"]
Schwab, Schäfer-Verwimp & alii	1986	101	Bryol Beitr 6: 7 [Gomera]
Schumacker	1988	1735	Bot Rhedonica ns 1: 95-102, fig(1-30), [France] distribution map europe
Malme	1988	625	Sommerfeltia 7: 17 [Fuerteventura, Lanzarote]
Sim-Sim	1989	6	Portug Acta Biol (B) 15: 365 [Portugal]
Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 257 [key to Europe & Macaronesia] & 260
Piippo	1990	521	J Hatt Bot Lab 68: 48 [not in China]
Smith	1990	177	Liverwort Britain & Ireland: 251-253, fig 110 [key] [=teneriffae (WEB.) NEES 1838]
Sim-Sim & Sergio	1991	1194	IX Simposio Nacional Bot Cript, Salamanca: 252 [Madeira]
Dirkse, Bouman & Losada-Lima	1993	11	Crypt Bryol Lichen 14 (1): 5 [Canary Isl]
Boecker, Fischer & Lobin	1993	428	Nova Hedwigia 57 (1-2): 226 [epiphyllous]
Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 114 [key to european species]
Long, D. D. & Ratcliffe, D. A.	1996	272	J Bryol 19: 97
Sim-Sim	1997	688	Portug Acta Biol (B) 17: 50-52, fig 4 [Madeira]
Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
Casas	1998	768	Orsis 13: 20 [checklist Spain]
Casas	1998	996	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/A%20ChekHep.htm
Casas	1998	997	Orsis 13: 20 [checklist Spain] http://einstein.uab.es/mbrugues/hepati.htm
Paton	1999	828	Liverwort flora British Isles: 469-471, fig232
Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
Sim-Sim	1999	720	Crypt Bryol 20 (2): 108-111, fig 13(a-m), 14 [Portugal, Madeira]

	Ros, Cano & Guerra	1999	1013	http://www.um.es/dp-biologia-vegetal/lab-briologia/Check-list.PDF:40 [checklist of Northern Africa]
	Ros, Cano & Guerra	1999	759	J Bryol 21: 235 [Morocco; checklist of Northern Africa]
	Konrat & Braggins	1999	725	Trop Bryol 17: 105 [Macaronesia, commonly epiphyllous]
	NN	2000	1928	Census list of Irish liverworts [Ireland]
	Grolle & Long	2000	760	J Bryol 22: 111 [checklist of Europe and Macaronesia]
	Schumacker & Vana	2000	800	Doc Stat sci Hautes-Fagnes 31: 59-62 [key to European & Macaronesian species (1st ed)]
	Grims	2001	1136	Moosherbar in hb LINZ [Internet]
	Izquierdo Zamora	2001	2885	Lista especies silvestres Canarias, banco datos bidiversidad: 89 [Canarias H P G T C F]
	Dierssen	2001	779	Bryophyt Bibl 56: 217 [ecology in European bryophytes]
	Söderström, Hassel & Weibull	2002	2672	Distribution maps - Northwestern Europe, vol 1: 20 [map]
	Söderström, Urmi & Vana	2002	1415	Lindbergia 27: 17 [Distribution in Europe and Macaronesia]
	Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 600-601, fig 241 [map], pl 228(1-5) [Northern Europe]
	Gonzalez-Mancebo, Losada-Lima & McAlister	2003	1097	Bryologist 106 (3): 386-390 [host specificity in a laurel forest on Tenerife]
	Sergio & Carvalho	2003	1352	Portug Acta Biol (B) 21: 166 [annotated checklist of Portugal]
	NN	2003	1264	http://www.mapmate.co.uk/checklist/frullaniaceae.htm [checklist of UK]
	Lara et al.	2003	1317	Bol Soc Esp Briol 22/23: 14 [Canary Island, Fuerteventura]
	Sim-Sim, Carvalho, Figueiredo, Esquivel, Fontinha, Lobo, Barroso & Pedro	2003	1210	Bocagiana 210: 5 [Madeira]
	Gonzalez-Mancebo, Romaguera, Losada-Lima & Suarez	2004	1297	Acta Oecologica 25: 159-167 [Tenerife; as epiphyt on Laurus azorica]
	Bischler	2004	1103	Bryophyt Bibl 61: 241 [Mediterranean]
	Frahm	2005	1356	Trop Bryology 26: 74 [Azores]
	Sérgio, Sim-Sim & Carvalho	2006	2533	Bol Mus Mun Funchal, Sup. 10: 110 [Madeira, annotated catalogue]
	Ros, Mazimpaka, Abou-Salama, et alii	2007	1477	Crytogamie Bryologie 28(4) 366-367 [Mediterranean countries: Canary Isl., Spain, Greece, Morocco, Madeira, Portugal]
	NN	2008	1929	Synoptic list of the Bryophytes of Ireland [Ireland]
	Lima, Dirkse, Núñez & González Mancebo	2009	1262	Lista especies silvestres Canarias,108 [Canarias H P G T C F]
	Casus, Brugués, Cros, Sérgio, Infante	2009	1983	Handbook Liverw Iberien penins & Bal Isl., 143-146, fig52(13) [Portugal]
	Pradhan	2014	6330	[new to Nepal]

teneriffae var. germana (Taylor) Bisang, Schumacker, Sérgio & Grolle 1988 2016

Subgenus: Frullania

Basionym: Jungermannia germana Taylor 1843

Distribution: Ireland

comb & stat nov	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 257 [key to Europe & Macaronesia], 260-261
	Frey, Frahm, Fischer & Lobin	1995	606	Kleine Kryptogamenflora 5: 114 [key to european species]
	Grims	2001	1136	Moosherbar in hb LINZ [Internet]

teneriffae fo. explanata (Macvicar) Bisang, Schumacker, Sérgio & Grolle 1988 2017

Subgenus: Frullania

Basionym: Frullania germana var. explanata Macvicar 1912

Distribution: Great Britain

fo nov	Bisang, Schumacker, Sérgio & Grolle	1989	276	Giorn Bot Ital 122: 257 [key to Europe & Macaronesia]
	Damsholt	2002	1020	Illust Fl Nordic Liverworts & Hornworts: 601 [comb n. as Fr teneriffa fo explanata]

tenuirostris Steph. 1911 625

Subgenus: Trachycolea

Typus: Neu Caledonia. dent de St. Vicent -.7.1909, Le Rat 204

in hb G

Basionym:

Distribution: New Caledonia

spec nov	Stephani	1911	686	Spec Hepat 4: 462
	Verdoorn	1930	293	Ann Bryol Suppl 1: 162 [syn sub Fr. ludviciae]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2):
	Bonner	1965	655	Index Hepat 5: 450
	Hattori	1977	479	J Hatt Bot Lab 43: 436 [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 140 [syn sub Fr. ludviciae]
	Hattori	1984	503	J Hatt Bot Lab 57: 421-423, fig 7 [description]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-190, microfiche 52 fig 3592 ["N Caledonia, le Rat (Theriot No 204)"]
	Hattori	1986	506	J Hatt Bot Lab 60: 218

ternatensis Gottsche 1846 627

Subgenus: Frullania

Typus: Insula Ternante / Java sd, Reinwardt / Hasskarl in hb NEES (G sn) vide #1513
in hb GLM (hb GOTTSCHE) 06007
Java, Hasskarl s.n. [lectotype] ((lectotype nov., G!, URIBE-M 2011: 74)
Ternate, Reinwardt s.n. [paralectotype]
Java, Belanger s.n [paralectotype]

Basionym:

Distribution: Taiwan, Sri Lanka, Vietnam, Laos, Malaysia (Kedah, Pahang, Sarawak, Sabah), Borneo, Indonesia (Sumatra, Bangka, Java, Bali, Ceram, Sulawesi, Ternate), Philippines (Luzon, Mindanao, Negros, Palawan), New Guinea, Vanuatu (Aneityum), Fiji (Viti Levu)

spec nov	Gottsche in G., L. & N.	1846	2849	Syn Hepat: 465 (No 121)
	Sande Lacoste in Vriese	1856	2069	Plantae Indiae Batavae Oientalis: 24-25 [Ternate]
	Sande Lacoste in Junghuhn	1857	1490	Plantae Junghuhnianae, Hepaticae: 542
	Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 92-93
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 314 [Java, Sumatra, Borneo]
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 346-347
	Stephani	1911	686	Spec Hepat 4: 612-613
	Verdoorn	1929	245	Ann Bryol 2: 151-152 [Java, Sumatra]
	Verdoorn	1930	293	Ann Bryol Suppl 1: 141-143, fig 226-232
	Verdoorn	1931	230	Ann Bryol 4: 123 [Hepat select crit, ser 1 no 42; Java]
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 89; Sumatra]
	Verdoorn	1932	554	Nederl Kruidk Arch Jrg 1932 (2): 499-500 [Sumatra, Java, Borneo, Bali, Celebes, Ambon]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 62 [Sumatra, Java, Molukken, Netherl Neu Guinea]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 206 [Java, Sumatra, Sarawak, Philippinen, Fidschi Inseln] & 215, fig 18 [map]
	Herzog	1949	18	Trans Brit Bryol Soc 1 (3): 318 [Borneo, Sarawak]
	Abeywickrama	1959	200	Ceylon J Sci (Bio Sci) 2 (1): 58 [Sri Lanka]
	Bonner	1965	655	Index Hepat 5: 451
	Hattori	1973	540	J Hatt Bot Lab 37: 81- , fig 41-42
	Tixier	1973	678	Bull Mus Nat Hist Nat Paris, ser 3, 190, Bot 10: 82 [New Hebrides (Anotom) =Vanuatu (Aneityum)]
	Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 77 [Java, Bogor Mt. Tjibodas; Borneo, Mt. Kinabalu]
	Hattori	1975	547	J Hatt Bot Lab 39: 310
	Lai & Wang-Yang	1976	33	Taiwania 21 (2): 169 [Index to Taiwan]
	Hattori	1976	80	J Hatt Bot Lab 40: 501-502 [key to var. ternatensis & var. non-append.]
	Abeywickrama & Jansen	1978	794	MaB Nat Comm Sri Lanka, Publ 1: 5 [Sri Lanka]
	Hattori	1979	129	J Jap Bot 54 (1): 25 [Sri Lanka]
	Tixier	1979	2408	Bryophyt Bibl 18: 64 [Cambodge]
	Onraedt	1981	5794	J Hatt Bot Lab 50: 203 [Sri Lanka]
	Hattori	1982	495	J Hatt Bot Lab 51: 228
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 119 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-64, microfiche 56 fig 3863 ["Java"]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 305 [Philippines]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 36
	Kuo & Chiang	1988	948	Taiwania 33: 14 [Index of Taiwan]
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	Chao & Lin	1991	458	Yushania 8: 16-17 [Taiwan]
	Chao & Lin	1992	460	Yushania 9: 212, fig 19(a-f) [Taiwan]
	Lin & Chen	1997	1130	Biol Bull 75: 114-116, fig 23(a-d) [Taiwan, key to species, in Taiwanese]
	Lin	2000	1524	Liverwort Flora Taiwan: 177, fig p 177(1-3) [Taiwan]
	Gradstein et alii	2005	1381	J Hatt Bot Lab 98: 239 [Sulawesi, Indonesia]
	Aryanti & Gradstein	2007	1476	Cryptogamie Bryologie 28(1): 7 [Sulawesi, Asiatic, lowland & montane]
	Uribe	2008	1513	Caldasia 30(1): 91, [belongs to subgen Thyopsiella] [Monography of subgenus Meteoriopsis]
	Uribe-M.	2011	2767	Caldasia 33(1): 74, fig 3(a-f) from type [type study, lectotypification, belongs to sg Thyopsiella = Frullania]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 5 [Sri Lanka]
Haerida	2015	4229	Floribunda 5(2): [Bali, with key]
Bakalin & Sinh	2016	4553	Tap Chi Sinh Hoc 38(4): 484-485 [Checklist Vietnam]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): <411-445> [Vietnam]
Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 34, photos [Sumatra, with key]

ternatensis var. non-appendiculata S.Hatt. 1974 630

Subgenus: Frullania

Typus: Philippines. Luzon 21.5.1965, Schuster ISE16257

in hb NICH [typus], in hb TENN [isotypus]

Basionym:

Distribution: China (Hainan), Taiwan, Malaysia (Sarawak, Sabah), Borneo, Indonesia (Sumatra, Bali, Ceram), Philippines, New Guinea, Australia (QLD), Fiji

var nov	Hattori	1974	544	J Hatt Bot Lab 38: 174
	Hattori	1975	547	J Hatt Bot Lab 39: 310
	Hattori	1976	80	J Hatt Bot Lab 40: 498-502, fig 195-198(e-g), 200 [pp = Fr. akiyamae vide HATT 1986]
	Hattori	1984	682	Crypt Bryol Lichen 5(1-2): 187-189, fig 5(a-n) [Australia, Queensland]
	Hattori	1985	73	Bull Natn Sci Mus Tokyo, ser B (Bot), 11 (1): 16 [Fiji]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 162 [only in S-Taiwan, wirh key] [Distr.: Sumatra, Borneo, Philippines, Taiwan. ?Queensland (Australia).]
	Hegewald & Zanten	1986	508	J Hatt Bot Lab 60: 268 [Bali]
	Tan & Engel	1986	4286	J. Hatt. Bot. Lab.. No. 60: 305 [Philippines]
	Hattori	1986	507	J Hatt Bot Lab 60: 251 [Seram]
	Kuo & Chiang	1988	948	Taiwania 33: 14 [Index of Taiwan]
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Hattori	1988	516	J Hatt Bot Lab 65: 450 [PNG; Meteoropsis]
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 210 [China: Hainan Isl]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 48 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 28 [only one collection, potentially vulnerable in Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Uribe	2011	2767	Caldasia 33(1):74, fig 3(a-f) [belongs to sg Thyopsiella = Frullania
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

tetraptera Nees & Mont. 1838 215

Subgenus: Chonanthelia Pluricarinatae

Typus: Chile: Valparaiso sd, d´Orbigny sn

in hb PC

Basionym:

