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Cover photo: *Frullania pycnantha* with perianths growing as an epiphyll (photo: John Braggins).

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Porellineae R.M.Schust.

*** Goebeliellaceae Verd.

by M. von Konrat and M.A.M. Renner

*** ***Goebeliella* Steph.**, Hedwigia 51 (1): 61, 1911 (Stephani 1911c).
*** *Goebeliella cornigera* (Mitt.) Steph., Hedwigia 51 (1): 62, 1911 (Stephani 1911c). Bas.: *Frullania cornigera* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 163, 1855 (Mitten 1855).

*** Lepidolaenaceae Nakai

by M. von Konrat

The generic composition of Lepidolaenaceae follows Crandall-Stotler et al. (2009), except that the genus *Jubulopsis* was reduced to a synonym of *Lepidolaena* by von Konrat et al. (2012a).

*** ***Gackstroemia* Trevis.**, Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 397, 1877 (Trevisan 1877).

** **subg. *Gackstroemia***
** *Gackstroemia ljungneri* (Herzog) Grolle, J. Hattori Bot. Lab. 30: 17, 1967 (Grolle 1967a). Bas.: *Lepidolaena ljungneri* Herzog, Ark. Bot. 29A (21): 6, 1940 (Herzog 1940).
*** *Gackstroemia magellanica* (Lam.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 397, 1877 (Trevisan 1877). Bas.: *Jungermannia magellanica* Lam., Encycl. (Lamarck) 3 (1): 284, 1789 (Lamarck 1789).
*** *Gackstroemia novae-zelandiae* R.M.Schust. et J.J.Engel, Phytotaxa 118 (1): 10, 2013 (Engel 2013a).
*** *Gackstroemia weindorferi* (Herzog) Grolle, J. Hattori Bot. Lab. 30: 20, 1967 (Grolle 1967a). Bas.: *Lepidolaena weindorferi* Herzog, Ann. Bryol. 6: 103, 1933 (Verdoorn 1933a).

** **subg. *Hariotiella* (Besch. et C.Massal. ex Schiffn.) Grolle**, J. Hattori Bot. Lab. 30: 12, 1967 (Grolle 1967a). Bas.: *Lepidolaena* subg. *Hariotiella* Besch. et C.Massal. ex Schiffn., Hepat. (Engl.-Prantl): 110, 1893 (Schiffner 1893b).
*** *Gackstroemia hariotiana* (Besch. et C.Massal.) Grolle, J. Hattori Bot. Lab. 30: 12, 1967 (Grolle 1967a). Bas.: *Polyotus hariotianus* Besch. et C.Massal., Bull. Mens. Soc. Linn. Paris 1 (79): 639, 1886 (Bescherelle and Massalongo 1886).

*** *Gackstroemia patagonica* (Steph.) Grolle, J. Hattori Bot. Lab. 30: 14, 1967 (Grolle 1967a). Bas.: *Lepidolaena patagonica* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 76, 1911 (Stephani 1911b).

** *Gackstroemia schwabei* (Herzog) Grolle, J. Hattori Bot. Lab. 30: 16, 1967 (Grolle 1967a). Bas.: *Lepidolaena schwabei* Herzog, Rev. Bryol. Lichénol. 29 (3/4): 191, 1960 [1961] (Herzog 1960).

Incertae sedis

*** *Gackstroemia alpina* R.M.Schust., J. Hattori Bot. Lab. 36: 349, 1972 [1973] (Schuster 1972).

*** ***Lepidogyna* R.M.Schust.**, Phytologia 45 (5): 419, 1980 (Schuster 1980b).

*** *Lepidogyna hodgsoniae* (Grolle) R.M.Schust., Phytologia 45 (5): 419, 1980 (Schuster 1980b). Bas.: *Lepidolaena hodgsoniae* Grolle, J. Hattori Bot. Lab. 30: 29, 1967 (Grolle 1967a).

*** *Lepidogyna menziesii* (Hook.) R.M.Schust., Phytologia 45 (5): 419, 1980 (Schuster 1980b). Bas.: *Jungermannia menziesii* Hook., Musci Exot. 2: tab. 118, 1820 (Hooker 1820).

*** ***Lepidolaena* Dumort.**, Recueil Observ. Jungerm.: 13, 1835 (Dumortier 1835). [369]

*** *Lepidolaena berggrenii* E.A.Hodgs., Trans. Roy. Soc. New Zealand 87 (3/4): 205, 1959 (Hodgson 1959).

** *Lepidolaena brachyclada* (Lehm.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Frullania brachyclada* Lehm., Nov. Stirp. Pug. 8: 21, 1844 (Lehmann 1844).

*** *Lepidolaena clavigera* (Hook.) Dumort. ex Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Jungermannia clavigera* Hook., Musci Exot. 1: tab. 70, 1818 (Hooker 1818).

*** *Lepidolaena novae-zelandiae* (E.A.Hodgs. et S.W.Arnell) von Konrat, L.Söderstr. et A.Hagborg, Phytotaxa 65: 51, 2012 (von Konrat et al. 2012a). Bas.: *Jubula novae-zelandiae* E.A.Hodgs. et S.W.Arnell, Trans. Roy. Soc. New Zealand, Bot. 3 (4): 90, 1965 (Hodgson 1965).

*** *Lepidolaena palpebrifolia* (Hook.) Dumort. ex Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Jungermannia palpebrifolia* Hook., Musci Exot. 1: tab. 71, 1818 (Hooker 1818).

*** *Lepidolaena reticulata* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Jungermannia reticulata* Hook.f. et Taylor, London J. Bot. 3: 395, 1844 (Hooker and Taylor 1844a).

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369 *Lepidolaena* includes *Polyotus*, but a few taxa have neither been transferred nor synonymized. They are listed in the "Names in genera not currently accepted" section below.

*** *Lepidolaena taylorii* (Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Polyotus taylorii* Gottsche, Syn. Hepat. 2: 246, 1845 (Gottsche et al. 1845a).

*** Porellaceae Cavers *nom. conserv.*

*** ***Ascidiota* C.Massal.**, Nuovo Giorn. Bot. Ital. (n.ser.) 5 (2): 256, 1898 (Massalongo 1898).

*** *Ascidiota blepharophylla* C.Massal., Nuovo Giorn. Bot. Ital. (n.ser.) 5 (2): 257, 1898 (Massalongo 1898).

** *Ascidiota blepharophylla* subsp. *alaskana* Steere et R.M.Schust., Bull. Torrey Bot. Club 87 (3): 213, 1960 (Steere and Schuster 1960).

*** ***Porella* L.**, Sp. Pl. 1: 1106, 1753 (Linnaeus 1753).

** *Porella abyssinica* (Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca abyssinica* Nees, Syn. Hepat. 2: 281, 1845 (Gottsche et al. 1845a).

** *Porella abyssinica* var. *hoehnelii* (Steph.) Pócs, Fragm. Florist. Geobot. 39 (1): 229, 1994 (Pócs 1994a). Bas.: *Porella hoehnelii* Steph., Hedwigia 30 (6): 266, 1891 (Stephani 1891c).

** *Porella acutifolia* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 408, 1877 (Trevisan 1877). Bas.: *Madotheca acutifolia* Lehm. et Lindenb., Nov. Stirp. Pug. 7: 8, 1838 (Lehmann 1838).

** *Porella acutifolia* var. *hattoriana* (Pócs) S.Hatt., Misc. Bryol. Lichenol. 8 (4): 79, 1979 (Hattori 1979c). Bas.: *Porella plumosa* var. *hattoriana* Pócs, J. Hattori Bot. Lab. 31: 82, 1968 (Pócs 1968).

* *Porella acutifolia* var. *linguifolia* (Steph.) M.L.So, Syst. Bot. 27 (1): 5, 2002 (So 2002a). Bas.: *Madotheca linguifolia* Steph., Sp. Hepat. (Stephani) 4: 291, 1910 (Stephani 1910b). [370]

** *Porella acutifolia* subsp. *tosana* (Steph.) S.Hatt., J. Hattori Bot. Lab. 44: 100, 1978 (Hattori 1978a). Bas.: *Madotheca tosana* Steph., Bull. Herb. Boissier 5 (2): 97, 1897 (Stephani 1897b).

* *Porella andica* (Gottsche) Hässel, Beih. Nova Hedwigia 134: 452, 2009 (Hässel and Rubies 2009). Bas.: *Madotheca andica* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 339, 1857 (Gottsche 1857). [371]

370 *Porella acutifolia* var. *linguifolia* was accepted by So (2002a), but it is conspecific with *Plagiochila viridissima* in Hattori (1976f, 1986d). This synonymy is doubtful and further study is necessary to clarify the status.

371 *Madotheca andica* was transferred to *Porella* by Hässel (in Hässel and Rubies 2009), but she did not study the type specimen. It may be conspecific with *Plagiochila subsquarrosa*.

*** *Porella arboris-vitae* (With.) Grolle, Trans. Brit. Bryol. Soc. 5 (4): 770, 1969 (Grolle 1969b). Bas.: *Jungermannia arboris-vitae* With., Bot. arr. veg. Gr. Brit. 2: 697, 1776 (Withering 1776).

** *Porella arboris-vitae* subsp. *nitidula* (C.Massal.) S.Hatt., J. Hattori Bot. Lab. 40: 123, 1976 (Hattori 1976f). Bas.: *Madotheca nitidula* C.Massal., Bull. Soc. Bot. Ital. 1906: 141, 1906 (Massalongo 1906b).

** *Porella baueri* (Schiffn.) C.E.O.Jensen, Danmarks mosser: 240, 1915 (Jensen 1915). Bas.: *Madotheca baueri* Schiffn., Sitzungsber. deutsch. naturwiss.-med. Vereins Böhmen "Lotos" Prag 48: 346, 1900 (Schiffner 1900d).

** *Porella bolanderi* (Austin) Pearson, List. Canad. Hepat.: 7, 1890 (Pearson 1890). Bas.: *Madotheca bolanderi* Austin, Bull. Torrey Bot. Club 3 (3): 14, 1872 (Austin 1872).

** *Porella borellii* (Gola) Parihar, Univ. Allahabad Stud., Bot. 1961-2: 15, 1962 (Parihar 1962). Bas.: *Madotheca borellii* Gola, Atti Reale Accad. Sci. Torino, Cl. Sci. Fis. Mat. Nat. 49: 760, 1914 (Gola 1914b).

*** *Porella brachiata* (Taylor) Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 334, 1885 (Spruce 1885). Bas.: *Madotheca brachiata* Taylor, London J. Bot. 6: 341, 1847 (Taylor 1847b).

*** *Porella brasiliensis* (Raddi) Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 246, 1893 (Schiffner 1893a). Bas.: *Schulthesia brasiliensis* Raddi, Critt. Brasil.: 10, 1822 (Raddi 1822).

* *Porella brasiliensis* var. *ciliata* (Gottsche, Lindenb. et Nees) Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 246, 1893 (Schiffner 1893a). Bas.: *Madotheca brasiliensis* β *ciliata* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 271, 1845 (Gottsche et al. 1845a).

* *Porella brasiliensis* var. *laevior* (Gottsche, Lindenb. et Nees) Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 246, 1893 (Schiffner 1893a). Bas.: *Madotheca brasiliensis* α *laevior* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 271, 1845 (Gottsche et al. 1845a).

** *Porella caespitans* (Steph.) S.Hatt., J. Hattori Bot. Lab. 33: 50, 1970 (Hattori 1970). Bas.: *Madotheca caespitans* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 218, 1894 (Stephani 1894b). [372]

** *Porella caespitans* var. *cordifolia* (Steph.) S.Hatt. ex T.Katag. et T.Yamag., Bryol. Res. 10 (5): 133, 2011 (Katagiri and Yamaguchi 2011). Bas.: *Madotheca cordifolia* Steph., Sp. Hepat. (Stephani) 4: 315, 1910 (Stephani 1910b).

** *Porella caespitans* subsp. *latior* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 40: 127, 1976 (Hattori 1976f). Bas.: *Porella acutifolia* subsp. *latior* S.Hatt., J. Hattori Bot. Lab. 32: 325, 1969 (Hattori 1969).

** *Porella caespitans* var. *nipponica* S.Hatt., J. Hattori Bot. Lab. 33: 57, 1970 (Hattori 1970).

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372 *Porella caespitans* was resolved as polyphyletic in the phylogeny of Hentschel et al. (2007b), suggesting that the species is a complex deserving further study.

** *Porella caespitans* var. *reflexigastria* (Pócs) S.Hatt., J. Hattori Bot. Lab. 40: 127, 1976 (Hattori 1976f). Bas.: *Porella reflexigastria* Pócs, J. Hattori Bot. Lab. 31: 71, 1968 (Pócs 1968).

** *Porella campylophylla* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 408, 1877 (Trevisan 1877). Bas.: *Jungermannia campylophylla* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 40, 1834 (Lehmann 1834).

** *Porella campylophylla* subsp. *lancistipula* (Steph.) S.Hatt., J. Hattori Bot. Lab. 44: 102, 1978 (Hattori 1978a). Bas.: *Madotheca lancistipula* Steph., Sp. Hepat. (Stephani) 6: 524, 1924 (Stephani 1924).

** *Porella campylophylla* var. *ligulifera* (Taylor) S.Hatt., J. Hattori Bot. Lab. 32: 333, 1969 (Hattori 1969). Bas.: *Madotheca ligulifera* Taylor, Nov. Stirp. Pug. 8: 10, 1844 (Lehmann 1844).

** *Porella campylophylla* var. *tixieri* (Pócs) S.Hatt., J. Hattori Bot. Lab. 40: 128, 1976 (Hattori 1976f). Bas.: *Porella plumosa* var. *tixieri* Pócs, J. Hattori Bot. Lab. 31: 82, 1968 (Pócs 1968).

** *Porella canariensis* (F.Weber) Underw., Rep. (Annual) Missouri Bot. Gard. 8: 186, 1897 (Trelease 1897). Bas.: *Jungermannia platyphylla* var. *canariensis* F.Weber, Hist. Musc. Hepat. Prodr.: 16, 1815 (Weber 1815).

* *Porella capehorniensis* Swails, Nova Hedwigia 19: 244, 1970 (Swails 1970). [373]

** *Porella capensis* (Gottsche) Mitt., J. Linn. Soc., Bot. 22 (146): 323, 1886 (Mitten 1886b). Bas.: *Madotheca capensis* Gottsche, Syn. Hepat. 2: 270, 1845 (Gottsche et al. 1845a).

* *Porella caucasica* Steph., Bot. Centralbl. 50 (3): 71, 1892 (Stephani 1892a).

** *Porella chenii* S.Hatt., J. Hattori Bot. Lab. 30: 129, 1967 (Hattori 1967).

*** *Porella chilensis* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Jungermannia chilensis* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 36, 1834 (Lehmann 1834).

* *Porella chilensis* var. *antucensis* (Gottsche) Hässel, Beih. Nova Hedwigia 134: 452, 2009 (Hässel and Rubies 2009). Bas.: *Madotheca chilensis* β *antucensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 340, 1857 (Gottsche 1857).

** *Porella chilensis* var. *fernandeziensis* (Herzog) Swails, Nova Hedwigia 19: 236, 1970 (Swails 1970). Bas.: *Madotheca chilensis* f. *fernandeziensis* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 736, 1942 (Herzog 1942a).

** *Porella chilensis* var. *microloba* (Herzog) Swails, Nova Hedwigia 19: 236, 1970 (Swails 1970). Bas.: *Madotheca chilensis* f. *microloba* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 736, 1942 (Herzog 1942a).

** *Porella chinensis* (Steph.) S.Hatt., J. Hattori Bot. Lab. 30: 131, 1967 (Hattori 1967). Bas.: *Madotheca chinensis* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 218, 1894 (Stephani 1894b).

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373 *Porella capehorniensis* may be conspecific with *Plagiochila setigera* and the type specimen is probably not from South America (Hässel and Rubies 2009).

** *Porella chinensis* var. *crispata* Udar et Shaheen, Misc. Bryol. Lichenol. 9 (4): 74, 1982 (Udar and Shaheen 1982).
** *Porella chinensis* var. *decurrens* (Steph.) S.Hatt., J. Hattori Bot. Lab. 44: 102, 1978 (Hattori 1978a). Bas.: *Madotheca decurrens* Steph., Sp. Hepat. (Stephani) 4: 289, 1910 (Stephani 1910b).
** *Porella chinensis* var. *hattorii* Udar et Shaheen, Misc. Bryol. Lichenol. 9 (7): 146, 1983 (Udar and Shaheen 1983a).
** *Porella chinensis* var. *irregularis* (Steph.) S.Hatt., J. Hattori Bot. Lab. 39: 270, 1975 (Hattori 1975c). Bas.: *Madotheca irregularis* Steph., Sp. Hepat. (Stephani) 4: 304, 1910 (Stephani 1910b).
** *Porella circinnata* Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 13: 355, 1874 (Lindberg 1874a).
*** *Porella cordaeana* (Huebener) Moore, Proc. Roy. Irish Acad. (ser. 2) 2: 618, 1877 (Moore 1877). Bas.: *Jungermannia cordaeana* Huebener, Hepaticol. germ.: 291, 1834 (Hübener 1834).
** *Porella cranfordii* Steph., Hedwigia 28 (4): 270, 1889 (Stephani 1889c).
*** *Porella crispata* (Hook.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Jungermannia crispata* Hook., Pl. crypt. (Hooker): tab. 4b, 1816 (Hooker 1816b).
** *Porella cucullistipula* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 32 (2): 38, 1893 [1894] (Stephani 1893e).
** *Porella densifolia* (Steph.) S.Hatt., J. Jap. Bot. 20: 109, 1944 (Hattori 1944c). Bas.: *Madotheca densifolia* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 219, 1894 (Stephani 1894b). [374]
** *Porella densifolia* subsp. *andamana* S.Hatt., J. Hattori Bot. Lab. 32: 346, 1969 (Hattori 1969).
** *Porella densifolia* subsp. *appendiculata* (Steph.) S.Hatt., J. Hattori Bot. Lab. 32: 343, 1969 (Hattori 1969). Bas.: *Madotheca appendiculata* Steph., Sp. Hepat. (Stephani) 4: 301, 1910 (Stephani 1910b).
** *Porella densifolia* var. *oviloba* (Steph.) N.Kitag., Acta Phytotax. Geobot. 19 (2/3): 64, 1962 (Kitagawa 1962b). Bas.: *Madotheca oviloba* Steph., Sp. Hepat. (Stephani) 4: 312, 1910 (Stephani 1910b).
** *Porella densifolia* var. *paraphyllina* (P.C.Chen) Pócs, J. Hattori Bot. Lab. 31: 84, 1968 (Pócs 1968). Bas.: *Madotheca paraphyllina* P.C.Chen, Feddes Repert. Spec. Nov. Regni Veg. 58: 42, 1955 (Chen 1955).
** *Porella densifolia* var. *pilosa* S.Hatt. et K.C.Chang, Bull. Bot. Res., Harbin 8 (2): 44, 1988 (Chang 1988).
** *Porella densifolia* var. *robusta* (Steph.) S.Hatt., J. Hattori Bot. Lab. 32: 343, 1969 (Hattori 1969). Bas.: *Madotheca robusta* Steph., Sp. Hepat. (Stephani) 4: 313, 1910 (Stephani 1910b).

374 *Porella densifolia* was resolved as paraphyletic in the phylogeny of Hentschel et al. (2007b), suggesting that the species is a complex deserving further study.

*** *Porella elegantula* (Mont.) E.A.Hodgs., Svensk Bot. Tidskr. 42 (3): 277, 1948 (Hodgson and Sainsbury 1948). Bas.: *Madotheca elegantula* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 255, 1843 (Montagne 1843).

** *Porella faurieri* (Steph.) S.Hatt., J. Jap. Bot. 20: 109, 1944 (Hattori 1944c). Bas.: *Madotheca faurieri* Steph., Sp. Hepat. (Stephani) 4: 315, 1910 (Stephani 1910b).

** *Porella fengii* P.C.Chen et S.Hatt., J. Hattori Bot. Lab. 30: 133, 1967 (Hattori 1967).

** *Porella geheebii* (Steph.) S.Hatt., Bot. Mag. (Tokyo) 64 (755/756): 114, 1951 (Hattori 1951c). Bas.: *Madotheca geheebii* Steph., Sp. Hepat. (Stephani) 4: 290, 1910 (Stephani 1910b).

** *Porella gracillima* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 202, 1891 (Mitten 1891).

** *Porella grandifolia* (Steph.) S.Hatt., J. Hattori Bot. Lab. 30: 136, 1967 (Hattori 1967). Bas.: *Madotheca grandifolia* Steph., Sp. Hepat. (Stephani) 4: 289, 1910 (Stephani 1910b).

** *Porella grandiloba* Lindb., Acta Soc. Sci. Fenn. 10: 234, 1872 [1873] (Lindberg 1872b).

** *Porella grollei* S.Hatt., J. Hattori Bot. Lab. 34: 411, 1971 (Hattori 1971b).

** *Porella handelii* S.Hatt., J. Hattori Bot. Lab. 33: 65, 1970 (Hattori 1970).

** *Porella hattorii* Udar et Shaheen, Lindbergia 9 (1): 70, 1983 (Udar and Shaheen 1983b).

** *Porella hoeana* S.Hatt., Misc. Bryol. Lichenol. 7 (5): 86, 1976 (Hattori 1976c).

* *Porella imbricata* Lour., Fl. Cochinch. 2: 683, 1790 (Loureiro 1790).

** *Porella inaequalis* (Gottsche) Perss., Arch. Soc. Zool. Bot. Fenn. "Vanamo", suppl. 9: 225, 1955 (Persson 1955). Bas.: *Madotheca inaequalis* Gottsche, Sp. Hepat. (Stephani) 4: 251, 1910 (Stephani 1910b).

** *Porella japonica* (Sande Lac.) Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 202, 1891 (Mitten 1891). Bas.: *Madotheca japonica* Sande Lac., Syn. hepat. jav.: 105, 1856 [1857] (Sande Lacoste 1856b).

** *Porella japonica* subsp. *appalachiana* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 682, 1980 (Schuster 1980c).

** *Porella japonica* var. *densespinosa* S.Hatt. et M.X.Zhang, J. Jap. Bot. 60 (11): 324, 1985 (Hattori and Zhang 1985).

** *Porella javanica* (Gottsche) Inoue, J. Hattori Bot. Lab. 30: 60, 1967 (Inoue 1967a). Bas.: *Madotheca javanica* Gottsche, Sp. Hepat. (Stephani) 4: 290, 1910 (Stephani 1910b).

** *Porella latifolia* J.S.Lou et Q.Li, Acta Phytotax. Sin. 25 (6): 482, 1987 (Lou 1987).

*** *Porella leiboldii* (Lehm.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca leiboldii* Lehm., Nov. Stirp. Pug. 8: 11, 1844 (Lehmann 1844).

** *Porella longifolia* (Steph.) S.Hatt., J. Hattori Bot. Lab. 32: 351, 1969 (Hattori 1969). Bas.: *Madotheca longifolia* Steph., Sp. Hepat. (Stephani) 4: 305, 1910 (Stephani 1910b).

** *Porella madagascariensis* (Nees et Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Lejeunea madagascariensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 57, 1836 (Nees and Montagne 1836).

* *Porella maxima* (Steph.) M.L.So, Syst. Bot. 27 (1): 11, 2002 (So 2002a). Bas.: *Madotheca maxima* Steph., Sp. Hepat. (Stephani) 4: 291, 1910 (Stephani 1910b). [375]

*** *Porella mexicana* (Hampe ex Gottsche, Lindenb. et Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca mexicana* Hampe ex Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 273, 1845 (Gottsche et al. 1845a).

** *Porella montantii* (Steph.) E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 460, 1963 (Jones 1963). Bas.: *Madotheca montantii* Steph., Sp. Hepat. (Stephani) 4: 259, 1910 (Stephani 1910b).

*** *Porella navicularis* (Lehm. et Lindenb.) Pfeiff., Fl. Niederhessen 2: 234, 1855 (Pfeiffer 1855). Bas.: *Jungermannia navicularis* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 38, 1834 (Lehmann 1834).

** *Porella nitens* (Steph.) S.Hatt., Fl. E. Himalaya: 525, 1966 (Hattori 1966c). Bas.: *Madotheca nitens* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 220, 1894 (Stephani 1894b).

** *Porella oblongifolia* S.Hatt., J. Jap. Bot. 19 (7): 200, 1943 (Hattori 1943c). [376]

*** *Porella obtusata* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca obtusata* Taylor, London J. Bot. 5: 380, 1846 (Taylor 1846b).

** *Porella obtusata* var. *macroloba* (Steph.) S.Hatt. et M.X.Zhang, J. Jap. Bot. 60 (11): 325, 1985 (Hattori and Zhang 1985). Bas.: *Madotheca macroloba* Steph., Sp. Hepat. (Stephani) 4: 292, 1910 (Stephani 1910b).