Distribution: Mexico, Dominican Rep, Venezuela, Colombia, Peru, Ecuador, Brazil, Paraguay, Chile, Argentina

spec nov	Nees & Montagne	1838	464	Ann Sci Nat Bot, ser 2, 9: 47
	Nees & Montagne in Montagne in Alcide d'Orbigny	1839	257	d'Orbigny, Voyage l'Amerique Merid 7 (2): 70-71
	Nees & Montagne in G., L. & N.	1845	2850	Syn Hepat: 429 (No 38)
	Montagne	1856	1912	Sylloge generum specierumque cryptogamaram: 85-86
	Spruce	1890	898	Mem Torrey Bot Club 1: 118 [Brasil]
	Stephani	1910	686	Spec Hepat 4: 344 [syn sub Fr. gibbosa]
	Stephani	1910	686	Spec Hepat 4: 342 [Chile]
	Herzog	1952	444	Svensk Bot Tidskr 46 (1): 83 [Ecuador]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 85, pl. 13 (146) [Brazil]
	Bonner	1965	655	Index Hepat 5: 451
	Robinson	1967	771	Bryologist 70: 51 [Colombia]
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 114 [Cat Colombia]
	Haarbrink	1981	49	Lindbergia 7 (1): 49-50, fig. 28-34 [Colombia, High Andes]
	Yano	1984	501	J Hatt Bot Lab 56: 507 [checklist Brazil]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 226-228, fig. 24, map 4 a(:283)
	Schuster	1992	603	Hepat N America 5: 262 [syn sub Fr. gibbosa]
	Zanoni	1993		xxxxx [single record from West Indies]
	Wolf	1993	2379	Phytocoenologia 22(1): 60, 89. 91 [Colombia, Epiphyte - Upper montane rain forest communities: communities of the Polylepis dwarf forest, 4130m, Campylopus pitteri community]
	Wolf	1993	2380	Phytocoenologia 22(1): 26 [Colombia, Epiphyte - Lower montane rain forest communities: accidental taxa with preference for the Upper Mountain Rain forest]
	Gradstein	1993	2265	Trop Bryol 7: 81 [Bryophyta Neotropica Exsiccata: Ecuador (184), also in F]
	Drehwald & Reiner-Drehwald	1996	1202	Crypt Bryol Lichenol 17(4): 279-286 [Buenos Aires, Argentina]
	Kürschner & Parolly	1998	681	Nova Hedwigia 66 (1-2): 80 [Peru]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 37 [Catalogue Colombia]
	Gradstein in Luteyn	1999	994	Mem New York Bot Gard 84: 58 [Paramo 3100-3850m: Colombia, Venezuela, Ecuador, Peru]
	Gradstein	1999	5901	Mem N York Bot Gard 84: 68 [Peru, Paramos]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Uribe & Rangel-Ch	2000	1090	Colombia, diversidad biótica III, Bogota: 446 [Colombia]
	Pinzon & Linares	2001	1148	Caldasia 23(1): 241 [Colombia, La Herrera]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91 [not in Brazil]
	Camara & Vital	2004	1367	Acta bot bras 18(4): 884 [Brazil, Panatanal de Mato Grosso]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Schäfer-Verwimp & Pócs	2009	1985	Acta Bot Hungarica 51(3-4): 386 [Dominican Republic, Hispaniola]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 372 [Colombia; synopsis of Frullaniacae & keys]
	Söderström, Hagborg et al.	2013	3831	Polish Botanical Journal 58(1): 270 [Paraguay]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Rodriquez et al.	2017	4629	Arnaldoa 24(1): 255 [Peru, La Libertad]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 381, fig. 39s,t [key -Ecuador, Colombia]
	Gradstein & Pócs	2021	5888	Nova Hedwigia 112(1-2): 59 [Venezuela]

thiersiae S.Hatt. 1988 633

Subgenus: Mammillosae

Typus: Australia. Queensland, Summit of Mt Bellenden Ker, on tree bark in microphyll vine-fern thicket, 1500m 10.7.1984, Bt & RH 2455 in hb NICH [holotypus], in hb AD & NY [isotypus]

Basionym:

Distribution: Australia (QLD)

spec nov	Hattori	1988	429	Nova Hedwigia Beih 90: 156-157, fig 4(a-i)
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 48 [Australia (QLD)]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 24 [rare, only type collection, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38; Holotype. Australia, Cook Distr., Bellenden Ker National Park, summit of Mt. Bellenden Ker. 1500 m. 10 July 1984. B. M. Thiers and R. E. Haling 2455 (NICH 401524).

thouvenotiana var. Larraín, von Konrat, B.E.Carter & Aguero 2018 2465

Subgenus: Microfrullania Microfrullania

Typus: NEW CALEDONIA. Grande Terre, Province Sud: Commune de Dumbéa, Mont Koghis, along trail to the summit starting in the "auberge", through the cascades 18 Oct. 2012, von Konrat 15715

Holotype F; Isotypes, PC, AK, DUKE

Basionym:

Distribution:

spec nov	Larrain et all	2018	5012	Bry. Div. Evo. 40 (2): 104-112, fig 1(a-b), 2(a-h), 3 map [key to allied species, p.109]

tibetica Mamontov & J. J. Atwood 2021 2531

Subgenus: Trachycolea Trachycolea

Typus: China. Tibet (Xizang): Nyingchi City, Bomê County, Tongmai 10 May 1980, K.-C. Chang & J.-Y. Feng 15109 holotype, MO-4441058!; isotype MHA!)

Basionym:

Distribution: China (Xizang)

spec nov	Atwwod & Mamontov	2021	6035	Novon 29(1): 305-310 , fig 1(a-l) (China)

tixieri S.Hatt. 1976 634

Subgenus: Mammillosae

Typus: New Caledonia. Mt. Do, 900m 15.4.1975, Mac Kee 30-112 in hb NICH [holotypus], in hb V. TIXIER [paratypus]

Basionym:

Distribution: New Caledonia

spec nov	Hattori	1976	728	J Jap Bot 51 (7): 193-198, fig 1(a-j), 2(a-d)
	Hattori	1977	479	J Hatt Bot Lab 43: 436-437, fig 3(a-e) [New Caledonia]
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 140
	Hattori	1984	503	J Hatt Bot Lab 57: 423
	Hattori	1986	506	J Hatt Bot Lab 60: 226
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. New Caledonia, Mt. Do. 900 m. 15 Apr. 1975. Mc Kee 30-112 (NICH 432542).

tjibodensis S.Hatt. & Thaithong 1977 635

Subgenus: Trachycolea Australes

Typus: Indonesia. Java. Tjibodas, Montain Garden, 1425m "Java, west Java. Tjibodas, Mt. Gedeh, Mt. Garden. + F.meyeriana Lindenb. + F.apiculata (Reinw. et al.) Dum. On bark of Eucalyptus" 28/2/1953, W. Meijer B3695

in hb L L0060947 [holotypus]
in hb L L0060948 (28/2/1953, W. Meijer B3733 - Mt. Gedeh, Mt. Garden. + F.reflexistipula Lac. + F.ornithocephal (Reinw. et al.) Nees) [paratypus]
in hb NICH

Basionym:

Distribution: Indonesia (Java)

spec nov	Hattori & Thaithong	1977	126	J Jap Bot 52 (10): 289-292, fig 1(a-s)
	Crosby & Engel	2006	2892	Index of Hepatics: 140
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. West Java, Tjibodas, Mt. Gedeh, Mt. Garden. 1425 m. On bark of Eucalyptus. 28 Feb. 1953. W. Meijer 83695 (NICH 353909).
	Gradstein	2011	3250	Guide to the Liverworts and Hornworts of Java: 80-81 [F. tjibodensis differs from F. campanulata only by the rough perianth]

togashiana S.Hatt. 1975 636

Subgenus: Trachycolea

Typus: Malaysia. Malay Pen. Cameron Highlands, 6000ft 30.1.1962, M. Togashi 66g

in hb NICH 232880 [holotypus], in hb TNS [isotypus]

Basionym:

Distribution: Malaysia (Pahang)

	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 118-119, fig 4
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. Malaya, Cameron Highland. 6000 ft. On tree. 30 Jan. 1962. M. Togashi 66-g (NICH 232880).

tongariroense Colenso 1889 637

Subgenus: Incertae sedis

Typus: New Zealand. County of East Taupo, Mt. Tongariro 1887, H. Hill

Basionym:

Distribution: New Zealand

spec nov	Colenso	1889	636	Trans Proc New Zealand Inst 21: 73-74
	Bonner	1965	655	Index Hepat 5: 452
	Hamlin	1972	659	Rec Dominion Mus 7(19): 263 [New Zealand]

toropuku von Konrat, de Lange & Larraín 2013 2461

Subgenus: Microfrullania

Typus: NEW ZEALAND, northH isLand, Te Paki Ecological Region and District, Te Paki, North Cape ScientificReserve, “Badlands Area”, 180 m., 34°24″2′S, 173°1″16′E 19 Oct. 2009, P. J. de Lange 8038

Holotype: AK; isotype: F

Basionym:

Distribution:

spec nov	von Konrat et alii	2013	3870	Polish Botanical Journal 58(2): xx-xx [Fr.toropuku, key to sgen Microfrullania]

trianae Gottsche 1864 638

Subgenus: Meteoriopsis Intumescentes

Typus: Colombia sd, Triana

in hb C. MÜLLER, Hal.

Basionym:

Distribution: Colombia

spec nov	Gottsche	1864	478	Ann Sci Nat Bot, ser 5, 1: 173
	Stephani	1911	686	Spec Hepat 4: 523
	Bonner	1965	655	Index Hepat 5: 453
	Gradstein & Hekking	1979	483	J Hatt Bot Lab 45: 114 [Cat Colombia]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 38 [Catalogue Colombia]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I. [dubious species]

tricarinata Sande Lac. 1856 639

Subgenus: Caulisequa

Typus: Indonesia. Java sd, v. d. Bosch
in hb L (Herb Lugd Bat No 910, 291-165), hb v d BOSCH
Basionym:

Distribution: Malaysia (Sabah), Borneo, Indonesia (Java, Bali)

Sande Lacoste in Dozy	1856	564	Plagiochila sandei Dozy: 10
Sande Lacoste	1856	2039	Nederl Kruidk Arch 4: 94
Sande Lacoste	1857	430	Verh Konikl Akad Wetenschappen 5: 88-89, pl 18(1-10)
Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 227
Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 347
Stephani	1911	686	Spec Hepat 4: 653
Verdoorn	1929	246	Ann Bryol 2: 158
Verdoorn	1930	293	Ann Bryol Suppl 1: 128-129, fig 200-203
Bonner	1965	655	Index Hepat 5: 453
Hattori	1973	540	J Hatt Bot Lab 37: 64-65, fig 28(a-p)
Kamimura	1974	3692	Bull Kochi Gakuen J Coll 5: 83 [new to Borneo, Mt. Kinabalu]
Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-86, microfiche 49 fig 3333 ["Java, Original"]
Hegewald & van Zanten	1986	508	J Hatt Bot Lab 60: 268 [Bali; orth error = "tricapinata S.L."]
Söderström et al	2016	4175	Phytokeys 59: 272 [possibly conspecific with Fr hypoleuca)
Haerida	2017	5803	Gardens' Bulletin Singapore 69(1): 83 [Indonesia (Bali)]
Winter & Schäfer-Verwimp	2020	5742	Frahmia 19: 19 [sgen. Diastaloba, key]

trichodes Mitt. 1862 640

Subgenus: Frullania

Typus: Fiji "Viti Isles" sd, B.C. Seemann 846pp "ad ramos Meteorii setigeri"

in hb NY 1048739 (hb W. MITTEN, with drawing - sd, B. . Seemann sn) [holotypus]

Basionym:

Distribution: China (Guangdong, Hainan, Yunnan, Hong Kong), Taiwan, S Japan, Burma, Thailand, Vietnam, Malaysia (Kedah, Penang, Pahang, Johor, Sarawak, Sabah), Borneo, Indonesia (Sumatra, Java), New Guinea, Philippines, Solomon Isl, Fiji (?Viti Levu)

spec nov	Mitten	1862	573	Bonplandia 10 (2): 19 [Fiji]
	Mitten in Seemann	1871	637	Flora Vitiensis: 417 [Fiji]
	Stephani	1911	686	Spec Hepat 4: 558
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 169
	Verdoorn	1934	241	Ann Bryol Suppl 4: 205-206 [Es handelt sich um eine zarte Frull. apiculata, das weibl. Involucrum ist nicht vollkommen ganzrandig]
	Bonner	1965	655	Index Hepat 5: 453
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 140
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 162-163 [China, synonmyme: ethii, tenuicaulis, picta]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 119-120 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 36, fig 2 [altitudinal range]
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Hattori	1988	516	J Hatt Bot Lab 65: 450 [PNG; Meteoriopsis]
	Kuo & Chiang	1988	948	Taiwania 33: 14 [Index of Taiwan]
	Li, Liao & Huang	1988	1220	Chenia 5: 157 [China, Guangdong Prov.]
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	Yamaguchi, Nakagoshi, Nehira & Iwatsuki	1990	923	Hikobia 10 (4): 406 [Japan, in mangrove forests]
	Frahm et al	1990	79	Mosses and liverworts of Mt. Kinabalu: 81
	Chao & Lin	1991	458	Yushania 8: 17 [Taiwan]
	Lin, Piippo, Koponen & Wu	1992	274	Bryobrothera 1: 210 [China: Hainan Isl]
	Chao & Lin	1992	460	Yushania 9: 212, fig 20(a-h) [Taiwan]
	Mizutani & Furuki	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Lin, Li, Wu & Li	1994	1230	Chenia 2: 68 [China, Hainan]
	So & Zhu	1996	295	Trop Bryol 12: 13 [Hong Kong]
	Zhu & So	1996	692	Mosses & Liverw Hongkong 2: 76, 3 fotos, fig(a-d)
	Lin & Chen	1997	1130	Biol Bull 75: 116, fig 24(a-d) [Taiwan, key to species, in Taiwanese]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 & 152 [checklist of Yunnan, China]
	Yuzawa	2000	1659	Natural Environmental Sci Res 13: 21-24, fig 17(a-o) [Japan, keys to species; in Japanese]
	Lin	2000	1524	Liverwort Flora Taiwan: 177, fig 178(1-3) "richodes" [Taiwan]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 280, pl 162(6) [with key to Japan, in Japanese]
	Bai	2001	1742	Guizhou Science 19(4): 51 [China, Yunnan]
	Zhang	2001	3253	Theses: 214 [Hong Kong]
	Bai	2002	1189	Chenia 7: 23-24 [Yunnan, China]
	Zhang	2003	1505	Memoirs Hong Kong Nat Hist Soc 26: 84 [Hong Kong]
	But	2004	1347	Checklist of Hong Kong
	Lin	2004	1740	CD-Rom with Mosses of Taiwan
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 33 [Catalog of Japan]
	Lai et al	2008	1607	Ann. Bot. Fennici 45;: [Thailand]
	Wu	2009	718	Hepatic Flora of Hong Kong: 70, 76 [with key]
	Södersröm et al	2010	2314	Phytotaxa 9: 76 [Java], checklist
	Söderstöm et al	2011	3251	Telopea 13 (3): 417 [Fiji]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: 375 [Checklist Taiwan]
	Uribe-M.	2011	2767	Caldasia 33(1): 74-76, fig 3(g-n) from type of Fr tenuicaulis, synonyms, [type study, belongs to sg Thyopsiella = Frullania]
	Gradstein	2011	3639	79-80 [Indonesia (Java), keys]
	Chuah-Petiot	2011	3242	Polish Botanical Journal 56(1): 8 [Malaysia]
	Katagiri & Furuki	2012	5253	Bryological Research 10 (7): 197 [Japan]
	Jia & He	2013	4906	Species Catalogue of China: 381
	Pocs et al	2014	4136	Polish Botanical Journal 59(2): 218, foto fig 1a,c [Malaysia]
	Long & Rubasinghe	2014	3994	Ceylon Journal of Science 43(1): 4[Sri Lanka]

Ragsa etal	2016	4292	Der Pharmacia Lettre 8(5): 76 -78 [Chemical investigation of the dichloromethane extract of Frullania trichodes Mitt.led to the isolation of atranorin]
Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 30-32, fig 10(a-j) [checklist & revision of genus Fullania, Thailand]
Shu et alii	2017	4733	Cryptogamie, Bryologie 38 (4): 434 [Vietnam]
NN	2018	4904	Classification and Codes of Chinese Plants: 23 [A057001088]
Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]
Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike:: 35 , photo fig 19(a-f) [Sumatra Utara, with key]
Lukitasari	2018	6020	MENGENAL TUMBUHAN LUMUT (Bryophyta): 203 [Indonesia]
Sukkharak	2018	6012	Nova Hedwigia 106(1-2): 144- 146, fig 10(a-j) [Thailand]
Nadhifah et al	2021	6161	PhytoKeys 88: 11 [ndonesia (Lesser Sunda Islands), East Timor]
Lee et al	2022	6217	PhytoKeys 199: 51 [Malaysia]

trigona L.Clark, Jovet-Ast & Frye 1947 651

Subgenus: Frullania Microphyllae

Typus: West Indies, Guadeloupe, at Trace Hugues 25.4.1936, Pierre & Valia Allorge sn in hb PC PC0102211 & PC0102212 [isotypus]

Basionym:

Distribution: Guadeloupe, Guyana

Clark, Jovet-Ast & Frye	1947	318	Bryologist 50: 52-55, fig 1-15
Clark & Svihla	1948	325	Bryologist 51: 27 [key to Fr. of Middle America: Guadeloupe]
Bonner	1965	655	Index Hepat 5: 454
Lavocat Bernard & Schäfer-Verwimp	2011	3130	Cryptogamie, Bryologie 32(3): 243 [Guadeloupe]
Gradstein, Bernard	2020	5728	Cryptogamie, Bryologie 41 (15): 205-214 [Lectotypification, Guadeloupe]
Gradstein & Ilkiu-Borges	2021	6033	Phytotaxa 525 (1): 26-36 [Mount Roraima, Guyana]

trinervis (Lehm.) Drège 1843 222

Subgenus: Chonanthelia Pluricarinatae

Basionym: Jungermannia trinervis Lehm. & Lindenb. 1835

Distribution: Angola, Bioko, Cental African Republic, Congo, Ethiopia, Ghana, Guinea, Kenya, Malawi, Mozambique, Nigeria, Sierra Leone, Tanzania, Uganda, Zambia, Zimbabwe, Socotra, Seychelles (Mahé Isl, Praslin Isl), Madagascar, South Africa (Natal), Lesotho, Saudi Arabia, Yemen Rep

Drège	1843	255	Flora 26 (besond. Beilage): 186
Lehmann & Lindenberg in G., L. & N.	1845	2850	Syn Hepat: 427-428 (No 36)
Stephani	1891	209	Hedwigia 30 (6): 267 [Kilimandscharo-Gebiet]
Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 65 [Usagara-Usambara, Kilimandscharo, Südwestl Kapland]
Stephani	1901	883	Cat Afr Plants Welwitsch 2 (2): 316 [Angola]
Stephani	1910	686	Spec Hepat 4: 325
Sim	1926	252	Trans Roy Soc S Africa 15: 41, figs [South Africa]
Arnell	1963	822	Hepat S Africa: 141-143, fig 102(a-i)
Bonner	1965	655	Index Hepat 5: 454
Vanden Berghen	1972	249	Expl Hydrobiol Bassin Bangweolo et Luapula 8 (1): 76-79, fig 30(a-t) [Zambia, Zaire]
Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 370 [map of Africa]
Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 198-206, fig. 49
Vanden Berghen	1978	1065	Bull Jard Bot Nat Belg 48: 369 [Zaire]
Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East Africa; Zimbabwe, Lesotho]
Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 212, 213 [key to Madagascar]
Jones & Harrington	1983	251	Bull Brit Mus nat Hist (Bot) 11 (3): 252 [Sierra Leone, Ghana]
Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 15ab, microfiche 46 fig 3085-3087 ["cap Eckloni Zeyher - Capat bonae spei Drege legit"]
Long	1987	1052	Nova Hedwigia 45 (1-2): 190 [Saudi Arabia] [afromontan taxon]
Frey & Kürschner	1988	1119	Nova Hedwigia 46 (1-2): 77 [Arabian Peninsula & Socotra]
Best	1990	879	Kirkia 13 (2): 296 [Zimbabwe]
Frey & Kürschner	1991	1033	Bryophyt Bibl 39: 31 [Saudi Arabia]
Yuzawa	1991	525	J Hatt Bot Lab 70: 228-231, fig. 25, map 3 b(:282)
Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Zaire]
O'Shea	1993	985	J Bryol 17: 648 [Malawi]
Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Seychelles Islands (Mahé Isl, Praslin Isl)]
Grolle	1995	250	Bryophyt Bibl 48: 69 [afr3]
Pérez & Sánchez	1996	297	Trop Bryol 12: 48 [Bioco]
Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 93 [Catalogue ... of Sub-Saharan Africa]
Dilg & Frahm	1997	645	Trop Bryol 13: 38 [South Africa, Drakensberge]
Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
Hodgetts, Matcham & Duckett	1999	754	J Bryol 21: 142 [Lesotho, Natal]
Pocs & Lye	1999	724	Trop Bryol 17: 30 [Uganda]
Kürschner	2000	737	Bryophyt Bibl 55: 38 [Saudi Arabia], map 46
Hodgetts (Gulf of Guinea conservation group)	2000	784	http://www.ggcg.st/botany/liverworts1.htm [Guinea Islands: Bioko]
Kürschner	2000	1197	Nova Hedwigia 71(3-4): 505, fig 2(map) [Socotra]
O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 6 [Mulanje Mt, Malawi]
Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Sierra Leone, Socotra, Tanzania, Togo, Uganda, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Angola, Bioko, Central African Rep, Congo, Ethiopia, Ghana, Guinea, Kenya, Lesotho, Mauritius, Madagascar, Malawi, Mozambique, Nigeria, South Africa, Seychelles] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
Kürscher	2003	1099	Willdenowia 33: 454 [checklist of Socotra]
Chuah-Petiot	2003	1124	Mosses, liverworts & hornworts of Kenya: 206, fig 269(a-i) [Kenya; key to species]
Chuah-Petiot & Pocs	2003	1082	Acta Bot Hungarica 45 (1-2): 57 [Aberdare Mts., Kenya]
Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
Manyanga & Perold	2004	1301	SABONET Report 21: 4 [Zimbabwe]

	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Sierra Leone, Socotra, Tanzania, Togo, Uganda, DR Congo, Zambia, Zimbabwe] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Angola, Bioko, Central African Rep, Congo, Ethiopia, Ghana, Guinea, Kenya, Lesotho, Mauritius, Madagascar, Malawi, Mozambique, Nigeria, South Africa, Seychelles] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 227-229, fig 149(A-V) [West Africa]

triquetra Lindenb. & Gottsche 1847 652

Subgenus: Meteoriopsis Intumescentes

Typus: Mexico. Oaxaca, Chinantla Distr -.5.-, Liebmann

in hb C [hb LIEBMANN 453], typus in hb S (B24318, 24319)
in hb GLM (hb LEHMANN 53) 05956

Basionym:

Distribution: Mexico, Guatemala, Peru, Bolivia, Brazil

spec nov	Lindenberg & Gottsche in G., L. & N.	1847	2848	Syn Hepat: 780-781
	Gottsche	1863	103	Separata of Mex. Leverm.: 244
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 340-341 [Mexico]
	Stephani	1911	686	Spec Hepat 4: 509-510
	Stephani	1916	222	Biblioth Bot 87: 244 [Bolivia]
	Bonner	1965	655	Index Hepat 5: 455
	Stotler	1969	4761	Nova Hedwigia 18: 457-458, pl 21(182-190)
	Stotler	1970	194	The genus Frullania, separata: 457-458, pl 21(182-190)
	Cole	1983	1407	Brenesia 21: 154 [Central America]
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Yano	1984	501	J Hatt Bot Lab 56: 507 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 98, microfiche 58 fig 4019 ["Mexico, Tianguistengo, Leg Ed de Hildago,, ex Herbario Général Paris 1891"] - 4020 ["Mexico, Liebmann No 453"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 46 [Mexico]
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]

truncata Caspary 1887 2235

Subgenus:

Typus: Fossil. Inclusion in Amber, Eocene

Basionym:

Distribution: Fossil (Eocene) in Baltic & Bitterfeld amber, Germany

spec nov	Caspary	1887	977	Schriften phys-ökonom Gesell Königsberg 27: 4, pl 1 fig 16
	Caspary & Klebs	1907	622	Abh königl Preuß Geol Landesanstalt, NF 4: 31-34, Atlas fig 25-29
	Grolle	1985	621	Prace Muz Ziemi z 37: 90-92, fig 2(c-d), pl 2
	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 28-29, pl. 6(f-g)

truncatistyla von Konrat, Hentschel, Heinrichs & Braggins 2011 2435

Subgenus: Microfrullania Amphijubula

Typus: NEW ZEALAND. NORTH ISLAND: Coromandel State Forest Park, summit of Table Mountain. On bark of Dacrydium cupressinum. 37°3'S., 175°40'E. 835 m. 14.2.1997, von Konrat 97/132

in hb AK [holotypus]
in hb CHR [isotypus]
in hb F [isotypus]

Basionym:

Distribution: New Zealand

spec nov	Konrat, Hentschel, Heinrichs & Braggins	2011	2580	Bryologist 114(1): 63-65, fig 3(A-K) [revision of Frullania, sg Microfrullania, sect nov Amphijubula]

tubercularis S.Hatt. & P.J.Lin 1985 661

Subgenus: Trachycolea

Typus: China. Shanxi Prov, Zhenling Mts, s slope, 2300m 25.7.1962, Chen 465
in hb NICH [holotypus], "isotypus in NW institut of Botany"