** *Porella obtusiloba* S.Hatt., J. Hattori Bot. Lab. 33: 69, 1970 (Hattori 1970).

** *Porella perrottetiana* (Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 408, 1877 (Trevisan 1877). Bas.: *Madotheca perrottetiana* Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 15, 1842 (Montagne 1842b).

** *Porella perrottetiana* var. *angustifolia* Pócs, J. Hattori Bot. Lab. 31: 75, 1968 (Pócs 1968).

** *Porella perrottetiana* var. *ciliatodentata* (P.C.Chen et P.C.Wu) S.Hatt., J. Hattori Bot. Lab. 30: 144, 1967 (Hattori 1967). Bas.: *Porella ciliatodentata* P.C.Chen et P.C.Wu, Obs. fl. Hwangs.: 8, 1965 (Chen and Wu 1965).

** *Porella perrottetiana* var. *triciliata* (Steph.) Pócs, J. Hattori Bot. Lab. 31: 75, 1968 (Pócs 1968). Bas.: *Madotheca triciliata* Steph., Sp. Hepat. (Stephani) 4: 308, 1910 (Stephani 1910b).

*** *Porella pinnata* L., Sp. Pl. 1: 1106, 1753 (Linnaeus 1753).

** *Porella planifolia* J.S.Lou, Coll. Pap. Quing-Zang Huang-Den 1: 277, 1983 (Lou and Wang 1983).

*** *Porella platyphylla* (L.) Pfeiff., Fl. Niederhessen 2: 234, 1855 (Pfeiffer 1855). Bas.: *Jungermannia platyphylla* L., Sp. Pl. 1: 1134, 1753 (Linnaeus 1753).

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375 *Porella maxima* was accepted by So (2002a), but it was treated as conspecific with *Porella viridissima* in Hattori (1976f, 1986d). This synonymy is doubtful and further study is necessary to clarify the status.

376 *Porella oblongifolia* is closely related to *Porella densifolia* (Hentschel et al. 2007b).

*** *Porella platyphylloidea* (Schwein.) Lindb., Morgonbladet (Helsinki) 1876 (287, 10 Dec.): 1, 1876 (Lindberg 1876c). Bas.: *Jungermannia platyphylloidea* Schwein., Spec. Fl. Amer. Crypt.: 9, 1821 (Schweinitz 1821).

** *Porella plicata* J.S.Lou, Acta Phytotax. Sin. 18 (1): 119, 1980 (Lou and Wu 1980).

** *Porella plumosa* (Mitt.) Parihar, Univ. Allahabad Stud., Bot. 1961-2: 17, 1962 (Parihar 1962). Bas.: *Madotheca plumosa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 108, 1860 [1861] (Mitten 1860c).

** *Porella prolixa* (Gottsche) E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 460, 1963 (Jones 1963). Bas.: *Madotheca prolixa* Gottsche, Sp. Hepat. (Stephani) 4: 260, 1910 (Stephani 1910b).

** *Porella pulcherrima* Herzog et S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 12 (1): 34, 1986 (Hattori 1986a).

*** *Porella reflexa* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 408, 1877 (Trevisan 1877). Bas.: *Jungermannia reflexa* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 5, 1833 (Lehmann 1833).

** *Porella revoluta* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Jungermannia revoluta* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 18, 1832 (Lehmann 1832).

** *Porella revoluta* var. *propinqua* (C.Massal.) S.Hatt., J. Hattori Bot. Lab. 30: 148, 1967 (Hattori 1967). Bas.: *Madotheca propinqua* C.Massal., Hepat. Shen-si: 27, 1897 (Massalongo 1897).

** *Porella roellii* Steph., Bot. Centralbl. 45: 203, 1891 (Röll 1891).

*** *Porella saccata* M.L.So, New Zealand J. Bot. 43 (1): 302, 2005 (So 2005b).

** *Porella sichuanensis* S.Hatt. et K.C.Chang, Bull. Bot. Res., Harbin 8 (2): 43, 1988 (Chang 1988).

** *Porella spinulosa* (Steph.) S.Hatt., J. Hattori Bot. Lab. 33: 74, 1970 (Hattori 1970). Bas.: *Madotheca spinulosa* Steph., Sp. Hepat. (Stephani) 6: 529, 1924 (Stephani 1924).

*** *Porella squamulifera* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca squamulifera* Taylor, London J. Bot. 5: 378, 1846 (Taylor 1846b).

** *Porella stephaniana* (C.Massal.) S.Hatt., J. Hattori Bot. Lab. 5: 81, 1951 (Hattori 1951b). Bas.: *Madotheca stephaniana* C.Massal., Hepat. Shen-si: 23, 1897 (Massalongo 1897). [377]

** *Porella subdentata* (Mitt.) Steph., Hedwigia 30 (5): 203, 1891 (Stephani 1891a). Bas.: *Madotheca subdentata* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 167, 1863 (Mitten 1863).

** *Porella subdentata* var. *camerunensis* E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 456, 1963 (Jones 1963).

** *Porella subobtusa* (Steph.) S.Hatt., J. Jap. Bot. 20: 111, 1944 (Hattori 1944c). Bas.: *Madotheca subobtusa* Steph., Sp. Hepat. (Stephani) 4: 311, 1910 (Stephani 1910b).

** *Porella subparaphyllina* J.S.Lou, Acta Phytotax. Sin. 25 (6): 483, 1987 (Lou 1987).

377 *Porella stephaniana* is closely related to *Porella densifolia* (Hentschel et al. 2007b).

*** *Porella subsquarrosa* (Nees et Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Lejeunea subsquarrosa* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 57, 1836 (Nees and Montagne 1836).

*** *Porella swailsii* Grolle, J. Bryol. 10 (3): 270, 1979 (Grolle 1979b). *Nom. nov. pro Madotheca apiculata* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 197, 1955 (Herzog 1955).

*** *Porella swartziana* (F.Weber) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Jungermannia swartziana* F.Weber, Hist. Musc. Hepat. Prodr.: 18, 1815 (Weber 1815).

** *Porella triquetra* (Steph.) E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 454, 1963 (Jones 1963). Bas.: *Madotheca triquetra* Steph., Bot. Jahrb. Syst. 20 (3): 321, 1895 (Stephani 1895a).

** *Porella truncata* J.S.Lou, Acta Phytotax. Sin. 18 (1): 119, 1980 (Lou and Wu 1980).

** *Porella ulophylla* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 92, 1944 (Hattori 1944d). Bas.: *Madotheca ulophylla* Steph., Bull. Herb. Boissier 5 (2): 97, 1897 (Stephani 1897b).

** *Porella undatorevoluta* J.S.Lou, Acta Phytotax. Sin. 25 (6): 485, 1987 (Lou 1987).

** *Porella urceolata* S.Hatt., J. Hattori Bot. Lab. 33: 66, 1970 (Hattori 1970).

** *Porella urogea* (C.Massal.) S.Hatt., J. Hattori Bot. Lab. 32: 349, 1969 (Hattori 1969). Bas.: *Madotheca urogea* C.Massal., Hepat. Shen-si: 28, 1897 (Massalongo 1897).

** *Porella vallis-gratiae* (Gottsche) E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 450, 1963 (Jones 1963). Bas.: *Madotheca vallis-gratiae* Gottsche, Sp. Hepat. (Stephani) 4: 261, 1910 (Stephani 1910b).

** *Porella variabilis* (Kashyap et R.S.Chopra) Parihar, Univ. Allahabad Stud., Bot. 1961-2: 17, 1962 (Parihar 1962). Bas.: *Madotheca variabilis* Kashyap et R.S.Chopra, Liverworts W. Himal. 2: 33, 1932 (Kashyap and Chopra 1932).

** *Porella vernicosa* Lindb., Acta Soc. Sci. Fenn. 10: 223, 1872 [1873] (Lindberg 1872b).

** *Porella viridissima* (Mitt.) Grolle, J. Hattori Bot. Lab. 36: 83, 1972 [1973] (Grolle and Schultze-Motel 1972). Bas.: *Madotheca viridissima* Mitt., Fl. vit.: 411, 1871 [1873] (Mitten 1871).

** *Porella wataugensis* (Sull.) Underw. ex M.Howe, Bull. Torrey Bot. Club 24 (11): 519, 1897 (Howe 1897b). Bas.: *Madotheca wataugensis* Sull., Musc. Hepat. U.S.: 700, 1856 (Sullivant 1856).

Radulineae R.M.Schust.

*** Radulaceae Müll.Frib.

by M.A.M. Renner

The treatment of Radulaceae follows Devos et al. (2011). Taxonomic and nomenclatural notes can also be found in Renner et al. (2013b, 2014).

*** ***Radula* Dumort.**, Commentat. Bot. (Dumortier): 112, 1822 (Dumortier 1822) nom. conserv.

*** **subg. *Amentuloradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp.**, Taxon 60 (6): 1630, 2011 (Devos et al. 2011).
*** *Radula amentulosa* Mitt., Bonplandia 9 (24): 367, 1861 (Mitten 1861).
*** *Radula aneurismalis* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 262, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia aneurismalis* Hook.f. et Taylor, London J. Bot. 4: 86, 1845 (Hooker and Taylor 1845).
** *Radula ceylanica* K.Yamada, J. Jap. Bot. 50 (12): 373, 1975 (Yamada 1975b).
*** *Radula fissifolia* Steph., Sp. Hepat. (Stephani) 6: 507, 1924 (Stephani 1924).
*** *Radula formosa* (C.F.W.Meissn. ex Spreng.) Nees, Syn. Hepat. 2: 258, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia formosa* C.F.W.Meissn. ex Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (2): 325, 1827 (Sprengel 1827b).
*** *Radula helix* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 260, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia helix* Hook.f. et Taylor, London J. Bot. 3: 475, 1844 (Hooker and Taylor 1844b).
*** *Radula hicksiae* K.Yamada, Cryptog. Bryol. Lichénol. 5 (1/2): 191, 1984 (Yamada 1984a).
*** *Radula iwatsukii* K.Yamada, J. Hattori Bot. Lab. 45: 275, 1979 (Yamada 1979b).
** *Radula morobeana* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 358, 1989 (Yamada and Piippo 1989).
** *Radula multiamentula* E.A.Hodgs., Rec. Domin. Mus. 4 (11): 122, 1962 (Hodgson 1962a).
*** *Radula ornata* E.A.Br. et Pócs, Telopea 9 (3): 436, 2001 (Brown and Pócs 2001).
*** *Radula physoloba* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 255, 1843 (Montagne 1843).
*** *Radula pseudoscripta* M.A.M.Renner, New Zealand J. Bot. 44 (3): 340, 2006 (Renner 2006).
** *Radula queenslandica* K.Yamada, J. Hattori Bot. Lab. 62: 192, 1987 (Yamada 1987).
*** *Radula scariosa* Mitt., Bonplandia 9 (24): 367, 1861 (Mitten 1861).
*** *Radula splendida* M.A.M.Renner et Devos, Nova Hedwigia 90 (1/2): 113, 2010 (Renner et al. 2010a).
* *Radula squarrosa* K.Yamada, J. Jap. Bot. 65 (1): 1, 1990 (Yamada 1990). [378]
*** *Radula thiersiae* K.Yamada, J. Hattori Bot. Lab. 62: 198, 1987 (Yamada 1987).
*** *Radula uvifera* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 258, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia uvifera* Hook.f. et Taylor, London J. Bot. 3: 292 [392], 1844 (Hooker and Taylor 1844a).
* *Radula vagans* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 85, 1911 (Stephani 1911b).
** *Radula verrucosa* K.Yamada, J. Hattori Bot. Lab. 45: 277, 1979 (Yamada 1979b).

378 *Radula squarrosa* is probably conspecific with *Radula morobeana*.