Basionym:

Distribution: China (Yunnan, Shaanxi)

	Hattori & Lin	1985	136	J Jap Bot 60 (4): 107-110, fig 2
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 146 [China]
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	Furuki & Higuchi	1997	1234	Bull Natn Sci Mis, Tokyo, ser B 23(3): 89-90, pl 8(4) [oil bodies & oil droplets]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 392-393 [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 127, fig. 50(9-14)
	Bai	2001	1742	Guizhou Science 19(4): 45 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 19 [Yunnan, China]
	NN	2004	1399	Red List of Chinese Endangered Bryophytes
	Cao, Zhu, Tan, Guo, Gao, Wu & Li	2006	1414	J Hatt Bot Lab 99: 286 [Red list of Chinese endangered bryophytes]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. China, Shanxi Prov., Mt Zhenling. 2300 m. On rock cliff. 25 July 1962. P. C. Chen 465 (NICH 432034).

tunguraguana L.Clark & Frye 1952 143

Subgenus: Chonanthelia Cladocarpicae

Basionym: Frullania brachyclada Spruce 1884 [hom illeg] [non Taylor ex Lehm. 1844]

Distribution: Anden of Colombia, Ecuador, Bolivia, Argentina

nom nov	Clark & Frye	1952	343	Bryologist 55: 133-136, fig. 1-13
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 84 [as syn of arecae () GOTT.] [Brazil]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 278, fig. 50 (from type), map 4(c)(: 283)
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 38 [Catalogue Colombia]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 374 [Colombia; synopsis of Frullaniacae & keys]
	Schäfer-Verwimp et alii	2013	3799	Phytotaxa 128 81): 24 [Ecuador]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.
	Atwood, Espinoza-Prieto & Gradstein	2018	5013	Bry. Div. Evo. 40 (2): 68-78 [Key to Frull sect. Cladocarpicae, p. 75)
	Gradstein	2021	5642	Mem NY Bot Gard 121: 382 [key -Ecuador, Colombia]

turfosa Lindenb. & Gottsche 1847 658

Subgenus: Incertae sedis

Typus: Mexico. Veracruz, Hacienda de Mirador, 3000m sd, Liebmann
;

Basionym:

Distribution: Mexico

spec nov	Lindenberg & Gottsche in G., L. & N.	1847	2848	Syn Hepat: 779
	Gottsche	1863	103	Separata of Mex. Leverm.: 243
	Gottsche	1867	104	K Danske Vid Selks Skrifter, ser 5, 6: 339-340 [Mexico]
	Stephani	1911	686	Spec Hepat 4: 635
	Bonner	1965	655	Index Hepat 5: 457
	Stephani	1985	928	Stephani Icon Hepat Inedit [Diastaloba] B-35, microfiche 48 fig 3270 ["Hepat Exot No 1515, inter Fr. cylindrium Mexico leg Leibold, ex Herb Rabenhorst, com Dr. GWinter1883"] - 3271 ["Mirador - Mexico"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 46-47 [Mexico]

tuyamae S.Hatt. & Thaithong 1978 657

Subgenus: Trachycolea Australes

Basionym:

Distribution: India (North: Manipur (Ukhrul)), Laos

spec nov	Hattori & Thaithong	1978	128	J Jap Bot 53 (6): 175-177, fig 2
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya] - new record from India (Hattori 1975)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 183
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. Laos, Phongsavanh. 1000 m. 3 Jan. 1958. T Tuyama 10 (NICH 432933).

ucrainica Konstantinova & Ignatov 2012 2454

Subgenus:

Typus: Klesov. Ukreine

SIZK-K-6581 [holotype]
[syninclusions: 4 workers of Dolichoderus sp. (Formicidae) (K-6580), Collembola, Entomobryomorpha (K-6581)].

Basionym:

Distribution: Fossil (Late Eocene) in Rovno amber, Ukraine

	Konstantonova et alii	2012	3447	fig 11-14[Rovno amber. Late Eocene, Ukraine]

udarii V.Nath & Ajit P.Singh 2006 2362

Subgenus: Incertae sedis

Typus: India. Megalaya, 765-1411m

in hb LWG 208067A [holotypus], in hb LWG 208008A, 208070A, 208724C, 208726C, 208727A [paratypus]

Basionym:

Distribution: India (Andhra Pradesh, Megalaya), Sri Lanka

	Singh	2002	4886	Studies on Liverworts (Bryophyta) of Khasi and Jaintia Hills: Meghalaya. 268-271, pl 54(1-18), map 11 - Unpublished thesis.
	Crosby & Magill	2006	1429	Index of Bryophytes: 3 [was not effectively published]
spec nov	Nath & Singh	2006	1417	Current Science 91 (6): 744-746 [Megalaya, India]
	Singh, Kumar & Nath	2008	1281	Taiwania 53 (1): 71-73, fig 1[map], 8(1-23) [India, Meghalaya, Eastern Himalayas]
	von Konrat	2010	3458	Cryptogamie, Bryologie 31: 12 [Index of Liverworts & Hornworts 2006-2008]
	Sowghandika	2010	4313	Bryophytes in Visakhapatam district in Andra Pradesh: 51, fig 18(a-g), pl 5(a-i) [Tesis - Sri Krishnadevaraya University, Anantapur]
	Dandotiya et al.	2011	2607	Archive for Bryology 88: 101 [Checklist India - F. udarii sp. nov, , East Khasi hills, (Shillong), Meghalaya]
	Sandhy et al.	2014	4563	Bryophytes of Andra Pradesh: 91-93, fig 29(a-g) [India]
	Sing, Singh, Singh	2016	4561	Liverworts and hornworts of India - An Annotated checklist 15, 96 (Andhra Pradesh, Megalaya) [BOTANICAL SURVEY OF INDIA]:
	Bandaranayake et al	2020	5821	J.Natn.Sci.Foundation Sri Lanka 48(2): 194-195, fig. 9(a-f) , 10(a-h) [Sri Lanka]
	Majumdar & Dey	2020	5860	Handbook of Bryophytes ... type specimens of liverworts and hornworts in Indian herbaria [India]: 141 [holotype, paratypes] [BOTANICAL SURVEY OF INDIA]:

uleana Steph. 1894 352

Subgenus: Meteoriopsis Intumescentes

Typus: Brazil: Brasilia, Sao Francisco, Joinville "ad arbores rivululi Caxreira" -.6.1883, Ule 142

in hb G 20626 [holotypus]

Basionym:

Distribution: Mexico, Panama, Cuba, Haiti, Martinique, Guadeloupe, Venezuela, Trinidad, Galapagos Isls [Ecuador], Guyana, Surinam, Brazil

spec nov	Stephani	1894	228	Hedwigia 33: 155
	Stephani	1911	686	Spec Hepat 4: 596
	Herzog	1942	874	Beih Bot Centralbl 61 B: 577 [Brasilia]
	Schiffner & Arnell	1964	198	Österr Akad Wiss, Math Nat Kl, Denkschr 111: 89 [Brazil]
	Bonner	1965	655	Index Hepat 5: 458 [Brazil]
	Yano	1984	501	J Hatt Bot Lab 56: 507 [checklist Brazil]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-41, microfiche 55 fig 3828 ["Joinville, Ule Juni 83"] - 3829
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 83 [Brazil] [Frullania breuteliana Gottsche (syn. ? Frullania uleana Steph.),]
- syn nov	Uribe & Gradstein	2003	1071	Crypt Bryol 24 (3): 204 [syn sub Fr involuta 1911]
	Uribe	2008	1513	Caldasia 30(1): 91, [= Fr involuta , transferidas al subgénero Thyopsiella] [Monography of subgenus Meteoriopsis]
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [as valid species, Brazil; catalog]
	Gradstein	2021	5642	p. 382 [Fr. uleana as older name for Fr. involuta; Galapagos Isl.] misidentified.

umbonata Mitt. 1911 16

Subgenus: Homotropantha Homotropantha

Typus: Pacific Isles 1888, s. coll sn.

ex hb DAVIS, in hb G 18258

Basionym:

Distribution: New Guinea (Irian Jaya), Indonesia, Solomon Isl (Guadalcanal),

spec nov	Mitten in Stephani	1911	686	Spec Hepat 4: 579-580
	Verdoorn	1928	242	Rev Bryol NS 1: 120 [dubious species]
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 175
	Bonner	1965	655	Index Hepat 5: 458
	Hattori	1980	490	J Hatt Bot Lab 47: 200-204, fig. 2(a-e), 21-23
	Hattori	1982	495	J Hatt Bot Lab 51: 241
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 140
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-12, microfiche 54 fig 3719 ["Insulas pacificae, ex Herb Davis, 1888"] - 3720
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 41

usambarana Schiffn. 1894 355

Subgenus: Diastaloba Diastaloba III

Typus: Tanzania: Usambara, Derema, 900 m sd, F. Fischer 49
[hb Mus Berol], ex hb B, in hb G

Basionym:

Distribution: Tanzania, Madagascar, Reunion

spec nov	Schiffner in Stephani	1894	228	Hedwigia 33: 160-161
	Stephani	1895	212	Bot Jahrb 20 (3): 316 [sp. nov] [Usambara]
	Stephani in Engler	1895	1481	Die Pflanzenwelt Ost-Afrikas 2 (C): 65 [Usambara, 900-1800m - Gebirgsbuschwald, Hochwald]
	Stephani	1911	686	Spec Hepat 4: 488
	Bonner	1965	655	Index Hepat 5: 459-460
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 351 [map of Africa]
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 88-92, fig 22
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 209 [key to Madagascar] & 219
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 30, microfiche 57 fig 3912 [Usambara, leg F. Fischer No 49"]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar, Reunion Isl]
	Grolle	1995	250	Bryophyt Bibl 48: 69 [afr3]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 93 [Catalogue ... of Sub-Saharan Africa]
	Pocs	1998	1425	J East Afrikan Nat Hist 87: 6 [as "Lemurian" species]
	Pocs	1999	1213	Bryobrothera 5: 241 ["Lemurian" species from Usambara Mts & Uluguru Mts]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Madagascar, Reunion, Tanzania] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Madagascar, Reunion, Tanzania] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 234(9-14) [key in Chinese]

usambarana var. reducta Vanden Berghen 1976 356

Subgenus: Diastaloba Diastaloba III

Typus: La Reunion, 860 m 12.1.1974, Onraedt 74 R 8072
in hb ONRAEDT [holotypus]

Basionym:

Distribution: Tanzania, Madagascar, Reunion

var nov	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 89-92
	Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [East Africa; Tanzania]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 209 [key to Madagascar] & 219, fig. 3a
	Grolle	1995	250	Bryophyt Bibl 48: 69 [afr3]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Madagascar, Reunion] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Madagascar, Reunion] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]

usamiensis Steph. 1897 357

Subgenus: Trachycolea

Typus: Japan [Japonia]. Shizuoka Pref., Prov. Izu, Usami 20.2.1895, Faurie 15268

ex hb PC, in hb G; in hb KYO, hbTNS [isotypus]
in hb HIRO (Japan. Honshu, Prov. Idu, Usami, II 1895, U. Faurie 15268 [Isotypus]. - Usami in Idzu, Feb. 1895, U. Faurie 15268 [Isotypus?].)

Basionym:

Distribution: China (Liaoning), Korea (South), Japan

spec nov	Stephani	1897	213	Bull Herb Boissier 5: 79 & 91-92 [spec nov; Japan]
	Sawada	1909	930	Bot Mag Tokyo 23 (no 268): 178-183, fig 24 [key to Japanese species, in Japanese]
	Stephani	1910	686	Spec Hepat 4: 351-352 [nom superfl; as Chonanthelia]
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Hattori	1943	1467	J Jap Bot 19: 353-355, fig. 28(a-g)
	Hattori	1944	943	Bull Tokyo Sci Mus 11: 153 [Japan, key to Japanese species]
	Hattori	1951	528	J Hatt Bot Lab 5: 67
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 132
	Tatuno	1952	1697	J Sci Hiroshima Univ ser B, div 2 (Bot), 6(2): 51-57 [sex chromosomes]
	Hattori	1952	529	J Hatt Bot Lab 8: 31
	Hattori & Noguchi	1960	965	Index spec Typ herb Japon, Bryophyta: 18 [isotype]
	Kamimura	1961	199	J Hatt Bot Lab 24: [aus 717]
	Hong & Yoo	1961		Hikobia 2: <244-252> [aus 717]
	Kamimura	1961	199	J Hatt Bot Lab 24: 43, fig 16(1-13), map 4
	Hong	1962		[aus 717]
	Hattori, Hong & Inoue	1962	876	J Hatt Bot Lab 25: 285 [Korea]
	Bonner	1965	655	Index Hepat 5: 460
	Hong	1966	1107	Bryologist 69 (1): 413 [South Korea]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 137 [Central Japan]
	Choe & Yamada	1974	405	Misc Bryol Lichen 6 (9): 161 [checklist Korea]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 735 [South Korea]
	Choe	1980	1171	Illust Fl & Fauna Korea 24: 735-736 [South Korea]
	Inoue	1981	963	Mem Natn Sci Mus Tokyo 14: 65 [Japan, Mt. Fuji]
	Yuzawa & Hattori	1981	494	J Hatt Bot Lab 50: 257 [Japan]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A-103, microfiche 48 fig 3217-3218 [from type; "Japan Faurie 15268"]
	Inoue	1987	1155	Index type specimens in Nat Sci Mus, Tokyo: 15
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Fu & Fang	1994	2472	Bulletin of Botanical Research 14 (3): 247-249, fig 1(1-7) [in China; Liaoning prov.]
	Yamada & Choe	1997	717	J Hatt Bot Lab 81: 288-289 [Korean Peninsula]
	Hong	1997	693	Lindbergia 22: 138 [Korea]
	N.N. [National Science Museum Tokyo]	2000	995	http://research.kahaku.go.jp/botany/koke/indexf.htm [in hb TNS]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 38-42, fig 34(a-m) [Japan, keys to species; in Japanese]
	Deguchi & Yamaguchi	2003	1137	Hikobia 14(1): 120 [Bryophytes of Asia, Fasc 10, #246]
	NN	2003	1397	Types of Nat Hist mus Hiroshima [http://www.digital-museum.hiroshima-u.ac.jp/~museum/types/pages/hepa/f/hirotypeHepaF.html]
	Hong	2003	1416	Lindbergia 28: 138 [identification key to taxa of Korean paninsula]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 33 [Catalog of Japan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

utriculata Steph. 1894 17

Subgenus: Homotropantha Homotropantha

Typus: Neu Guinea. Papua New Guinea: Morobe [Nova Guinea], Butaneng -.12.1887, Kärnbach 24 ex hb B, in hb G 17195 [holotypus]