*** **subg. *Cladoradula* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 315, 1885 (Spruce 1885).
** *Radula auriculata* Steph., Bull. Herb. Boissier 5 (2): 105, 1897 (Stephani 1897b).
* *Radula bipinnata* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 166, 1863 (Mitten 1863). [379]
*** *Radula boryana* (F.Weber) Nees ex Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 13, 1842 (Montagne 1842b). Bas.: *Jungermannia boryana* F.Weber, Hist. Musc. Hepat. Prodr.: 58, 1815 (Weber 1815).
*** *Radula campanigera* Mont., London J. Bot. 3: 634, 1844 (Montagne 1844a).
*** *Radula campanigera* subsp. *obiensis* (S.Hatt.) K.Yamada, J. Hattori Bot. Lab. 45: 309, 1979 (Yamada 1979b). Bas.: *Radula obiensis* S.Hatt., Bull. Tokyo Sci. Mus. 11: 83, 1944 (Hattori 1944d).
** *Radula chinensis* Steph., Nuovo Giorn. Bot. Ital. (n.ser.) 13 (4): 355, 1906 (Levier 1906).
*** *Radula gottscheana* Taylor, London J. Bot. 5: 374, 1846 (Taylor 1846b).
*** *Radula perrottetii* Gottsche, Hedwigia 23 (10): 154, 1884 (Stephani 1884a).
** *Radula tenax* Lindb., Acta Soc. Sci. Fenn. 10: 492, 1875 (Lindberg 1875).

*** **subg. *Dactyloradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp.**, Taxon 60 (6): 1630, 2011 (Devos et al. 2011).
*** *Radula brunnea* Steph., Sp. Hepat. (Stephani) 4: 232, 1910 (Stephani 1910b).

*** **subg. *Metaradula* R.M.Schust.**, Phytologia 56 (2): 69, 1984 (Schuster 1984).
** *Radula acuminata* Steph., Sp. Hepat. (Stephani) 4: 230, 1910 (Stephani 1910b). [380]
** *Radula aguirrei* R.M.Schust., Phytotaxa 202 (1): 70, 2015 (Söderström et al. 2015c). Based on: *Radula aguirrei* R.M.Schust., J. Hattori Bot. Lab. 70: 56, 1991 (Schuster 1991a), *nom. inval.*
** *Radula anisotoma* M.A.M.Renner, PhytoKeys 27: 30, 2013 (Renner et al. 2013a).
*** *Radula assamica* Steph., Hedwigia 23 (10): 151, 1884 (Stephani 1884a).
*** *Radula australiana* K.Yamada, J. Hattori Bot. Lab. 51: 323, 1982 (Yamada 1982a).
*** *Radula buccinifera* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 261, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia buccinifera* Hook.f. et Taylor, London J. Bot. 3: 580, 1844 (Hooker and Taylor 1844c).
*** *Radula demissa* M.A.M.Renner, PhytoKeys 27: 53, 2013 (Renner et al. 2013a).
** *Radula evansii* Castle, Ann. Bryol. 11: 37, 1938 (Castle 1938).
** *Radula flaccida* Lindenb. et Gottsche, Syn. Hepat. 5: 726, 1847 (Gottsche et al. 1847).
** *Radula flaccida* var. *brachycalyx* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 321, 1885 (Spruce 1885).
*** *Radula forficata* M.A.M.Renner, Austral. Syst. Bot. 26 (4): 307, 2013 (Renner et al. 2013c).
** *Radula grevilleana* Taylor, Ann. Mag. Nat. Hist. 20 (135): 380, 1847 (Taylor 1847a).

379 *Radula bipinnata* is distinct from *Radula boryana* according to molecular evidence (Devos et al. 2011).
380 *Radula acuminata* may be conspecific with *Radula tjibodensis*.

*** *Radula imposita* M.A.M.Renner, PhytoKeys 27: 65, 2013 (Renner et al. 2013a).
** *Radula jovetiana* K.Yamada, Cryptog. Bryol. Lichénol. 5 (1/2): 193, 1984 (Yamada 1984a).
** *Radula kilgourii* M.A.M.Renner, Austral. Syst. Bot. 26 (4): 313, 2013 (Renner et al. 2013c).
** *Radula loriana* Castle, J. Hattori Bot. Lab. 21: 6, 1959 (Castle 1959).
*** *Radula mammosa* Spruce, Mem. Torrey Bot. Club 1 (3): 127, 1890 (Spruce 1890).
*** *Radula mittenii* Steph., Hedwigia 23 (10): 148, 1884 (Stephani 1884a).
*** *Radula myriopoda* M.A.M.Renner, Austral. Syst. Bot. 26 (4): 323, 2013 (Renner et al. 2013c).
*** *Radula notabilis* M.A.M.Renner, PhytoKeys 27: 77, 2013 (Renner et al. 2013a).
** *Radula nymannii* Steph., Sp. Hepat. (Stephani) 4: 229, 1910 (Stephani 1910b).
** *Radula protensa* Lindenb., Bot. Zeitung (Berlin) 6 (25): 462, 1848 (Meissner 1848).
** *Radula protensa* var. *erectilobula* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 247, 1893 (Schiffner 1893a).
** *Radula pseudoflaccida* E.W.Jones, J. Bryol. 9 (4): 501, 1977 [1978] (Jones 1977).
** *Radula psychosis* M.A.M.Renner, Austral. Syst. Bot. 26 (4): 328, 2013 (Renner et al. 2013c).
*** *Radula ratkowskiana* K.Yamada, J. Jap. Bot. 59 (3): 94, 1984 (Yamada 1984b).
*** *Radula robinsonii* Steph., Sp. Hepat. (Stephani) 4: 214, 1910 (Stephani 1910b).
** *Radula stenocalyx* Mont., Ann. Sci. Nat. Bot. (sér. 4) 3 (5): 315, 1855 (Montagne 1855).
*** *Radula strangulata* Hook.f. et Taylor, London J. Bot. 5: 377, 1846 (Taylor 1846b).
* *Radula tjibodensis* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 7 (1): 53, 1888 (Goebel 1888). [381]
*** *Radula ventricosa* Steph., Sp. Hepat. (Stephani) 4: 187, 1910 (Stephani 1910b).
*** *Radula yanoella* R.M.Schust., Phytologia 56 (2): 72, 1984 (Schuster 1984).

*** **subg. *Odontoradula* K.Yamada**, J. Hattori Bot. Lab. 45: 209, 1979 (Yamada 1979b).
** *Radula acuta* Mitt., Fl. vit.: 410, 1871 [1873] (Mitten 1871).
** *Radula allisonii* Castle, Rev. Bryol. Lichénol. 31 (3/4): 148, 1962 [1963] (Castle 1962).
** *Radula amoena* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 192, 1931 (Herzog 1931a).
** *Radula anceps* Sande Lac., Ned. Kruidk. Arch. 3: 419, 1854 [1855] (Sande Lacoste 1854).
* *Radula crenulata* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 21, 1890 (Schiffner 1890). [382]
*** *Radula cuspidata* Steph., Sp. Hepat. (Stephani) 4: 156, 1910 (Stephani 1910b).
*** *Radula decora* Gottsche, Hedwigia 23 (10): 145, 1884 (Stephani 1884a).

381 *Radula tjibodensis* is a doubtful taxon. The type specimen has not been found.

382 *Radula crenulata* is conspecific with *Radula acuta* in So (2006) and possibly conspecific with *Radula apiculata* in Yamada and Piippo (1989), but differs morphologically from both and needs to be further studied.

** *Radula emarginata* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 352, 1989 (Yamada and Piippo 1989).
** *Radula kojana* Steph., Bull. Herb. Boissier 5 (2): 105, 1897 (Stephani 1897b).
*** *Radula lacerata* Steph., Rev. Bryol. 35 (2): 33, 1908 (Stephani 1908l).
*** *Radula novae-hollandiae* Hampe, Nov. Stirp. Pug. 7: 24, 1838 (Lehmann 1838).
*** *Radula ocellata* K.Yamada, J. Hattori Bot. Lab. 45: 209, 1979 (Yamada 1979b).
*** *Radula plicata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 154, 1854 (Mitten 1854).
** *Radula pugioniformis* M.A.M.Renner, PhytoKeys 27: 84, 2013 (Renner et al. 2013a).
*** *Radula pulchella* Mitt., Hedwigia 23 (10): 149, 1884 (Stephani 1884a).
*** *Radula retroflexa* Taylor, London J. Bot. 5: 378, 1846 (Taylor 1846b).
*** *Radula tasmanica* Steph., Sp. Hepat. (Stephani) 4: 212, 1910 (Stephani 1910b).
*** *Radula weymouthiana* Steph., Sp. Hepat. (Stephani) 4: 190, 1910 (Stephani 1910b).

*** **subg. *Radula***
*** *Radula acutiloba* Steph., Hedwigia 28 (4): 271, 1889 (Stephani 1889c). [383]
** *Radula appressa* Mitt., Philos. Trans. 168: 397, 1879 (Mitten 1879).
*** *Radula aquilegia* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 260, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia aquilegia* Hook.f. et Taylor, London J. Bot. 3: 291 [391], 1844 (Hooker and Taylor 1844a).
** *Radula australis* Austin, Bot. Bull. (Hanover) 1 (7): 32, 1876 (Austin 1876b).
** *Radula borneensis* Steph., Sp. Hepat. (Stephani) 4: 209, 1910 (Stephani 1910b).
** *Radula caduca* K.Yamada, J. Hattori Bot. Lab. 45: 225, 1979 (Yamada 1979b).
*** *Radula carringtonii* J.B.Jack, Flora 64 (25): 385, 1881 (Jack 1881).
*** *Radula complanata* (L.) Dumort., Syll. Jungerm. Europ.: 38, 1831 (Dumortier 1831). Bas.: *Jungermannia complanata* L., Sp. Pl. 1: 1133, 1753 (Linnaeus 1753).
** *Radula constricta* Steph., Sp. Hepat. (Stephani) 6: 506, 1924 (Stephani 1924).
** *Radula evelynae* K.Yamada, J. Jap. Bot. 50 (4): 115, 1975 (Yamada 1975a).
** *Radula fendleri* Gottsche, Hedwigia 23 (10): 146, 1884 (Stephani 1884a). [384]
*** *Radula grandis* Steph., J. Linn. Soc., Bot. 29 (201): 271, 1892 (Stephani 1892b).
** *Radula japonica* Gottsche, Hedwigia 23 (10): 152, 1884 (Stephani 1884a).
** *Radula javanica* Gottsche, Syn. Hepat. 2: 257, 1845 (Gottsche et al. 1845a).
*** *Radula jonesii* Bouman, Dirkse et K.Yamada, J. Bryol. 15 (1): 161, 1988 (Bouman et al. 1988).
*** *Radula lindenbergiana* Gottsche ex C.Hartm., Handb. Skand. fl. (ed.9): 98, 1864 (Hartman 1864).
** *Radula madagascariensis* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 349, 1882 (Gottsche 1882).
** *Radula marojezica* E.W.Jones, J. Bryol. 17 (2): 307, 1992 (Jones 1992).

383 *Radula acutiloba* is tentatively placed in subg. *Radula*. The specimen labelled *Radula acutiloba* in Devos et al. (2011) was misidentified and should be *Radula australiana*.

384 *Radula fendleri* may be conspecific with *Radula madagascariensis*.

* *Radula multiflora* Gottsche ex Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 20, 1890 (Schiffner 1890). [385]
** *Radula novoguineensis* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 360, 1989 (Yamada and Piippo 1989).
** *Radula obconica* Sull., Manual (Gray): 688, 1848 (Gray 1848).
** *Radula obtusiloba* Steph., Bull. Herb. Boissier 5 (2): 105, 1897 (Stephani 1897b).
** *Radula obtusiloba* subsp. *polyclada* (A.Evans) S.Hatt., J. Hattori Bot. Lab. 29: 275, 1966 (Hattori 1966d). Bas.: *Radula polyclada* A.Evans, Bull. Torrey Bot. Club 41 (12): 607, 1914 [1915] (Evans 1914a).
* *Radula oceania* Castle, Rev. Bryol. Lichénol. 33 (3/4): 390, 1965 (Castle 1965). [386]
** *Radula oreopsis* M.A.M.Renner, Telopea 17: 123, 2014 (Renner 2014).
** *Radula portoricensis* Steph., Hedwigia 27 (11/12): 298, 1888 (Stephani 1888c).
*** *Radula prolifera* Arnell, Ark. Bot. 13 (2): 12, 1913 (Arnell 1913).
*** *Radula quadrata* Gottsche, Syn. Hepat. 2: 255, 1845 (Gottsche et al. 1845a).
*** *Radula reflexa* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 255, 1843 (Montagne 1843).
** *Radula sharpii* K.Yamada, J. Jap. Bot. 60 (9): 260, 1985 (Yamada 1985a).
** *Radula sumatrana* Steph., Sp. Hepat. (Stephani) 4: 204, 1910 (Stephani 1910b).
** *Radula tokiensis* Steph., Hedwigia 23 (10): 150, 1884 (Stephani 1884a).
*** *Radula van-zantenii* K.Yamada, J. Hattori Bot. Lab. 45: 260, 1979 (Yamada 1979b).
** *Radula varilobula* Castle, J. Hattori Bot. Lab. 21: 19, 1959 (Castle 1959).
*** *Radula wichurae* Steph., Sp. Hepat. (Stephani) 4: 168, 1910 (Stephani 1910b).