Basionym:

Distribution: New Guinea, Solomon Isl (Guadalcanal), Vanuatu (Aneityum, Futuna), New Caledonia, Samoa (Savaii, Tutuila, Upolu), Micronesia [=Caroline Isl] (Ponape)

spec nov	Stephani	1894	228	Hedwigia 33: 152-153
	Schiffner & Stephani in Schumann & Lauterbach	1901	1493	Flora Deutsch Schutzgebiete: 79
	Paris	1910	1455	Rev Bryol 37 (6): 130 [New Caledonia: Mé Areinbo]
	Stephani	1911	686	Spec Hepat 4: 579
	Verdoorn	1928	242	Rev Bryol NS 1: 114-115, fig. 5
	Verdoorn	1930	549	Nova Guinea 14 (4): 547
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 175
	Verdoorn	1930	293	Ann Bryol Suppl 1: 168-169, fig. 269-270
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 63 [Netherl Neu Guinea]
	Verdoorn	1937	556	Blumea suppl 1: 213 [Samoa]
	Bonner	1965	655	Index Hepat 5: 460
	Hattori	1980	490	J Hatt Bot Lab 47: 183-187, fig. 2(f-i), 6(c), 10-12
	Hattori	1982	495	J Hatt Bot Lab 51: 241
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 140
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 24-25 [Cat. West Melanesia]
	Hattori & Streimann	1985	504	J Hatt Bot Lab 59: 120 [New Guinea]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Homotropantha] D-13, microfiche 54 fig 3721 ["N Guinea, Kärnbach 24, in Leucobryo repens"] - 3722
	Hattori	1986	506	J Hatt Bot Lab 60: 221-222 [New Caledonia]
	Hattori in Piippo	1986	946	Ann Bot Fennici 23: 10 [New Guinea]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 41
	Koike	1994	37	J Hatt Bot Lab 75: [Micronesia]
	Koike	1994	37	J Hatt Bot Lab 75: 191 [Micronesia]
	Konrat & Braggins	2001	781	Nova Hedwigia 72 (3/4): fig 6 [initial branching appendages]

vaga Mitt. 1871 360

Subgenus: Diastaloba Diastaloba I

Typus: Viti sd, Seemann

Basionym:

Distribution: Fiji (?Viti Levu)

spec nov	Mitten in Seemann	1871	637	Flora Vitiensis: 418
	Stephani	1911	686	Spec Hepat 4: 675
	Verdoorn	1930	551	Nederl Kruidk Arch Jrg 1930 (2): 165
	Bonner	1965	655	Index Hepat 5: 461
	Miller, Whittier & Whittier	1983	609	Prod Flora Hepat Polynesiae: 141

vaginata var. nigricans (Gottsche, Lindenb. & Nees) Schiffn. 1898 2496

Subgenus: Frullania

Basionym:

Distribution:

syn nov	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 347-348 [syn nov]
	Bonner	1965	655	Index Hepat 5: 461

vaginata (Sw.) Nees 1846 362

Subgenus: Frullania

Basionym: Jungermannia vaginata Sw. 1781

Distribution: Malaysia (Pahang), Indonesia (Sumatra, Java, Amboina)

	Dumortier	1835	256	Rec d´Obs Jungerm., Tournay, 1: 13
spec nov	Nees in G., L. & N.	1846	2849	Syn Hepat: 465 (No 120)
	Sande Lacoste	1856	430	Verh Konikl Akad Wetenschappen 5: 92
	Sande Lacoste	1864	842	Ann Mus Bot Lugduno-Batavi [ed Miquel] 1: 314 [Java, Sumatra, Saparoea]
	Sande Lacoste in Veth	1884	807	Midden Sumatra, Reizen en Onderzoekingen der Sumatra Expeditie, 4 (2): 44 [Sumatra]
	Schiffner	1893	572	Nova Acta K Leop-Carol Deutsch Akad Naturf Halle 60 (2): 227
	Schiffner	1898	831	Conspect Hepat Archip Indici, Batavia: 347-348
	Evans	1902	665	Proc American Acad Sci 38: 100 [Galapagos Isls: Floreana, Santiago ? "Ids. is considered doubtful by Schiffner", see Gradstein 2009]
	Stephani	1911	686	Spec Hepat 4: 612 [Borneo, New Guinea]
	Verdoorn	1929	245	Ann Bryol 2: 152 [Java]
	Verdoorn	1929	548	Ann Jard Bot Buitenzorg 40: 139
	Verdoorn	1930	293	Ann Bryol Suppl 1: 149-151, fig. 257-260 [sub sg Meteoriopsis, mostly on the basis of ist long stems] restricted to Sumatra and Java, and is absent of Borneo and New Guinea
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 90-92; Java]
	Verdoorn	1931	231	Ann Bryol 4: 140 [Hepat select crit, ser 2 no 90-92; Java]
	Verdoorn	1932	553	Bull Jard Bot Buitenzorg, ser 3, 12 (1): 63 [Java]
	Verdoorn	1934	241	Ann Bryol Suppl 4: 206 [Java, Sumatra]
	Bonner	1965	655	Index Hepat 5: 461
	Hattori	1975	65	Bull Natn Sci Mus Tokyo, ser B (Bot), 1 (3): 119, fig. 5
	Hattori	1975	547	J Hatt Bot Lab 39: 310-311
	Hattori	1976	67	Bull Natn Sci Mus Tokyo, ser B (Bot), 2 (1): 13-16, fig. 174-175 [restricted to Sumatra & Java , absent of Borneo and New Guinea.?, sub sg Thyopsiella]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 25 [Cat. West Melanesia]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Meteriopsis] E-65, microfiche 56 fig 3864 ["Java, Herb Un Lips"] - 3865
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 36
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Uribe	2006	1471	Crypt Bryol 27 (3): 311 [belongs to sgen Thyopsiella]
	Uribe	2008	1513	Caldasia 30(1): 91, [type was not available; excluded the species from subg. Meteoriopsis and did not assign it to subgenus by lack of study of the type]
	Uribe	2008	1513	Caldasia 30(1): 91, [type was not available] [Monography of subgenus Meteoriopsis]
	Gradstein	2009	2161	Bibliotheca Lichenologica 99: 158 [Galapagos Isl ??Floreana, Santiago, collected by Darwin (see EVANS 1902); occurrence of this Asiatic species in Galapagos is unlikely]
	Uribe-M.	2011	2767	Caldasia 33(1): 69, fig 1(a-f) [type study, belongs to sg Thyopsiella] "examination the holotype, I now confi rm that the species belongs to subg. Thyopsiella."
	Uribe-M.	2011	2767	Caldasia 33(1): 69, [Frullania vaginata Dumort., 1835, nom. Inval. (Art. 32.1 ICBN)]
	Hardianty	2018	5036	Frullaniaceae di Taman Wisata Alam Sicike-Cike: 36, photos [Sumatra, with key]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 383 [Galapagos, probably misidentified]

valdiviensis J.B.Jack & Steph. 1894 364

Subgenus: Trachycolea

Typus: Chile: Valdivia 1887/1888, H. Hahn sn hb JACK 257, in hb G

Basionym:

Distribution: Chile

spec nov	Jack & Stephani in Stephani	1894	228	Hedwigia 33: 149
	Stephani	1910	686	Spec Hepat 4: 427-428
	Reimers	1926	113	Hedwigia 66: 47 [Chile]
	Herzog	1938	723	Arch Esc Farm Fac Ci Med Cordoba 7: 28 [Chile: Valdivia] - vide Herzog 1944 = Fr quillotensis
	Herzog	1944	4664	Acta Horti Gothoburgensis 15: 160 "Statt F. valdiviensis Jack et St. muss es F. quillotensis Mont. heissen."
	Arnell	1956	881	Svensk Bot Tidskr 50 (2): 309 [Chile]
	Bonner	1965	655	Index Hepat 5: 461
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 99, microfiche 51 fig 3481 [from type; "Valdivia, Dr H Hahn, Jack 257"]

valida Steph. 1910 365

Subgenus: Trachycolea

Typus: Japan: Tosa, Mt. Yokagura 30.8.1903, S. Okamura 38

in hb G

Basionym:

Distribution: China (Zhejiang, Yunnan, Anhui, Guangdong, Guangxi, Shandong), Taiwan, Japan

spec nov	Stephani	1910	686	Spec Hepat 4: 402-403
	Iishiba	1912	888	Bot Mag Tokyo 26: 36 [Japan, with key in Japanese]
	Hattori	1952	529	J Hatt Bot Lab 8: 31
	Kamimura	1952	873	Contrib Fl Hepat Shikokuensem, Kochi: 133
	Hattori	1953	530	J Hatt Bot Lab 10: 39-40, fig. 51(a-q)
stat nov	Kamimura	1961	199	J Hatt Bot Lab 24: 35-36, fig 13(1-12), map 3
	Bonner	1965	655	Index Hepat 5: 462
	Iwatsuki & Mizutani	1972	966	Colour Illust Bryo Japan, Osaka: 331-332, fig 169 [714]
	Kodama	1972	1375	Spec Publ Osaka Mus Nat Hist 4: 138, fig 64(g-j) [Central Japan]
	Hu & Wang	1981		J East China Normal Univ (Nat Sci) 1981 (1): 85-104[aus 698] =Journal of East China Normal University(Natural Science) ISSN: 1000-5641
	Lin, Yang & Lu	1982	967	Trop Subtrop Forest Ecosys 1: 67 [China, Guangdong]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-256, microfiche 53 fig 3677 ["vor nishiyamensis St; Japonia, Tosa, leg O Kamura No 38"]
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	Wang & Tau	1992		[aus 698]
	Chao, Lin & Chan	1992	459	Yushania 9: 18-20, fig 7(a-g) [Taiwan, abies forest]
	Chao & Lin	1992	460	Yushania 9: 212, fig 21(a-j) [Taiwan]
	Wang	1993	1223	Chenia 1: 130 [south China, Guangxi Prov.]
	Yi, Liu & Lang	1994	1227	Chenia 2: 109 [China, Shandong Prov]
	Lin & Chen	1997	1130	Biol Bull 75: 117-118, fig 25(a-d) [Taiwan, key to species, in Taiwanese]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 152 [Yunnan, China]
	Zhu, So & Ye	1998	698	J Hatt Bot Lab 84: 167 [China; synopsis of Zhejiang]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 402, fig 201(9-14) [China, Yunnan]
	Lin	2000	1524	Liverwort Flora Taiwan: 178, fig 178(1-3) [Taiwan]
	Iwatsuki	2001	957	Mosses and Liverworts of Japan, Heibonsha (Tokyo): 282, pl 165(3) [with key to Japan, in Japanese]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 42-43, fig 35(a-n) [Japan, keys to species; in Japanese]
	Bai	2001	1742	Guizhou Science 19(4): 45 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 19 [Yunnan, China]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1108, fig 517(9-14) [China]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 33 [Catalog of Japan]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 237(9-14) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

valparaisiana Lehm. 1857 366

Subgenus: Incertae sedis

Typus: Chile: Valparaiso ?, filius Guilielmus

in hb S (B24326) [typus]

Basionym:

Distribution: Chile

spec nov	Lehmann	1857	896	Pugillus 10: 17-18
	Gottsche	1858	1511	Bot Zeitung (Berlin) 16 (Beilage): 27
	Stephani	1911	686	Spec Hepat 4: 675 ["valparaisana"]
	Bonner	1965	655	Index Hepat 5: 462
	Internet - Swedisch Musum of Nat Hist, Dep Crypt Bot	2002	782	http://www.nrm.se/cgi-bon/Sfgate [type collection in hb S]
	Hässel de Menéndez & Rubies	2009	2273	Nova Hedwigia Beihefte 134: 146 [Chile]

vanae Mamontov, J.J.Atwood, Perkovsky & Ignatov 2020 2509

Subgenus:

Typus: Ukraine. Rovno Province: Zarechnoje Distr., Kukhotskaya Volya (basin of the Veselukha River). Inclusion in Rovno amber. Eocene, Priabonian

holotype: SIZK (SIZK-K-10089F)

Basionym:

Distribution:

	Mamontov et al.	2020	5685	Bryologist 123(3): 424- [Inclusion in Rovno amber. Eocene]

vandenberghenii Pócs 1979 368

Subgenus: Diastaloba

Basionym: Frullania epiphylla Vanden Berghen 1976 [hom illeg] [non S.Hatt. 1974]

Distribution: Uganda, Madagascar

nom nov	Pocs in Bizot & Pocs	1979	791	Acta Bot Acad Sci Hung 25 (3/4): 229 [Fr. epiphylla VB 1976 is an illegitimate homonym of Fr. epiphylla HATT 1974]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 210, 211 [key to Madagascar] & 216-217, fig. 2
	Hattori	1982	495	J Hatt Bot Lab 51: 249, footnote ["vanden-berghenii HATT 1982" nom. nov.]
	Grolle	1995	250	Bryophyt Bibl 48: 70 [afr3]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar]
	Pocs	1997	1109	Abstracta Bot 21 (1): 127 [Madagascar]
	Hodgetts	1998	1014	http://www.nhm.ac.uk/hosted_sites/bbstbg/ugabook.htm [printed 11.12.03, 12 pages]: 6 [Uganda]
	Porley, O'Shea, Wigginton, Matcham, Hodgetts & Stevenson	1999	711	Trop Bryol 16: 184 [Uganda]
	Konrat & Braggins	1999	725	Trop Bryol 17: 106 [epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 105 [Madagascar; commonly epiphyllous]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Madagascar, uga] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Hodgetts	2004	1254	http://tring.naturalhistory.museum/hosted_sites/bbstbg/ugaheps.htm [printed 24.08.2004 13 pages]: 6 [Uganda]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Madagascar, uga] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]

vanden-berghenii S.Hatt. 1982 1954

Subgenus: Diastaloba

Basionym: Frullania epiphylla Vanden Berghen 1976 [hom illeg] [non S.Hatt. 1974]

Distribution:

nom nov	Hattori	1982	495	J Hatt Bot Lab 51: 249 (foot note)

van-zantenii Kamim. & S.Hatt. 1973 369

Subgenus: Diastaloba Diastaloba I

Typus: [New Guinea] Indonesia: West Irian, Jayawijaya, Antares Mts., 1300 m 1959, van Zanten 35

in hb NICH 234532 [holotypus]
in hb L [isotypus]

Basionym:

Distribution: New Guinea

spec nov	Kamimura & Hattori	1973	543	J Hatt Bot Lab 37: 528-530, fig. 9
	Hattori	1975	547	J Hatt Bot Lab 39: 311
	Hattori	1980	489	J Hatt Bot Lab 47: 114-116, fig. 233 [Fr. van-zantenii as Fr. serrata ssp. van-zantenii]
	Hattori	1982	495	J Hatt Bot Lab 51: 229, fig. 2 [Fr. serrata ssp. van-zantenii syn sub Fr. van-zantenii]
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 25 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 36, fig. 2
	Hattori	1988	516	J Hatt Bot Lab 65: 451 [New Guinea]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. New Guinea, Star Mts., Sibil-valley. 1300 m. At base of shrubs in swampy area. 22 Apr. 1959. B. 0. Van Zanten 35 (NICH 432547).

variabilis Steph. 1910 371

Subgenus: Trachycolea

Typus: Australia: NSW, Combewarra Mt 22.5.1903, W. W. Watts 628

in hb G 18231(ex hb LEVIER 4416) [typus]
in hb NSW

Basionym:

Distribution: Australia (NSW)

spec nov	Stephani	1910	686	Spec Hepat 4: 420-421
	Watts	1912	1940	unpublished Msc
	Bonner	1965	655	Index Hepat 5: 462-463
	Hattori	1979	486	J Hatt Bot Lab 46: 148-149, fig. 46(a-g) from type
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-224, microfiche 53 fig 3641 ["Australia, N.S.Wales, Watts 628, Levier 4416"]
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 37 & 145 [Australia: NSW]
	Brown, Ramsay & Seur	1992	1140	Telopea 5(1): 76 [types in hb NSW & hb SYD]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 46 [? sub Fr pycnantha]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia, ?? syn sub Fr pycnantha]

varians Caspary 1887 2237

Subgenus:

Typus: Fossil. Inclusion in Amber, Eocene

Basionym:

Distribution: Fossil (Eocene) in Baltic & Bitterfeld amber, Germany, Ukraine

spec nov	Caspary	1887	977	Schriften phys-ökonom Gesell Königsberg 27: 5, pl 1 fig 17-18
	Caspary & Klebs	1907	622	Abh königl Preuß Geol Landesanstalt, NF 4: 37-39, Atlas fig 31(a-c)
	Grolle	1985	621	Prace Muz Ziemi z 37: 94-96, fig 1(c-l), pl 6-6
	Grolle & Meister	2004	1321	Liverwort Baltic & Bitterfeld amber, Jena: 30-32, pl. 12(a-g)
	Konstantinova et alii	2012	3447	Arctoa 21: 267-269, fig 1-10
	Heinrich et alii	2012	3236	Fossil Record 15(2): 115-120 [sporophyte]
	Feldberg et al.	2021	5972	Bry Div Evo 43(1): 34, fig 6 D, E

variegata Steph. 1894 373

Subgenus: Trachycolea

Typus: Reunion Isl. Bourbon, "in cortice" sd, Rodriquez sn

ex hb RENAULD, in hb G 10715 [holotypus], 10717 [isotypus], 10718 and 10719 ?

Basionym:

Distribution: Burundi, Cameroon, Malawi, Rwanda, Tanzania, Madagascar, Reunion, South Africa, Society Isl (Bourbon)

spec nov	Stephani	1894	228	Hedwigia 33: 149-150
	Stephani	1910	686	Spec Hepat 4: 369
	Gerola	1947	1532	Lavori di botanica / Istituto Botanica dell'Università di Padova 12: 477, fig. 9 [Ethiopia]
	Cufodontis	1952	2562	Phyton 4 (1-3): 77 [Ethiopia]
	Bonner	1965	655	Index Hepat 5: 463
	Vanden Berghen	1976	185	Bull Jard Bot Nat Belg 46 (1/2): 128-131, fig. 32
	Vanden Berghen	1976	850	Distributiones plantarum africanarum 11: 358 [map of Africa]
	Vanden Berghen	1982	76	Crypt Bryol Lichen 3 (3): 210 [key to Madagascar] & 222, fig. 4(a-b)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 46, microfiche 50 fig 3401 [from type; "Bourbon, lg Rodriquez, publ 1894"]
	Fischer	1993	308	Trop Bryol 8: 44 [Checklist: Burundi]
	Fischer	1993	309	Trop Bryol 8: 95 [may be syn of Fr. obscurifolia]
	Tixier	1995	730	Trop Bryol 11: 18 [ephiphyllous in Zaire & Rwanda]
	Grolle	1995	250	Bryophyt Bibl 48: 70 [afr3]
	Pocs	1995	1368	Fragm Flor Geobot 40(1): 259 [Indian Ocean Islands: Madagascar]
	Wigginton & Grolle	1996	696	Bryophyt Bibl 50: 93-94 [Catalogue ... of Sub-Saharan Africa]
	Konrat & Braggins	1999	725	Trop Bryol 17: 105 [Rwanda at 2500m; epiphyllous]
	Konrat & Braggins	1999	725	Trop Bryol 17: 107 [epiphyllous]
	Wigginton	2001	982	http://www.nhm.ac.uk/hosted-Sites/bbstbg/malmoss.htm [Malawi]
	O'Shea, Wigginton, Bruggeman-Nannenga, Hodgetts & Porley	2001	1073	Trop Bryol 20: 6 [Mulanje Mt, Malawi]
	Wigginton	2002	1012	Trop Bryol Res Rep 2: 30 [Burundi, Cameroun, Mauritius, Madagascar, Malawi, Reunion, Rwanda, South Africa, Tanzania] [http://www.oshea.demon.co.uk/tbr/afrheps.pdf]
	Wigginton	2004	1312	Trop Bryol Res Rep 5: 32 [Burundi, Cameroun, Mauritius, Madagascar, Malawi, Reunion, Rwanda, South Africa, Tanzania] [http://www.oshea.demon.co.uk/tbr/tbrr5.pdf]
	Wigginton	2004	1172	Sript Bot Belg 30: 235-236, fig 156(A-P) [West Africa]
	Ah-Peng & Bardat	2005	1358	Tropical Bryology 26: 108 [Checklist of Reunion Isl]

venusta S.Hatt. 1974 376

Subgenus: Diastaloba Diastaloba I

Typus: Borneo 12.6.1963, Z. Iwatsuki 5261

in hb NICH 255261 [holotypus]

Basionym:

Distribution: Malaysia (Sabah), Borneo

spec nov	Hattori	1974	545	J Hatt Bot Lab 38: 217-219, fig 104(a-k)
	Hattori	1976	80	J Hatt Bot Lab 40: 503
	Menzel	1988	512	J Hatt Bot Lab 65: 165 [Cat Borneo]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. Borneo, East Coast, SW of Lahad Datu, ultarabasic area between mining camp and summit of Mt. Silam. 330-950 m. On tree trunk. 12 June 1963 . Z.Iwatsuki 5261 (NICH 255261).

verdoorniana S.Hatt. 1973 377

Subgenus: Diastaloba Diastaloba I

Typus: Neu Guinea. Papua New Guinea: Morobe, Wau District, Mt. Kaindi, 2200-2350 m 26-27.5.1967,R. M. Schuster 67-5710 [holotype]
in hb NICH [holotypus]
in hb JE, MASS [isotypus]

Basionym:

Distribution: New Guinea (Papua New Guinea, Irian Jaya), Indonesia, Solomon Isl

spec nov	Hattori	1973	542	J Hatt Bot Lab 37: 122-126, fig. 68 [from type]
	Hattori	1973	542	J Hatt Bot Lab 37: 151 [New Guinea]
	Hattori	1974	546	J Hatt Bot Lab 38: 272-273, fig. 139
	Hattori	1982	495	J Hatt Bot Lab 51: 230
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 25 [Cat. West Melanesia]
	Hattori & Piippo	1986	557	Acta Bot Fennica 133: 36
	Hattori	1988	516	J Hatt Bot Lab 65: 451 [PNG]
	Enroth	1991	524	J Hatt Bot Lab 70: 4-5, fig. 1[map]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. New Guinea, Wau Distr., Summit of Mt. Kaindi. 2200-2350 m. 26-28 May 1967. R. M. Schuster 67-5710 (NICH 314860).

victoriensis Steph. 1910 378

Subgenus: Trachycolea

Typus: Australia: Victoria, UpperOwens River 1882, Mac Cann 164
in hb G 18232

Basionym:

Distribution: Australia (QLD, NSW, VIC)

spec nov	Stephani	1910	686	Spec Hepat 4: 418
	Bonner	1965	655	Index Hepat 5: 464
	Hattori	1979	485	J Hatt Bot Lab 45: 359-361, fig. 26(a-h) from type
	Scott	1985	770	Australian flora fauna ser 2: 21 [key to VIC spec], 180 [VIC endemic]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-225, microfiche 53 fig 3642 ["Australia, Victoria, Upper Owens River, leg Mrs Mc Cann 1882, com Dr Karl Müllner 1884"] - 3643
	Scott & Bradshaw	1986	56	Brunnonia 8 (1): 37 & 145 [Australia: VIC]
	Hattori	1988	429	Nova Hedwigia Beih 90: 157 [Australia: QLD]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 48 [Australia (QLD, NSW, VIC)]
	Glenny, Meagher & Brown	2004	1126	NSW Liverworts [Australia, NSW] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	McCarthy	2006	1385	Checklist Australian Liverworts [Australia QLD NSW VIC]

virginica Gottsche 1844 598

Subgenus: Trachycolea Trachycolea

Typus: USA. Virginia sd, Beyrich

Basionym:

Distribution:

spec nov	Gottsche in Lehmann	1844	589	Pugillus 8: 19-20
	Gottsche in G., L. & N.	1845	2850	Syn Hepat: 419
	Sullivant	1846	764	Musci Alleghaniensis: 63 [syn sub Fr dilatata (auct. non NEES) SULLIVANT 1846]
	Gottsche	1858	1511	Bot Zeitung (Berlin) 16 (Beilage): 25
	Lehnert	1886	2089	Proceed Biol Soc Washington 3: 117 [Washington andd vicinity]
	Pearson	1890	1153	List of Canadian Hepaticae: 2
	Evans	1897	237	Trans Connet Acad Arts Sci 10 (1): 17-18, pl 8
	Macoun	1902	1150	Catalogue Canadian Plants, VII: 46 [Canada]
	Barbour	1902	2233	Bryologist 5(1): 5 [USA]
	Stephani	1910	686	Spec Hepat 4: 431 [syn sub Fr. eboracensis]
	Frye & Clark	1947	204	Univ Wash Publ Biol 6 (5): 771 [syn sub Fr eboracensis]
	Bonner	1965	655	Index Hepat 5: 465
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 86abc, microfiche 51 fig 3460 ["olim Frullania virginica G, leg Austin, Evans p 17 Tab 8"]
-com nov	Schuster	1992	603	Hepat N America 5: 147- , fig 794, 795(5-12)

vitalii Yuzawa & S.Hatt. 1988 380

Subgenus: Diastaloba Diastaloba I

Typus: Brazil D. Vital 5570

iin hb NICH [holotypus]
in hb SP 127036, hb YUZAWA [isotypus]