*** **subg. *Volutoradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp.**, Taxon 60 (6): 1629, 2011 (Devos et al. 2011).
** *Radula ankefinensis* Gottsche, Hedwigia 23 (10): 152, 1884 (Stephani 1884a).
** *Radula antilleana* Castle, J. Hattori Bot. Lab. 21: 48, 1959 (Castle 1959).
** *Radula comorensis* Steph., Hedwigia 23 (9): 132, 1884 (Stephani 1884c).
** *Radula cubensis* K.Yamada, J. Hattori Bot. Lab. 54: 241, 1983 (Yamada 1983).
** *Radula diversifolia* Steph., Sp. Hepat. (Stephani) 4: 212, 1910 (Stephani 1910b).
*** *Radula eggersii* K.Yamada, J. Hattori Bot. Lab. 82: 339, 1997 (Yamada 1997).
** *Radula episcia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 318, 1885 (Spruce 1885).
** *Radula floridana* Castle, Rev. Bryol. Lichénol. 36 (1/2): 1, 1968 [1969] (Castle 1968).
** *Radula fulvifolia* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 261, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia fulvifolia* Hook.f. et Taylor, London J. Bot. 4: 85, 1845 (Hooker and Taylor 1845).
*** *Radula hastata* Steph., Sp. Hepat. (Stephani) 4: 163, 1910 (Stephani 1910b).
* *Radula holstiana* Steph., Bot. Jahrb. Syst. 20 (3): 320, 1895 (Stephani 1895a).

385 *Radula multiflora* is similar to, and may be conspecific with *Radula reflexa*, but it was accepted by Renner and de Lange (2009).

386 *Radula oceania* was considered conspecific with *Radula javanica* by So (2006), but molecular data does not support it (Renner 2014).

*** *Radula holtii* Spruce, J. Bot. 25: 209, 1887 (Spruce 1887b).
** *Radula husnotii* Castle, J. Hattori Bot. Lab. 21: 45, 1959 (Castle 1959).
** *Radula inflexa* Gottsche, Hedwigia 23 (10): 148, 1884 (Stephani 1884a).
** *Radula kegelii* Gottsche ex Steph., Hedwigia 23 (10): 152, 1884 (Stephani 1884a).
** *Radula macroloba* Steph., Bull. Soc. Roy. Bot. Belgique 31: 121, 1892 (Stephani 1892c).
** *Radula mazarunensis* K.Yamada, Trop. Bryol. 1: 38, 1989 (Gradstein and Florschütz-de Waard 1989).
** *Radula mexicana* Lindenb. et Gottsche, Mexik. Leverm.: 150, 1863 (Gottsche 1863).
** *Radula microloba* Gottsche, Syn. Hepat. 2: 259, 1845 (Gottsche et al. 1845a).
** *Radula neotropica* Castle, J. Hattori Bot. Lab. 21: 31, 1959 (Castle 1959).
*** *Radula nudicaulis* Steph., Sp. Hepat. (Stephani) 4: 174, 1910 (Stephani 1910b).
* *Radula nudicaulis* var. *delicatula* P.Allorge et V.Allorge, Rev. Bryol. Lichénol. 19 (1/2): 106, 1950 (Allorge and Allorge 1950).
** *Radula pocsii* K.Yamada, J. Hattori Bot. Lab. 54: 245, 1983 (Yamada 1983).
** *Radula recubans* Taylor, London J. Bot. 5: 376, 1846 (Taylor 1846b).
** *Radula saccatiloba* Steph., Hedwigia 23 (8): 129, 1884 (Stephani 1884b).
** *Radula schaefer-verwimpii* K.Yamada, J. Jap. Bot. 65 (1): 3, 1990 (Yamada 1990).
** *Radula schofieldiana* K.Yamada, J. Hattori Bot. Lab. 82: 337, 1997 (Yamada 1997).
** *Radula stipatiflora* Steph., Sp. Hepat. (Stephani) 4: 159, 1910 (Stephani 1910b).
** *Radula striata* Mitt., Hedwigia 23 (10): 155, 1884 (Stephani 1884a).
** *Radula subinflata* Lindenb. et Gottsche, Syn. Hepat. 5: 724, 1847 (Gottsche et al. 1847).
** *Radula sullivantii* Austin, Hepat. bor.-amer.: 22, 1873 (Austin 1873).
** *Radula tenera* Mitt., Hedwigia 23 (10): 149, 1884 (Stephani 1884a).
*** *Radula voluta* Taylor, Syn. Hepat. 2: 255, 1845 (Gottsche et al. 1845a).

Incertae sedis

*** *Radula acutangula* Steph., Bull. Herb. Boissier 5 (10): 848, 1897 (Stephani 1897c).
** *Radula angulata* Steph., Hedwigia 23 (8): 114, 1884 (Stephani 1884b).
** *Radula bogotensis* Steph., Hedwigia 23 (8): 115, 1884 (Stephani 1884b).
*** *Radula bolanderi* Gottsche, Hedwigia 23 (10): 145, 1884 (Stephani 1884a).
** *Radula boninensis* Furuki et K.Yamada, J. Jap. Bot. 61 (10): 312, 1986 (Furuki and Yamada 1986).
** *Radula brasilica* K.Yamada, J. Hattori Bot. Lab. 74: 35, 1993 (Yamada 1993).
** *Radula caespitosa* Steph., Hedwigia 27 (3/4): 107, 1888 (Stephani 1888d).
** *Radula campanulata* Lindenb. et Gottsche, Syn. Hepat. 2: 256, 1845 (Gottsche et al. 1845a).
** *Radula castlei* Grolle, Bryologist 73 (4): 662, 1970 (Grolle 1970a).
*** *Radula cavifolia* Hampe ex Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 259, 1845 (Gottsche et al. 1845a).
** *Radula cochabambaensis* K.Yamada, J. Hattori Bot. Lab. 74: 37, 1993 (Yamada 1993).
** *Radula conferta* Lindenb. et Gottsche, Syn. Hepat. 5: 729, 1847 (Gottsche et al. 1847).
*** *Radula cordata* Mitt., Fl. vit.: 410, 1871 [1873] (Mitten 1871).

** *Radula costaricensis* Gottsche, J. Bot. 15: 226, 1877 (Polakowski 1877).
*** *Radula curvilobula* M.L.So, J. Hattori Bot. Lab. 98: 176, 2005 (So 2005a).
* *Radula decurrens* Mitt., Fl. vit.: 410, 1871 [1873] (Mitten 1871). [387]
** *Radula densifolia* Castle, Rev. Bryol. Lichénol. 33 (3/4): 385, 1965 (Castle 1965).
** *Radula diaphana* K.I.Goebel, Organogr. Pfl., ed. 2, 2 (1): 677, 1915 (Goebel 1915).
** *Radula dolabrata* K.Yamada, J. Jap. Bot. 60 (9): 257, 1985 (Yamada 1985a).
** *Radula elliottii* Castle, J. Hattori Bot. Lab. 21: 12, 1959 (Castle 1959).
** *Radula falcata* Steph., Hedwigia 23 (8): 115, 1884 (Stephani 1884b).
** *Radula fauriana* Steph., Sp. Hepat. (Stephani) 4: 207, 1910 (Stephani 1910b).
** *Radula fernandezana* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 84, 1911 (Stephani 1911b).
** *Radula flavifolia* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 259, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia flavifolia* Hook.f. et Taylor, London J. Bot. 3: 476, 1844 (Hooker and Taylor 1844b).
** *Radula fujitae* Furuki, Bryol. Res. 9 (5): 143, 2007 (Furuki 2007).
** *Radula galapagona* Steph., Sp. Hepat. (Stephani) 4: 176, 1910 (Stephani 1910b).
** *Radula gedena* Gottsche, Hedwigia 23 (10): 146, 1884 (Stephani 1884a).
** *Radula gracilis* Mitt., Hedwigia 23 (10): 147, 1884 (Stephani 1884a).
** *Radula gradsteinii* K.Yamada, Trop. Bryol. 1: 37, 1989 (Gradstein and Florschütz-de Waard 1989).
** *Radula grandifolia* Steph., Sp. Hepat. (Stephani) 4: 184, 1910 (Stephani 1910b).
** *Radula grollei* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 379, 1989 (Yamada and Piippo 1989).
** *Radula guyanensis* K.Yamada, Trop. Bryol. 1: 38, 1989 (Gradstein and Florschütz-de Waard 1989).
** *Radula hattorii* K.Yamada, J. Jap. Bot. 60 (9): 259, 1985 (Yamada 1985a).
*** *Radula hawaiica* M.L.So, J. Hattori Bot. Lab. 98: 177, 2005 (So 2005a).
* *Radula hedingeri* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 7 (1): 51, 1888 (Goebel 1888).
*** *Radula inouei* K.Yamada, J. Hattori Bot. Lab. 45: 262, 1979 (Yamada 1979b).
*** *Radula involvens* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 325, 1885 (Spruce 1885).
*** *Radula iwatsukiana* K.Yamada, J. Hattori Bot. Lab. 58: 114, 1985 (Yamada 1985b).
*** *Radula jamaicensis* Pearson, Ann. Bryol. 4: 103, 1931 (Pearson 1931b).
** *Radula jamesonii* Taylor, London J. Bot. 5: 375, 1846 (Taylor 1846b).
** *Radula kinabaluensis* K.Yamada, Misc. Bryol. Lichenol. 6 (6): 97, 1973 (Yamada 1973b).
*** *Radula kitagawae* K.Yamada, J. Hattori Bot. Lab. 58: 116, 1985 (Yamada 1985b).
** *Radula koponenii* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 364, 1989 (Yamada and Piippo 1989).
** *Radula kurzii* Steph., Hedwigia 23 (10): 153, 1884 (Stephani 1884a).
** *Radula laxiramea* Steph., Sp. Hepat. (Stephani) 4: 178, 1910 (Stephani 1910b).

387 *Radula decurrens* may be conspecific with *Radula reflexa*.

** *Radula leiboldii* Steph., Hedwigia 23 (8): 116, 1884 (Stephani 1884b).
** *Radula lewisii* K.Yamada, J. Hattori Bot. Lab. 74: 39, 1993 (Yamada 1993).
*** *Radula ligula* Steph., Sp. Hepat. (Stephani) 4: 228, 1910 (Stephani 1910b).
*** *Radula lingulata* Gottsche, Syn. Hepat. 2: 260, 1845 (Gottsche et al. 1845a).
** *Radula longiloba* K.Yamada, J. Hattori Bot. Lab. 54: 243, 1983 (Yamada 1983).
* *Radula longispica* Steph., Sp. Hepat. (Stephani) 4: 183, 1910 (Stephani 1910b). [388]
*** *Radula marginata* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 261, 1845 (Gottsche et al. 1845a). *Nom. nov. pro Jungermannia marginata* Hook.f. et Taylor, London J. Bot. 3: 566, 1844 (Hooker and Taylor 1844a), *nom. illeg.*
*** *Radula mauiensis* M.L.So, J. Hattori Bot. Lab. 98: 178, 2005 (So 2005a).
** *Radula microlobula* Castle, J. Hattori Bot. Lab. 21: 35, 1959 (Castle 1959).
** *Radula minutilobula* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 377, 1989 (Yamada and Piippo 1989).
** *Radula mizutanii* K.Yamada, J. Jap. Bot. 48 (5): 134, 1973 (Yamada 1973a).
*** *Radula nigra* Pearson, J. Linn. Soc., Bot. 46 (305): 31, 1922 (Pearson 1922b).
** *Radula nilgiriensis* Udar et D.Kumar, J. Indian Bot. Soc. 61: 177, 1982 (Udar and Kumar 1982b).
** *Radula norrisii* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 374, 1989 (Yamada and Piippo 1989).
** *Radula novivrieseana* K.Yamada, J. Hattori Bot. Lab. 51: 326, 1982 (Yamada 1982a).
*** *Radula novocaledonica* Hürl. et K.Yamada, J. Jap. Bot. 54 (8): 238, 1979 (Hürlimann and Yamada 1979).
*** *Radula novocaledoniensis* K.Yamada, J. Hattori Bot. Lab. 58: 120, 1985 (Yamada 1985b).
** *Radula obovata* Castle, J. Hattori Bot. Lab. 21: 16, 1959 (Castle 1959).
** *Radula obscura* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 107, 1860 [1861] (Mitten 1860c).
** *Radula okamurana* Steph., Sp. Hepat. (Stephani) 4: 209, 1910 (Stephani 1910b).
** *Radula onraedtii* K.Yamada, Misc. Bryol. Lichenol. 8 (6): 113, 1979 (Yamada 1979a).
** *Radula opaciuscula* (Spruce) Castle, J. Hattori Bot. Lab. 21: 22, 1959 (Castle 1959). Bas.: *Radula episcia* var. *opaciuscula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 319, 1885 (Spruce 1885).
** *Radula ovalilobula* K.Yamada, J. Hattori Bot. Lab. 45: 257, 1979 (Yamada 1979b).
** *Radula oyamensis* Steph., Hedwigia 23 (10): 149, 1884 (Stephani 1884a).
* *Radula paganii* Castle, J. Hattori Bot. Lab. 21: 33, 1959 (Castle 1959). [389]
*** *Radula pallens* (Sw.) Nees ex Mont., Voy. Amér. Mérid. 7 (2): 71, 1839 (Montagne 1839a). Bas.: *Jungermannia pallens* Sw., Prodr. (Swartz): 143, 1788 (Swartz 1788).
*** *Radula pandei* Udar et Dh.Kumar, Lindbergia 9 (2): 133, 1983 (Udar and Kumar 1983b).

388 *Radula longispica* may be conspecific with *Radula javanica*.
389 *Radula paganii* is doubtfully distinct from *Radula neotropica*.

** *Radula patens* K.Yamada, Cryptog. Bryol. Lichénol. 5 (1/2): 197, 1984 (Yamada 1984a).
** *Radula peruviana* K.Yamada, Beih. Nova Hedwigia 88: 79, 1987 (Schultze-Motel and Menzel 1987).
** *Radula philippinensis* K.Yamada, J. Hattori Bot. Lab. 45: 299, 1979 (Yamada 1979b).
* *Radula pinnulata* Mitt., Fl. vit.: 410, 1871 [1873] (Mitten 1871). [390]
** *Radula pseudostachya* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 319, 1885 (Spruce 1885).
** *Radula punctata* Steph., Hedwigia 23 (8): 135, 1884 (Stephani 1884b).
** *Radula pusilla* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 320, 1885 (Spruce 1885).
*** *Radula rhombiloba* Steph., Sp. Hepat. (Stephani) 4: 204, 1910 (Stephani 1910b).
* *Radula rupicola* K.Yamada, J. Hattori Bot. Lab. 58: 124, 1985 (Yamada 1985b). [391]
** *Radula santacruziana* K.Yamada et Gradst., Trop. Bryol. 4: 67, 1991 (Yamada and Gradstein 1991).
** *Radula silvestris* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 349, 1882 (Gottsche 1882).
** *Radula sinskeana* K.Yamada, J. Hattori Bot. Lab. 74: 41, 1993 (Yamada 1993).
** *Radula sinuata* Gottsche ex Steph., Sp. Hepat. (Stephani) 4: 161, 1910 (Stephani 1910b).
* *Radula socorana* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 475, 1947 (Gerola 1947).
** *Radula sonsonensis* Steph., Sp. Hepat. (Stephani) 4: 201, 1910 (Stephani 1910b).
** *Radula stellatogemmipara* C.Gao et Y.H.Wu, Nova Hedwigia 80 (1/2): 239, 2005 (Gao and Wu 2005).
** *Radula subsimplex* Steph., Hedwigia 23 (8): 130, 1884 (Stephani 1884b).
** *Radula subsquarrosa* S.W.Arnell, Ark. Bot. (n.ser.) 4 (1): 15, 1957 (Arnell 1957b).
** *Radula tabularis* Steph., Hedwigia 23 (9): 131, 1884 (Stephani 1884c).
** *Radula taylorii* Steph., Hedwigia 23 (9): 133, 1884 (Stephani 1884c).
** *Radula tectiloba* Steph., Hedwigia 27 (11/12): 298, 1888 (Stephani 1888c).
** *Radula tenuis* K.Yamada, J. Hattori Bot. Lab. 54: 247, 1983 (Yamada 1983).
** *Radula underwoodii* Castle, J. Hattori Bot. Lab. 21: 37, 1959 (Castle 1959).
** *Radula venezuelensis* K.Yamada, Misc. Bryol. Lichenol. 9 (6): 122, 1982 (Yamada 1982b).
*** *Radula vieillardii* Gottsche, Hedwigia 23 (10): 150, 1884 (Stephani 1884a).
** *Radula visianica* C.Massal., Ann. Bot. (Rome) 1 (4): 298, 1904 (Massalongo 1904).
** *Radula vrieseana* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 305, 1864 (Sande Lacoste 1864).
** *Radula wrightii* Castle, J. Hattori Bot. Lab. 21: 15, 1959 (Castle 1959).

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390 *Radula pinnulata* was accepted by Yamada (1979b) and, indirectly through comparison with *Radula norrisii*, by Yamada and Piippo (1989). It is conspecific with *Radula javanica* according to So (2006).

391 *Radula rupicola* may be conspecific with *Radula vieillardii* (So 2006).

** *Radula xalapensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 56, 1836 (Nees and Montagne 1836).

Ptilidiales Schljakov

** Herzogianthaceae Stotler et Crand.-Stotl.

** ***Herzogianthus* R.M.Schust.**, J. Hattori Bot. Lab. 23: 71, 1960 [1961] (Schuster 1960b).
* *Herzogianthus sanguineus* R.M.Schust., Phytologia 56 (7): 457, 1985 (Schuster 1985c). [392]
*** *Herzogianthus vaginatus* (Herzog) R.M.Schust., J. Hattori Bot. Lab. 23: 71, 1960 [1961] (Schuster 1960b). Bas.: *Blepharostoma vaginatum* Herzog, Trans. & Proc. Roy. Soc. New Zealand 65 (3): 355, 1936 (Herzog 1936b).

** Neotrichocoleaceae Inoue

** ***Neotrichocolea* S.Hatt.**, J. Hattori Bot. Lab. 2: 9, 1947 [1948] (Hattori 1947b).
** *Neotrichocolea bissetii* (Mitt.) S.Hatt., J. Hattori Bot. Lab. 2: 10, 1947 [1948] (Hattori 1947b). Bas.: *Mastigophora bissetii* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 200, 1891 (Mitten 1891).

** ***Trichocoleopsis* S.Okamura**, Bot. Mag. (Tokyo) 25 (293): 159, 1911 (Okamura 1911).
** *Trichocoleopsis sacculata* (Mitt.) S.Okamura, Bot. Mag. (Tokyo) 25 (293): 159, 1911 (Okamura 1911). Bas.: *Blepharozia sacculata* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 200, 1891 (Mitten 1891).

*** Ptilidiaceae H.Klinggr.

by L. Söderström

Ptilidiaceae was recently studied molecularly by Kreier et al. (2010) showing the occurrence of a possibly undescribed cryptic species from the Himalayas.

*** ***Ptilidium* Nees**, Naturgesch. Eur. Leberm. 1: 95, 1833 (Nees 1833c).
*** *Ptilidium californicum* (Austin) Pearson, List. Canad. Hepat.: 7, 1890 (Pearson 1890). Bas.: *Lepidozia californica* Austin, Bull. Torrey Bot. Club 6 (3): 19, 1875 (Austin 1875b).

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392 *Herzogianthus sanguineus* is possibly conspecific with *Herzogianthus vaginatus*.

*** *Ptilidium ciliare* (L.) Hampe, Prod. fl. hercyn.: 76, 1836 (Hampe 1836). Bas.: *Jungermannia ciliaris* L., Sp. Pl. 1: 1134, 1753 (Linnaeus 1753).
*** *Ptilidium pulcherrimum* (Weber) Vain., Meddel. Soc. Fauna Fl. Fenn. 3: 88, 1878 (Vainio 1878). Bas.: *Jungermannia pulcherrima* Weber, Spic. Fl. Goett.: 150, 1778 (Weber 1778).

Metzgeriidae Barthol.-Began
Metzgeriales Chalaud

*** Aneuraceae H.Klinggr.

by M. Nebel

A molecular phylogeny of Aneuraceae was recently published by Preussing et al. (2010). Their study revealed Verdoorniaceae to be nested within Aneuraceae and *Cryptothallus* within *Aneura* (see also Wickett and Goffinet 2008). Nomenclatural and taxonomic notes can also be found in Söderström et al. (2010a), Söderström et al. (2012a) and Nebel et al. (2013).

*** ***Aneura* Dumort.**, Commentat. Bot. (Dumortier): 115, 1822 (Dumortier 1822). [393]
* *Aneura amboinensis* Steph., Bull. Herb. Boissier 7 (9): 678 (219), 1899 (Stephani 1899e).
* *Aneura augustae* Steph., Sp. Hepat. (Stephani) 6: 430, 1923 (Stephani 1923).
* *Aneura biflora* Colenso, Trans. & Proc. New Zealand Inst. 17: 262, 1885 (Colenso 1885).
*** *Aneura blasioides* (Horik.) Furuki, J. Hattori Bot. Lab. 70: 311, 1991 (Furuki 1991). Bas.: *Riccardia blasioides* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 197, 1933 (Horikawa 1933).
** *Aneura brasiliensis* (Ångstr.) Steph., Hedwigia 32 (3): 137, 1893 (Stephani 1893b). Bas.: *Pseudoneura brasiliensis* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 91, 1876 [1877] (Ångström 1876).
* *Aneura brevissima* Steph., Sp. Hepat. (Stephani) 6: 21, 1917 (Stephani 1917a).
** *Aneura cerebrata* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 185, 1970 (Hewson 1970b).
*** *Aneura crateriformis* Furuki et D.G.Long, J. Bryol. 18 (2): 281, 1994 (Furuki and Long 1994).

393 *Aneura includes* also *Acrostolia* and *Pseudoneura*, but a few taxa have never been transferred nor synonymized. They are listed in the section "Names in genera not currently accepted" below. The types of *Aneura augustae*, *Aneura hunsteinii*, *Aneura latemultifida*, *Aneura ledermannii*, *Aneura subledermannii* and *Aneura subtenerrima* were destroyed in B and their identity is doubtful (Grolle and Piippo 1984).

* *Aneura crinita* C.Massal., Bull. Soc. Bot. Ital. 1917 (8/9): 81, 1917 (Massalongo 1917). [394]

** *Aneura crumii* L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 65: 43, 2012 (Söderström et al. 2012a). *Nom. nov. pro Cryptothallus hirsutus* H.A.Crum, Bryologist 99 (4): 438, 1996 (Crum and Bruce 1996).

* *Aneura densa* Steph., Sp. Hepat. (Stephani) 6: 24, 1917 (Stephani 1917a).

* *Aneura denticulata* Mitt. ex Thurn, Timehri 5: 222, 1886 (Thurn 1886). [395]

** *Aneura eachamensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 184, 1970 (Hewson 1970b).

** *Aneura erronea* Steph., Sp. Hepat. (Stephani) 6: 20, 1917 (Stephani 1917a).

** *Aneura eskuchei* Hässel, Veröff. Geobot. Inst. ETH Stiftung Rübel Zürich 91: 294, 1986 (Hässel 1986b).

** *Aneura gemmifera* Furuki, J. Hattori Bot. Lab. 70: 309, 1991 (Furuki 1991).

* *Aneura giangena* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 190, 1970 (Hewson 1970b).

** *Aneura gibbsiana* Steph., Sp. Hepat. (Stephani) 6: 28, 1917 (Stephani 1917a).

** *Aneura glaucescens* Steph., Sp. Hepat. (Stephani) 6: 28, 1917 (Stephani 1917a).

* *Aneura goebeliana* Steph., Sp. Hepat. (Stephani) 6: 28, 1917 (Stephani 1917a).

*** *Aneura hirsuta* Furuki, J. Hattori Bot. Lab. 70: 317, 1991 (Furuki 1991).

* *Aneura hunsteinii* Steph., Sp. Hepat. (Stephani) 6: 431, 1923 (Stephani 1923).

** *Aneura imbricata* Colenso, Trans. & Proc. New Zealand Inst. 16: 359, 1884 (Colenso 1884).

** *Aneura kaguaensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 190, 1970 (Hewson 1970b).

** *Aneura keniae* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 3, 1916 (Gola 1916).

* *Aneura latemultifida* Steph., Sp. Hepat. (Stephani) 6: 431, 1923 (Stephani 1923).