Basionym:

Distribution: Guatemala, Brazil

spec nov	Yuzawa & Hattori	1988	138	J Jap Bot 63 (1): 30-32, fig. 1-2 (1000m)
	Yano	1995	2095	J Hatt Bot Lab 78: 143 [annotated checklist of Brazil]
	Costa & Yano	1998	757	Hoehnea 25 (2): 103 [Brasil]
	Yano & de Mello	1999	919	Iheringia, ser Bot 52: 82-83 [Brasil]
	Yano	1999	1263	Briophyta do estado de São Paulo. Lista provisória [Brazil]
	Visnadi & Vital	2001	1120	Acta bot bras 15 (2): 258 & 260 [Brazil]
	Gradstein & Costa	2003	984	Mem New York Bot Gard 87: 91, fig 25(g-h) [Brazil] (to 1000m)
	Freire	2004	4396	"los musgos" del Biotopo Universitario para la Conservación del Quetzal [Fr cf. vitalii, Guatemala]: 32
	Costa, Alencar Imbassahy & Silva	2005	1382	J Hatt Bot Lab 98: 284 [Rio de Janeiro State, Brazil]
	Costa, Imbassahy & Silva	2005	1448	Rodriguesia 56 (87): 38 [State of Rio de Janeira] (0-1000m)
	Yano & Peralto	2007	1461	Hoehnea 34(1): 92
	Visnadi	2008	1619	Bol. Mus. Para. Emilio Goeldi Cienc. Nat (Belem) 3(1)
	Yano	2008	1684	Boletim Instituto Botanica 19: 33 [Brazil; catalog]
	Mizutani, Hasegawa & Iwatsuki	2009		Type specimens Hatt Bot Lab (NICH) 38: Holotype. Brazil, Sao Paulo State, Municipio de Juguia. 8 Mar. 1976. D. Vital 5570 (NICH 359888).
	Santos & Costa	2010	2869	The Bryologist 113(3): 637 (0-50m)
	Visnadi	2010	3813	Tropical Bryology 32: 79
	Visnadi	2011	3256	Bol. Mus. Para. Emílio Goeldi. Cienc. Nat., Belém 6(3): 315 (40-1279m)
	Yano et al	2011	3718	Hoehnia 38(3): 438
	Schäfer-Verwimp, Peralta & Costa Siqueira	2012	3323	Phytotaxa 57: 31 [Key to the species of Frullania subg. Diastaloba from Brazil]
	Visnadi	2013	3811	Tropical Bryology 34: 28
	Visnadi	2013	3759	Bol. Mus. Para. Emilio Goeldi Cienc. Nat (Belem) 8(1): 60
	Ristow et al	2015	4112	Pesquisas, Botanica 67: 70 (5m)
	Carmo et al	2016	6139	Hoehnea 43(2): 277 [Brazil]
	Almeida Amelia et al	2017	4777	Bol. Soc. Argent. Bot. 52(2): 204 (material to build birds' nests)
	Carmo et al	2018	5021	Hoehnea 45(3): 498 [Brazil]
	Lima	2019	5121	Frullania no Brasil [Thesis]: 106-110, fig. 11 [distribution] (2-1200m)
	Koga & Peralta	2021	6085	Acta Botanica Brasilica 35(3): 402 [Brazil]

vittata fo. denticulata S.Hatt. 1980 382

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea. PNG: Morobe, Samanzing, 1800-2000 m 1938, Clemens 8998/H-e

in hb NICH [holotypus]
in hb JE [isotypus]

Basionym:

Distribution: New Guinea (endemic)

fo nov	Hattori	1980	489	J Hatt Bot Lab 47: 85-87, fig. 219(a-o)
	Hattori	1982	495	J Hatt Bot Lab 51: 231
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 25 [Cat. West Melanesia]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 39: Holotype. New Guinea, Prov. Morobe, Samanzing. 1800-2000 m. On tree. 1938: Clemens 8998/H-e (NICH 432043).

vittata S.Hatt. 1974 381

Subgenus: Diastaloba Diastaloba I

Typus: New Guinea. Papua New Guinea: Morobe, Wau Dist., Mt. Kaindi summit, 2350 m 1967, Schuster 67-5820/b

in hb NICH [holotypus]
in hb JE [isotypus]

Basionym:

Distribution: New Guinea [Papua New Guinea] (endemic)

spec nov	Hattori	1974	546	J Hatt Bot Lab 38: 270-272, fig. 138
	Hattori	1982	495	J Hatt Bot Lab 51: 231
	Grolle & Piippo	1984	143	Acta Bot Fennica 125: 25 [Cat. West Melanesia]
	Hattori	1988	516	J Hatt Bot Lab 65: 451-452 [PNG]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 38: Holotype. New Guinea, Wau Distr., Mt. Kaindi. 2350 m. Epiphytic. 1967. R. M. Schuster 67-5820/b (NICH 432042).

vittiana S.Hatt. 1987 383

Subgenus: Trachycolea

Typus: Australia. [NSW] Lord Howe Isl. 1. N slope of Mt Lidgbird & 2. along Big Creek 6.9.1981, Vitt 28348

hb NICH [holotypus]
in hb ALTA [isotypus]

Basionym:

Distribution: Lord Howe Isl

spec nov	Hattori	1987	400	Bryologist 90 (4): 368-369, fig. 21-28 [close to Fr. howeana]
	Carthy	2003	1125	Flora Australia Suppl Ser 21: 112 [not in Australia, only from Lord Howe Isl]
	Glenny, Meagher & Brown	2004	1127	Austalian Liverworts [Australia] http://plantnet.rbgsyd.nsw.gov.au/PlantNet/Liverworts/index.html
	Scott, Entwisle, May & Stevens	2004	1162	Conservation Overview, Australia, Append B [printed 30 pages]: 26 [Very restricted, vulnerable, Australia] [http://www.dreh.gov.au/biodiversity/threatened/action/cryptogams/12.html]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 39: Holotype. Lord Howe I., Mt. Lidgbrird. 6 Nov. 1981. D. H. Vitt 28348 (NICH 408347).
	Engel, von Konrat, Glenny	2023	6397	Acta Biologica Plantarum Agriensis 11(1): 251, 1-4 [New Zealand, with key]

vivipara Pócs 2008 2377

Subgenus: Diastaloba Diastaloba I

Typus: Fiji Islands, Kadavu, ridge SE of Vunisea telecom tower, 100-120 m , S. Pócs & T. Pócs 03307/B

in hb GOET 9982 [paratypus]

Basionym:

Distribution: Fiji

spec nov	Pocs	2008	1812	Fieldiana, Bot. (n.ser.) 47: 151

wagneri Steph. 1910 334

Subgenus: Incertae sedis

Typus: Panama: Maume s Gorgone sd, M. Wagner sn

ex hb M, in hb G

Basionym:

Distribution: Panama

spec nov	Stephani	1910	686	Spec Hepat 4: 392
	Bonner	1965	655	Index Hepat 5: 465-466
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C- 79, microfiche 51 fig 3445 [from type; "Panama, locis Maume & Gorgone, D M Wagner 1858

wairua von Konrat & Braggins 2005 2296

Subgenus: Diastaloba Diastaloba I

Typus: New Zealand. North Island, Radar Bush, WSW of Cape Reiga, S of Mt Te Paki 20.3.1998 Matt von Konrat 98/101

in hb AK 292840 [holotypus]
in hb F 1173574 [isotypus]

Basionym:

Distribution: New Zealand (North Isl)

spec nov	Konrat & Braggins	2005	1376	New Zealand J Bot 43: 885-893, fig 1(a-l) & 2(a-g) [New Zealand, North Isl]
	NN	2011	3007	New Zealand Plant Conservation Network www.nzpcn.org.nz

wandoorensis Chavan 1992 [Thesis] 2483

Subgenus:

Typus: India, Andaman Isl, Pavajig jungle, Baratang Sept. 1987

hb of Abasaheb Garware College (Research Centre), Karve Road, Pune 411 004

Basionym:

Distribution:

	Joshi et al	1991	4859	Advances in Plant Science 4(1): 96 [as Fr. spec]
spec nov	Chavan	1992	4853	Thesis - Univ of Poona: 80-83 , pl. 23(1-18), 24(19-36)

wangii S.Hatt. & P.J.Lin 1985 335

Subgenus: Trachycolea

Typus: China: Xizang, Song Ta Shan, 3000 m 26.6.1982, M. Z. Wang 8342 a

in hb NICH [holotypus]

Basionym:

Distribution: China (Xizang, Yunnan)

spec nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 146-147, fig. 5
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 406, fig 202(9-14) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 127, fig. 56(6-10)
	Bai	2001	1742	Guizhou Science 19(4): 45 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 19 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1110, fig 518(9-14) [China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 39: Holotype. China, Xizang, Song Ta Shan. 3000 m. 29 June 1982. M. Z. Wang 8342a (NICH 401068).

warnckeana S.Hatt. 1974 336

Subgenus: Diastaloba Diastaloba I

Typus: Thailand. near Chiangmai 15.7.1968, Larsen, Sanisuk & Warncke 2501

in hb AARHUS UNIV [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution: Thailand, Laos

spec nov	Hattori	1974	545	J Hatt Bot Lab 38: 213-215, fig. 102(a-o)
	Hattori, Thaithong & Kitagawa	1977	480	J Hatt Bot Lab 43: 445 [Thailand]
	Hattori & Thaithong	1978	128	J Jap Bot 53 (6): 177 [Laos]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 158 [sg Frull, sect. Gracilis]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 39; Holotype. Thailand, Doi Suthep. July 1968. K. Larsen 2501 (NICH 318(52).
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 32-34, fig 11(a-j) [checklist & revision of genus Fullania, Thailand]

warnckeana var. dentosa S.Hatt. 1977 337

Subgenus: Diastaloba Diastaloba I

Typus: Vietnam: ? , 300 m 17.8.1963, Pocs 2512/a

in hb EGR [holotypus]
in hb NICH [isotypus]

Basionym:

Distribution: Vietnam

var nov	Hattori	1977	415	Misc Bryol Lichen 7 (8): 162

weberbaueri Steph. 1911 338

Subgenus: Meteoriopsis Meteoriopsis

Typus: Peru. Lima 1901, Weberbauer 27

in hb G - G00066925 - n° SIB 124189/1 [holotypus]
in hb G - G00066926 - n° SIB 124187/1(ex hb De Candolle, "Dr. A.Weberbauer: Flora of Peru, Amankes bei Lima") [isotypus]
in hb G - 13677 - G00066924 - n° SIB 124188/1 [isoypus]

Basionym:

Distribution: Peru

spec nov	Stephani	1911	686	Spec Hepat 4: 510 [= sgen Frullania] [published 11.3.1911]
	Weberbauer	1911	792	Pflanzenwelt Peruan Anden: 145 [Peru] - only name mentioned
	Weberbauer	1945	793	Mundo Vegetal Andes Peruanos: 257 [Peru]
	Bonner	1965	655	Index Hepat 5: 466
	Menzel	1984	142	Willdenowia 14: 490 [Peru]
	Stephani	1985	928	Stephani Icon Hepat Inedit [Thyopsiella] F- 99, microfiche 58 fig 4021 ["Peru, Lima, leg Weberbauer 27"]
	Uribe	2008	1513	Caldasia 30(1): 83-85, fig 7 & 12 [Monography of subgenus Meteoriopsis] [belongs to Meteoriopsis]
	Larrain, Vargas, Uribe-M, von Konrat	2016	4265	Gayana Bot. 73(1): 19-24, 2016

winteri var. vanderhammenii (Haarbrink) Yuzawa 1991 246

Subgenus: Chonanthelia Pluricarinatae

Basionym: Frullania vandenhammenii Haarbrink 1981

Distribution: Colombia, Ecuador

comb nov	Yuzawa	1991	525	J Hatt Bot Lab 70: 233-234, fig. 27, map 4 d(:283)
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 38 [Catalogue Colombia]
	Nöske, Gradstein, Kürschner, Parolly & Torracchi	2003	1084	Crypt Bryol 24 (1): 25 [Reserva Biologica San Francisco, Ecuador]
	Parolly & Kürschner	2004	1217	Nova Hedwigia 79(3-4): 411, 416, tab 6 [Podocarpus NP, Ecuador, epiphytic]
	Kürschner & Parolly	2005	1362	Nova Hedwigia 80 (1-2): 94 [Ecuador; Podocarpus NP]
	Gradstein	2021	5642	Mem NY Bot Gard 121: 382 [key -Ecuador, Colombia]

winteri Steph. 1910 245

Subgenus: Chonanthelia Pluricarinatae

Typus: Mexico. sd, Leibold sn

in hb G G00066922 - n° SIB 124217/1 - 19750 (ex hb RABENHORST, missit Dr. Winter) [holotypus]

Basionym:

Distribution: Mexico, Colombia, Venezuela, Bolivia

spec nov	Stephani	1910	686	Spec Hepat 4: 338-339
	Stephani	1916	222	Biblioth Bot 87: 241 [Bolivia]
	Bonner	1965	655	Index Hepat 5: 467
	Stephani	1985	928	Stephani Icon Hepat Inedit [Chonanthelia] A- 55ab, microfiche 47 fig 3148 ["Mexico Leibold Herb Winter"] - 3149 ["Costarica 1500m Herb Levier 6216 (leg C Werkle)"]
	Fulford & Sharp	1990	105	Mem NY Bot Gard 63: 47 [Mexico]
	Yuzawa	1991	525	J Hatt Bot Lab 70: 231-233, fig. 26, map 4 d(:283)
	Wolf	1993	2380	Phytocoenologia 22(1): 20 [Colombia, Epiphyte - Lower montane rain forest communities]
	Uribe & Gradstein	1998	707	Bryophyt Bibl 53: 38 [Catalogue Colombia]
	Gradstein & Uribe	2011	3230	Caldasia 33(2): 374 [Colombia; synopsis of Frullaniacae & keys]
	Bernal, Gradstein & Celis	2016	4290	Catálogo de plantas y líquenes de Colombia. Vol. I.

yuennanensis var. siamensis (N.Kitag., Thaithong & S.Hatt.) S.Hatt. & P.J.Lin 1985 344

Subgenus: Trachycolea

Basionym: Frullania siamensis N.Kitag., Thaithong & S.Hatt. 1977

Distribution: China (Guangxi, Yunnan), Thailand, Bhutan

comb nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 148-149
	Piippo	1990	521	J Hatt Bot Lab 68: 49 [annotated catalogue of China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 417 [China, Yunnan]
	Bai	2001	1742	Guizhou Science 19(4): 47 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 20 [Yunnan, China]
	Nath & Saxena	2002	2572	WCB Lucknow: 57 [Bhutan]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1122, fig 525(10-15) [China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 224(10-15) [key in Chinese]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 54-57, fig 24(a-k) [checklist & revision of genus Fullania, Thailand]

yuennanensis Steph. 1894 341

Subgenus: Trachycolea

Typus: - G: China: Yuennan, Ma-Eul-Chan, 2800 m - PC: China: Les forêts de Koua-la-po (Honkin) - G: 9.7.1889, Delavay sn - PC: 4.8.1885, Delavay J.M. 1651, sur les vieux arbres

in hb G G00066921 - n° SIB 124209/1 - 18869 (Ma-Eul-Chan, 2800 m, 9.7.1889, Delavay sn) [holotypus]
in hb PC PC0103061 [isosyntypus] & PC0103060, PC0103063

Basionym:

Distribution: China (Yunnan, Sichuan, Xizang, Guangdong, Fujian), Taiwan, Himalayas (W), India (North: Uttaranchal (Dwali), West Bengal (Darjeeling)), Nepal, Sikkim, Bhutan, Thailand

	Stephani	1894	211	Mem Soc Nat Sci, Nat Math Cherbourg 29: 214 [China; spec nov]
spec nov	Stephani	1894	228	Hedwigia 33: 161 [spec nov]
	Stephani	1910	686	Spec Hepat 4: 447
	Verdoorn in Handel-Mazzetti	1930	550	Symb Sinicae 5: 41 [China]
	Hattori in Hara	1966	841	Flora of Eastern Himalaya: 528-529 [one of most frequent Frullanias; close to Fr grevilleana => Fr nepalensis] [as Fr yunnanensis]
	Hattori in Hara	1971	190	Univ Mus Univ Tokyo Bull 2: [Bhutan] [as Fr yunanensis]
	Hattori in Ohashi	1975	187	Univ Mus Univ Tokyo Bull 8: 236 [Nepal] [as Fr. yunnanensis]
	Hattori	1977	415	Misc Bryol Lichen 7 (8): 162 [Formosa] [as Fr yuennanensis, but changed in Fr yunnanensis]
	Hattori & Thaithong	1978	70	Bull Natn Sci Mus Tokyo, ser B (Bot), 4 (2): 69 [Darjeeling] [as Fr yunnanensis]
	Hattori & Thaithong	1978	127	J Jap Bot 53 (5): 132 [India] [as Fr yunnanensis]
	Hattori	1978	482	J Hatt Bot Lab 44: 548-550, fig. 216 [as Fr. yunnanensis]
	Hattori & Thaithong	1978	481	J Hatt Bot Lab 44: 193 [Darjeeling] [as Fr yunnanensis]
	Hattori in Mizutani	1979	487	J Hatt Bot Lab 46: 323 [Easter Nepal] [as Fr yunnanensis]
	Nath & Udar	1984	442	Proc Indian Natn Sci Acad, B 50 (2): 224-226, pl. 1(1-23)
	Stephani	1985	928	Stephani Icon Hepat Inedit [Galeiloba] C-193, microfiche 53 fig 3598 ["Yunnean, Bois de Ma cul cban, 2800m, Delavay 9/7.89"]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 148 [China]
	Schuster	1985	441	Phytologia 57 (5): 372 [sect Cladogynae - type species for nov sect]
	Kuo & Chiang	1988	948	Taiwania 33: 14 [Index of Taiwan]
	Long & Grolle	1990	522	J Hatt Bot Lab 68: 413 [Bhutan, habitat & distribution]
	Piippo	1990	521	J Hatt Bot Lab 68: 48 [annotated catalogue of China]
	Chao & Lin	1991	458	Yushania 8: 17-18 [Taiwan]
	Chao & Lin	1992	460	Yushania 9: 212, fig 22(a-n) [Taiwan]
	Schuster	1992	603	Hepat N America 5: 125
	Yuzawa & Koike	1994	38	J Hatt Bot Lab 75: 198 [Nepal]
	Parihar, Lal & Katiyar	1994	2196	Hepat Anth India, annotated checklist: 22 [Eastern Himalaya, Nepal] - new record from india (Lal1979)
	Lin & Chen	1997	1130	Biol Bull 75: 118-119, fig 26(a-d) [Taiwan, key to species, in Taiwanese]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 127, fig. 53(6-9)
	Bapna & Kachroo	2000	712	Hepaticology in India II: 184, fig 169(a-e) [as yunnanensis]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 417, fig 209(1-9) [China, Yunnan] [as yunnanensis]
	Lin	2000	1524	Liverwort Flora Taiwan: 179, fig 179(1-3) [Taiwan]
	Bai	2001	1742	Guizhou Science 19(4): 45-47 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 19-20 [Yunnan, China]
	Kattel	2002	1032	Liverworts of Nepal, Katmandu: 20 [Nepal, 1150-4000 m; as "yunnanensis"]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1122, fig 525(1-9) [China]
	Zhu & So	2003	1083	Crypt Bryol 24 (4): 328 [Guangxi Prov, China]
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 224(1-9) [key in Chinese]
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]
	Sukkharak	2017	4719	Nova Hedwigia (Pre-Pub): 53-54, fig 23(a-h) [checklist & revision of genus Fullania, Thailand]

yuzawana S.Hatt. 1981 348

Subgenus: Trachycolea

Typus: Taiwan, Chitou; 1200 m; On bark of tree 26-27.7.1979, Y. Yuzawa 16661

in hb NICH 371772 [holotypus]
in hb YUZAWA [isotypus]

Basionym:

Distribution: Taiwan (endemic)

spec nov	Hattori	1981	491	J Hatt Bot Lab 49: 157-159, fig 246(a-l)
	Yamada, Yuzawa, Ogasawara & Lai	1981	949	Quart J Taiwan Mus 34 (1,2): 114 [Taiwan]
	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 149
	Kuo & Chiang	1988	948	Taiwania 33: 14 [Index of Taiwan]
	Piippo	1990	521	J Hatt Bot Lab 68: 49 [annotated catalogue of China]
	Chao & Lin	1991	458	Yushania 8: 18 [Taiwan]
	Chao & Lin	1992	460	Yushania 9: 212, fig 23(a-g) [Taiwan]
	Lin & Chen	1997	1130	Biol Bull 75: 119, fig 27(a-d) [Taiwan, key to species, in Taiwanese]
	Lin	2000	1524	Liverwort Flora Taiwan: 179, foto p 180 [Taiwan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 39: Hollotype. Taiwan, Chitou. 1200 m. On bark of tree. 26-28 July 1979. Y. Yuzawa 16661 (NICH 371772).
	Wang, Lai & Zhu	2011	3125	Annales Botanici Fennici 48: <369-395> [Checklist Taiwan]

zangii S.Hatt. & P.J.Lin 1985 349

Subgenus: Trachycolea

Typus: China, Sichuan, Wuming Shan; 4050 m; On rock in forest 17.8.1981, M. Z. Zang 81-3931c

in hb NICH 401074 [holotypus]

Basionym:

Distribution: China (Sichuan, Yunnan, Xizang)

spec nov	Hattori & Lin	1985	505	J Hatt Bot Lab 59: 149-151, fig. 6
	Piippo	1990	521	J Hatt Bot Lab 68: 49 [annotated catalogue of China]
	Piippo, He & Kaponen	1997	628	Ann Bot Fennici 34: 52, 61 [Sichuan]
	Piippo, He, Koponen, Refearn & Li	1998	697	J Hatt Bot Lab 84: 144 [checklist of Yunnan, China]
	Bai in Gao & Cao	2000	1019	Fl Yunnanica 17: 406, fig 203(1-6) [China, Yunnan]
	Wu & Wang	2000	2671	Bryoflora of Hengduan MTS (Southwest China): 127, fig. 56(11-15)
	Bai	2001	1742	Guizhou Science 19(4): 47 [China, Yunnan]
	Bai	2002	1189	Chenia 7: 20 [Yunnan, China]
	Gao & Lai	2003	1441	Illustrations Bryophytes China: 1112, fig 519(1-6) [China]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 39: Holotype. China, Sichuan, Wuming Shan. 4050 m. On rock in forest. 17 Aug. 1981. M. Z. Zang 81-3931c (NICH 401074).
	Gao & Wu	2010	2349	Genera Hepat. et Anth. Sinicorum: fig. 231(1-6) [key in Chinese]

zennoskeana S.Hatt. 1984 351

Subgenus: Trachycolea

Typus: Japan, Bonin Is., Hahajima I., Uchuzawa Valley near Inokuma-dani Valley; 250-300 m; On fallen tree 11.8.1980, Iwatsuki & Suzuki 8741

in hb NICH 177622 [holotypus]

Basionym:

Distribution: Bonin Isl & Volcano Isl, Japan

spec nov	Hattori	1984	134	J Jap Bot 59 (10): 308-311, fig. 1 [close to Fr. pedicellata ST.]
	Furuki & Mizutani	1994	1331	Proc Bryol Soc Japan 6 (5): 78 [Japan; checklist]
	Furuki	1997	1689	J Nat Hist Mus Inst Chiba 4(2): 104 [Iwo (Volcano) Islands, Northwestern Micronesia]
	Yuzawa	2001	1660	Natural Environmental Sci Res 14: 43, fig fig 36(a-m [Japan, keys to species; in Japanese]
	Yamada & Iwatsuki	2006	1470	J Hatt Bot Lab 99: 33 [Catalog of Japan]
	Mizutani, Hasegawa & Iwatsuki	2009	2112	Type sepecimens Hatt Bot Lab (NICH) 39: Holotype. Japan, Bonin Is., Hahajima I., Uchuzawa Valley near Inokuma-dani Valley. 250-300 m. On fallen tree. 11 Aug. 1980. Z. 1watsuki and T Suzuki 8741 (NICH 177622).
	Katagiri & Furuki	2018	4966	Hattoria 9: 67 [Checklist of Japanese liverworts and hornworts]

zerovii Mamontov, Ignatov & Perkovsky 2018 2528

Subgenus:

Typus: Klesov, amber quarry "Pugach". Rovno amber. Liverwort inclusion in piece SIZK-K-10071F (Figs 1-13).
Rovno amber collection of the Schmalhausen Institute of Zoology in Kiev (SIZK).SIZK-K-10071F (Figs 1-13) [holotype]
Basionym:

Distribution: Fossil Ukraine (Rovno amber)

spec nov	Mamontov et al.	2018	4779	Nova Hedwigia 106(1-2): 103-113

zhenjingensis (C. Gao & G.C. Zhang) Y. Jia & S. He 2013 2484

Subgenus:

Typus: China. "Zhejiang: Mt. Nanyandangshan . . . 250 m . . . ." Jul 28, 1960 Gao Chien 835
Institution(s): Holotype: ISPH [=IFP]
Basionym: Neohattoria zhenjingensis C. Gao & G.C. Zhang

Distribution: China

	Zhang & Gao	1984	4905	Bulletin of Botanical Research, Harbin 4(3): 90-92. f. 7. [as Neohattoria zhenjingensis C. Gao & G.C. Zhang]
	Piippo	1990	521	J Hatt Bot Lab 68: 84 [as Neohattoria zhenjingensis C. Gao & G.C. Zhang]
	Wu	2010		Genera Hepaticopsida et Anthocerotopsida Sinicorum 380. 2010 [*invalid, basionym citation incomplete]
comb nov	Jia & He	2013	4906	Species Catalogue of China 1 (Plants, Bryophyta): 381
	NN	2018	4904	Classification and Codes of Chinese Plants: 24: A057001096 - 浙江耳叶 - Frullania zhenjingensis (C. Gao & G. C. Zhang) Y. Jia & S. He

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