** *Aneura latissima* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 544, 1885 (Spruce 1885).

* *Aneura ledermannii* Steph., Sp. Hepat. (Stephani) 6: 431, 1923 (Stephani 1923).

** *Aneura macrostachya* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 550, 1885 (Spruce 1885).

*** *Aneura marianensis* Furuki, Bryologist 97 (1): 87, 1994 (Furuki 1994b).

*** *Aneura maxima* (Schiffn.) Steph., Bull. Herb. Boissier 7 (10): 760 (270), 1899 (Stephani 1899f). Bas.: *Riccardia maxima* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 177, 1898 (Schiffner 1898a).

*** *Aneura mirabilis* (Malmb.) Wickett et Goffinet, Bot. J. Linn. Soc. 156 (1): 11, 2008 (Wickett and Goffinet 2008). Bas.: *Cryptothallus mirabilis* Malmb., Ann. Bryol. 6: 122, 1933 (von Malmborg 1933).

** *Aneura novaecaledoniae* R.M.Schust., Phytologia 56 (7): 451, 1985 (Schuster 1985c).

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394 *Aneura crinita* (type from Europe) has neither been recognized in any recent European treatment nor synonymized.

395 *Aneura denticulata* is possibly conspecific with *Riccardia ciliolata* (Hässel 2006b).

*** *Aneura novaguineensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 189, 1970 (Hewson 1970b).
* *Aneura nymannii* Steph., Sp. Hepat. (Stephani) 6: 35, 1917 (Stephani 1917a).
** *Aneura pellucida* Colenso, Trans. & Proc. New Zealand Inst. 18: 252, 1886 (Colenso 1886b).
*** *Aneura pinguis* (L.) Dumort., Syll. Jungerm. Europ.: 86, 1831 (Dumortier 1831). Bas.: *Jungermannia pinguis* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).
** *Aneura polyantha* Colenso, Trans. & Proc. New Zealand Inst. 17: 262, 1885 (Colenso 1885).
** *Aneura punctata* Colenso, Trans. & Proc. New Zealand Inst. 18: 254, 1886 (Colenso 1886b).
** *Aneura rodwayi* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 188, 1970 (Hewson 1970b).
* *Aneura roraimensis* Steph., Trans. Linn. Soc. London, Bot. 6 (1): 94, 1901 (Stephani 1901e).
** *Aneura rotangicola* Steph., Sp. Hepat. (Stephani) 6: 432, 1923 (Stephani 1923).
* *Aneura serrulata* Gottsche ex Steph., Sp. Hepat. (Stephani) 6: 42, 1917 (Stephani 1917a).
** *Aneura sharpii* Inoue et N.G.Mill., Bull. Natl. Sci. Mus. Tokyo, B 11 (3): 96, 1985 (Inoue and Miller 1985). [396]
* *Aneura singalangana* (Schiffn.) Steph., Bull. Herb. Boissier 7 (10): 751 (261), 1899 (Stephani 1899f). Bas.: *Riccardia singalangana* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 174, 1898 (Schiffner 1898a). [397]
** *Aneura subcanaliculata* R.M.Schust., J. Hattori Bot. Lab. 67: 60, 1989 (Schuster 1989).
* *Aneura subledermannii* Steph., Sp. Hepat. (Stephani) 6: 432, 1923 (Stephani 1923).
* *Aneura subtenerrima* Steph., Sp. Hepat. (Stephani) 6: 432, 1923 (Stephani 1923).
* *Aneura vincentina* Steph., Sp. Hepat. (Stephani) 6: 45, 1917 (Stephani 1917a).

** ***Lobatiriccardia* (Mizut. et S.Hatt.) Furuki**, J. Hattori Bot. Lab. 70: 319, 1991 (Furuki 1991). Bas.: *Riccardia* subg. *Lobatiriccardia* Mizut. et S.Hatt., J. Hattori Bot. Lab. 18: 38, 1957 (Mizutani and Hattori 1957).
*** *Lobatiriccardia alterniloba* (Hook.f. et Taylor) Furuki, J. Hattori Bot. Lab. 70: 319, 1991 (Furuki 1991). Bas.: *Jungermannia alterniloba* Hook.f. et Taylor, London J. Bot. 3: 572, 1844 (Hooker and Taylor 1844d).
** *Lobatiriccardia alterniloba* var. *gigantea* (Steph.) Nebel, Phytotaxa 81 (1): 10, 2013 (Nebel et al. 2013). Bas.: *Aneura gigantea* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 95, 1914 (Stephani and Watts 1914).
** *Lobatiriccardia alterniloba* var. *robusta* (Rodway) Nebel, Phytotaxa 81 (1): 10, 2013 (Nebel et al. 2013). Bas.: *Aneura alterniloba* f. *robusta* Rodway, Tasm. Bryoph.: 12, 1917 (Rodway 1917b).

396 *Aneura sharpii* is conspecific with *Aneura maxima* in Schuster (1992b), but the taxa are not the same (D.G. Long, pers. comm.).

397 *Aneura singalangana* may be a form of *Riccardia subexalata* (Stephani 1899f).

*** *Lobatiriccardia athertonensis* (Hewson) Furuki, J. Hattori Bot. Lab. 70: 319, 1991 (Furuki 1991). Bas.: *Aneura athertonensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 188, 1970 (Hewson 1970b).

*** *Lobatiriccardia coronopus* (De Not.) Furuki, J. Hattori Bot. Lab. 100: 90, 2006 (Furuki 2006a). Bas.: *Aneura coronopus* De Not., Hedwigia 32 (1): 19, 1893 (Stephani 1893a).

** *Lobatiriccardia coronopus* subsp. *australis* (R.M.Schust.) Nebel, Preussing, Schäf.-Verw. et D.Quandt, Taxon 59 (5): 1434, 2010 (Preussing et al. 2010). Bas.: *Aneura lobata* subsp. *australis* R.M.Schust., Phytologia 56 (7): 451, 1985 (Schuster 1985c).

** *Lobatiriccardia oberwinkleri* Nebel, Preussing, Schäf.-Verw. et D.Quandt, Taxon 59 (5): 1435, 2010 (Preussing et al. 2010).

** *Lobatiriccardia subaquatica* (R.M.Schust.) Nebel, Phytotaxa 81 (1): 10, 2013 (Nebel et al. 2013). Bas.: *Aneura subaquatica* R.M.Schust., Phytologia 56 (7): 450, 1985 (Schuster 1985c).

** *Lobatiriccardia verdoornioides* Nebel, Preussing, Schäf.-Verw. et D.Quandt, Taxon 59 (5): 1437, 2010 (Preussing et al. 2010).

*** *Lobatiriccardia yakusimensis* (S.Hatt.) Furuki, J. Hattori Bot. Lab. 70: 321, 1991 (Furuki 1991). Bas.: *Riccardia lobata* var. *yakusimensis* S.Hatt., J. Hattori Bot. Lab. 6: 10, 1951 [1952] (Hattori 1951a).

*** *Lobatiriccardia yunnanensis* Furuki et D.G.Long, J. Bryol. 29 (3): 161, 2007 (Furuki and Long 2007).

*** ***Riccardia* Gray**, Nat. Arr. Brit. Pl. 1: 679, 1821 (Gray 1821) nom. conserv. [398]

** *Riccardia pectinata* var. *fasciculata* (Steph.) Hürl., Bauhinia 5 (4): 208, 1976 (Hürlimann 1976). Bas.: *Aneura fasciculata* Steph., Sp. Hepat. (Stephani) 6: 25, 1917 (Stephani 1917a).

** **subg. *Arceoneura* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 204, 1972 (Hässel 1972a).

** *Riccardia marionensis* R.M.Schust., J. Hattori Bot. Lab. 67: 65, 1989 (Schuster 1989).

*** *Riccardia prehensilis* (Hook.f. et Taylor) C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 255, 1885 (Massalongo 1885). Bas.: *Jungermannia prehensilis* Hook.f. et Taylor, London J. Bot. 3: 480, 1844 (Hooker and Taylor 1844b).

** **subg. *Corioneura* Furuki**, J. Hattori Bot. Lab. 70: 394, 1991 (Furuki 1991).

** *Riccardia argentolimbata* Hewson et Grolle, J. Hattori Bot. Lab. 29: 70, 1966 (Grolle 1966i).

*** *Riccardia hattorii* Furuki, J. Hattori Bot. Lab. 75: 257, 1994 (Furuki 1994a).

** **subg. *Hyaloneura* R.M.Schust.**, Phytologia 56 (7): 452, 1985 (Schuster 1985c).

398 *Riccardia* includes *Acrostolia*, but a few taxa have neither been transferred nor synonymized. They are listed under "Names in genera not currently accepted" below.

* *Riccardia albomarginata* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 53, 1898 (Schiffner 1898b). Bas.: *Aneura albomarginata* Steph., Hedwigia 32 (1): 18, 1893 (Stephani 1893a). [399]

** *Riccardia canaliculata* (Nees) Kuntze, Revis. Gen. Pl. 2: 838, 1891 (Kuntze 1891). Bas.: *Jungermannia canaliculata* Nees, Enum. Pl. Crypt. Javae: 10, 1830 (Nees 1830).

** *Riccardia pindensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 87, 1970 (Hewson 1970a).

** **subg. *Lophoneura* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 218, 1972 (Hässel 1972a).

** *Riccardia fuegiensis* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 255, 1885 (Massalongo 1885).

** **subg. *Neoneura* Furuki**, J. Hattori Bot. Lab. 70: 385, 1991 (Furuki 1991).

*** *Riccardia spongiosa* Furuki, J. Hattori Bot. Lab. 70: 385, 1991 (Furuki 1991).

** **subg. *Phycaneura* R.M.Schust.**, J. Hattori Bot. Lab. 26: 294, 1963 (Schuster 1963b).

** *Riccardia aequicellularis* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 79, 1970 (Hewson 1970a). Bas.: *Aneura aequicellularis* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 95, 1914 (Stephani and Watts 1914).

** *Riccardia asperulata* R.M.Schust., J. Hattori Bot. Lab. 27: 209, 1964 (Schuster 1964a).

** **subg. *Riccardia***

*** *Riccardia aeruginosa* Furuki, J. Hattori Bot. Lab. 70: 345, 1991 (Furuki 1991).

*** *Riccardia arcuata* Furuki, J. Hattori Bot. Lab. 70: 361, 1991 (Furuki 1991).

*** *Riccardia chamedryfolia* (With.) Grolle, Trans. Brit. Bryol. Soc. 5 (4): 772, 1969 (Grolle 1969b). Bas.: *Jungermannia chamedryfolia* With., Bot. arr. veg. Gr. Brit. 2: 699, 1776 (Withering 1776).

*** *Riccardia cochleata* (Hook.f. et Taylor) Kuntze, Revis. Gen. Pl. 2: 838, 1891 (Kuntze 1891). Bas.: *Riccia cochleata* Hook.f. et Taylor, London J. Bot. 4: 96, 1845 (Hooker and Taylor 1845).

*** *Riccardia eriocaula* (Hook.) C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 256, 1885 (Massalongo 1885). Bas.: *Jungermannia eriocaula* Hook., Musci Exot. 1: tab. 72, 1818 (Hooker 1818).

*** *Riccardia flavovirens* Furuki, J. Hattori Bot. Lab. 70: 333, 1991 (Furuki 1991).

*** *Riccardia fruticosa* (Steph.) Furuki, Nat. Hist. Res. 5 (1): 1, 1998 (Furuki 1998). Bas.: *Aneura fruticosa* Steph., Sp. Hepat. (Stephani) 6: 27, 1917 (Stephani 1917a).

*** *Riccardia glauca* Furuki, J. Hattori Bot. Lab. 70: 352, 1991 (Furuki 1991).

** *Riccardia kodamae* Mizut. et S.Hatt., J. Hattori Bot. Lab. 18: 57, 1957 (Mizutani and Hattori 1957).

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399 *Riccardia albomarginata* is possibly conspecific with *Riccardia canaliculata* (Söderström et al. 2010a).

*** *Riccardia latifrons* (Lindb.) Lindb., Acta Soc. Sci. Fenn. 10: 513, 1875 (Lindberg 1875). Bas.: *Aneura latifrons* Lindb., Bot. Not. 26: 62, 1873 (Anonymous 1873).

** *Riccardia latifrons* subsp. *arctica* R.M.Schust. et Damsh., J. Hattori Bot. Lab. 62: 303, 1987 (Schuster 1987d).

** *Riccardia latifrons* var. *miyakeana* (Schiffn.) Furuki, J. Hattori Bot. Lab. 70: 375, 1991 (Furuki 1991). Bas.: *Riccardia miyakeana* Schiffn., Österr. Bot. Z. 49 (11): 388, 1899 (Schiffner 1899c).

** *Riccardia nagasakiensis* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura nagasakiensis* Steph., Sp. Hepat. (Stephani) 6: 34, 1917 (Stephani 1917a).

*** *Riccardia palmata* (Hedw.) Carruth., J. Bot. 3: 302, 1865 (Carruthers 1865). Bas.: *Jungermannia palmata* Hedw., Theoria generat.: 87, 1784 (Hedwig 1784), *nom. conserv.*

** *Riccardia planiflora* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura planiflora* Steph., Sp. Hepat. (Stephani) 6: 38, 1917 (Stephani 1917a).

** *Riccardia planiflora* var. *aequatorialis* Furuki, Nat. Hist. Res. 4 (2): 77, 1997 (Furuki 1997).

** *Riccardia pseudodendroceros* R.M.Schust., Phytologia 56 (7): 452, 1985 (Schuster 1985c).

*** *Riccardia pumila* Furuki, J. Hattori Bot. Lab. 70: 361, 1991 (Furuki 1991).

** *Riccardia pusilla* Grolle, J. Jap. Bot. 41 (8): 231, 1966 (Grolle 1966d). *Nom. nov. pro Riccardia nana* Mizut. et S.Hatt., J. Hattori Bot. Lab. 18: 53, 1957 (Mizutani and Hattori 1957), *nom. illeg.*

*** *Riccardia subalpina* Furuki, J. Hattori Bot. Lab. 70: 367, 1991 (Furuki 1991).

** *Riccardia tamariscina* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 58, 1898 (Schiffner 1898b). Bas.: *Aneura tamariscina* Steph., Hedwigia 32 (1): 27, 1893 (Stephani 1893a).

*** *Riccardia vitrea* Furuki, J. Hattori Bot. Lab. 70: 327, 1991 (Furuki 1991).

** **sect. *Alcicornia* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 17, 1972 (Hässel 1972a).

** *Riccardia alcicornis* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Jungermannia alcicornis* Hook.f. et Taylor, London J. Bot. 3: 479, 1844 (Hooker and Taylor 1844b).

** *Riccardia conimitra* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 156, 1921 (Evans 1921a). Bas.: *Aneura conimitra* Steph., Bull. Herb. Boissier 7 (10): 749 (259), 1899 (Stephani 1899f).

** *Riccardia corralensis* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 143, 1921 (Evans 1921a). Bas.: *Aneura corralensis* Steph., Bull. Herb. Boissier 7 (10): 742 (252), 1899 (Stephani 1899f).

*** *Riccardia furtiva* E.A.Br. et Braggins, J. Hattori Bot. Lab. 66: 35, 1989 (Brown and Braggins 1989).

** *Riccardia fuscobrunnea* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 152, 1921 (Evans 1921a). Bas.: *Aneura fuscobrunnea* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 7, 1911 (Stephani 1911b).
** *Riccardia longioleata* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 30, 1972 (Hässel 1972a).
*** *Riccardia multicorpora* E.A.Br., J. Hattori Bot. Lab. 66: 40, 1989 (Brown and Braggins 1989).
* *Riccardia umida* E.A.Br., J. Hattori Bot. Lab. 66: 38, 1989 (Brown and Braggins 1989).

** **sect. *Crassantia* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 41, 1972 (Hässel 1972a).
*** *Riccardia aequitexta* (Steph.) E.A.Br., J. Hattori Bot. Lab. 66: 78, 1989 (Brown and Braggins 1989). Bas.: *Aneura aequitexta* Steph., J. Linn. Soc., Bot. 29 (201): 263, 1892 (Stephani 1892b).
*** *Riccardia alba* (Colenso) E.A.Br., J. Hattori Bot. Lab. 66: 66, 1989 (Brown and Braggins 1989). Bas.: *Aneura alba* Colenso, Trans. & Proc. New Zealand Inst. 16: 357, 1884 (Colenso 1884).
** *Riccardia amnicola* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 92, 1972 (Hässel 1972a).
** *Riccardia bipinnatifida* (Colenso) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 93, 1970 (Hewson 1970a). Bas.: *Aneura bipinnatifida* Colenso, Trans. & Proc. New Zealand Inst. 16: 358, 1884 (Colenso 1884).
** *Riccardia calva* (Schiffn.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 134, 1921 (Evans 1921a). Bas.: *Aneura calva* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 42, 1890 (Schiffner 1890).
*** *Riccardia colensoi* (Steph.) W.Martin, Trans. & Proc. Roy. Soc. New Zealand 78 (4): 499, 1950 (Martin 1950). Bas.: *Aneura colensoi* Steph., J. Linn. Soc., Bot. 29 (201): 264, 1892 (Stephani 1892b).
*** *Riccardia crassa* (Schwägr.) C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 254, 1885 (Massalongo 1885). Bas.: *Jungermannia crassa* Schwägr., Hist. Musc. Hepat. Prodr.: 31, 1814 (Schwägrichen 1814).
** *Riccardia crassicrispa* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 194, 1921 (Evans 1921a). Bas.: *Aneura crassicrispa* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 6, 1911 (Stephani 1911b).
** *Riccardia diderma* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 56, 1972 (Hässel 1972a).
** *Riccardia diversiflora* A.Evans, Trans. Connecticut Acad. Arts 25 (2): 167, 1921 (Evans 1921a).
** *Riccardia diversiflora* subsp. *paucigyna* R.M.Schust., J. Hattori Bot. Lab. 67: 97, 1989 (Schuster 1989).
** *Riccardia duriuscula* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 82, 1972 (Hässel 1972a).

** *Riccardia falsifloribunda* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 119, 1972 (Hässel 1972a).
** *Riccardia floribunda* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 182, 1921 (Evans 1921a). Bas.: *Aneura floribunda* Steph., Bull. Herb. Boissier 7 (10): 749 (259), 1899 (Stephani 1899f).
** *Riccardia fluvigena* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 73, 1972 (Hässel 1972a).
** *Riccardia georgiensis* (Steph.) Hässel, Lindbergia 1 (1/2): 80, 1971 [1972] (Grolle 1971a). Bas.: *Aneura georgiensis* Steph., Wiss. Ergebn. Schwed. Südpolar-Exped. [1901–1903] 4 (1): 2, 1905 (Stephani 1905e).
** *Riccardia georgiensis* subsp. *sympodea* R.M.Schust., J. Hattori Bot. Lab. 67: 83, 1989 (Schuster 1989).
*** *Riccardia graeffei* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 118, 1970 (Hewson 1970a). Bas.: *Aneura graeffei* Steph., Hedwigia 32 (1): 21, 1893 (Stephani 1893a).
*** *Riccardia marginata* (Colenso) Pearson, Univ. Calif. Publ. Bot. 10 (4): 309, 1923 (Pearson 1923). Bas.: *Aneura marginata* Colenso, Trans. & Proc. New Zealand Inst. 18: 253, 1886 (Colenso 1886b).
*** *Riccardia marginata* var. *pacifica* Furuki, J. Hattori Bot. Lab. 70: 380, 1991 (Furuki 1991).
** *Riccardia mycophora* A.Evans, Trans. Connecticut Acad. Arts 25 (2): 175, 1921 (Evans 1921a).
** *Riccardia negeri* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 172, 1921 (Evans 1921a). Bas.: *Aneura negeri* Steph., Bull. Herb. Boissier 7 (10): 747 (257), 1899 (Stephani 1899f).
** *Riccardia nitida* (Colenso) E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 92, 1965 (Hodgson 1965). Bas.: *Aneura nitida* Colenso, Trans. & Proc. New Zealand Inst. 18: 253, 1886 (Colenso 1886b).
** *Riccardia papillosa* (C.Massal. et Steph.) Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 60, 1972 (Hässel 1972a). Bas.: *Aneura papillosa* C.Massal. et Steph., Atti Reale Ist. Veneto Sci. Lett. Arti 87 (2): 241, 1928 (Massalongo 1928).
** *Riccardia regularis* (Steph.) Kühnem., Revista Centro Estud. Doct. Ci. Nat. 1: 171, 1937 (Kühnemann 1937). Bas.: *Aneura regularis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 9, 1911 (Stephani 1911b).
** *Riccardia rivularis* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 52, 1972 (Hässel 1972a).
** *Riccardia saxicola* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 137, 1972 (Hässel 1972a).
** *Riccardia spectabilis* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 140, 1921 (Evans 1921a). Bas.: *Aneura spectabilis* Steph., Bull. Herb. Boissier 7 (10): 746 (256), 1899 (Stephani 1899f).

** *Riccardia spegazziniana* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 254, 1885 (Massalongo 1885).
** *Riccardia tenax* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 186, 1921 (Evans 1921a). Bas.: *Aneura tenax* Steph., Bull. Herb. Boissier 7 (10): 755 (265), 1899 (Stephani 1899f).
** *Riccardia tenerrima* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 164, 1921 (Evans 1921a). Bas.: *Aneura tenerrima* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 9, 1911 (Stephani 1911b).
** *Riccardia theliophora* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 96, 1972 (Hässel 1972a).

** **sect. *Pallidevirida* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 142, 1972 (Hässel 1972a).
** *Riccardia granulata* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 192, 1921 (Evans 1921a). Bas.: *Aneura granulata* Steph., Hedwigia 32 (1): 21, 1893 (Stephani 1893a).
** *Riccardia intercellula* E.A.Br., J. Hattori Bot. Lab. 66: 58, 1989 (Brown and Braggins 1989).
** *Riccardia opuntiiformis* S.W.Arnell, Arch. Soc. Zool. Bot. Fenn. "Vanamo" 9: 52, 1954 (Arnell 1954b).
** *Riccardia pallidevirens* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 189, 1921 (Evans 1921a). Bas.: *Aneura pallidevirens* Steph., Bull. Herb. Boissier 7 (10): 762 (272), 1899 (Stephani 1899f).
*** *Riccardia pennata* E.A.Br., J. Hattori Bot. Lab. 66: 53, 1989 (Brown and Braggins 1989).
*** *Riccardia perspicua* E.A.Br., J. Hattori Bot. Lab. 66: 55, 1989 (Brown and Braggins 1989).
** *Riccardia xylophila* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 156, 1972 (Hässel 1972a).

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*** *Riccardia australis* (Lehm.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 110, 1970 (Hewson 1970a). Bas.: *Sarcomitrium australe* Lehm., Nov. Stirp. Pug. 10: 19, 1857 (Lehmann 1857).
** *Riccardia autoica* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 159, 1921 (Evans 1921a). Bas.: *Aneura autoica* Steph., Bull. Herb. Boissier 7 (9): 691 (232), 1899 (Stephani 1899e).
** *Riccardia breviala* E.A.Br., J. Hattori Bot. Lab. 66: 46, 1989 (Brown and Braggins 1989).
** *Riccardia breviramosa* (Steph.) A.Evans, Nat. Hist. Juan Fernandez (Botany) 2 (20): 559, 1930 (Evans 1930a). Bas.: *Aneura breviramosa* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 6, 1911 (Stephani 1911b).

** *Riccardia filicina* (Colenso) E.A.Hodgs., Rec. Domin. Mus. 4 (11): 129, 1962 (Hodgson 1962a). Bas.: *Aneura filicina* Colenso, Trans. & Proc. New Zealand Inst. 16: 358, 1884 (Colenso 1884).

** *Riccardia leptostachya* A.Evans, Nat. Hist. Juan Fernandez (Botany) 2 (20): 570, 1930 (Evans 1930a).

** *Riccardia lobulata* (Colenso) E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 92, 1965 (Hodgson 1965). Bas.: *Zoopsis lobulata* Colenso, Trans. & Proc. New Zealand Inst. 18: 250, 1886 (Colenso 1886b).

** *Riccardia mejlandii* S.W.Arnell, Results Norweg. Sci. Exped. Tristan da Cunha 42: 30, 1958 (Arnell 1958b).

*** *Riccardia multifida* (L.) Gray, Nat. Arr. Brit. Pl. 1: 684, 1821 (Gray 1821). Bas.: *Jungermannia multifida* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).

*** *Riccardia multifida* subsp. *decrescens* (Steph.) Furuki, J. Hattori Bot. Lab. 70: 341, 1991 (Furuki 1991). Bas.: *Aneura decrescens* Steph., Bull. Herb. Boissier 7 (9): 686 (227), 1899 (Stephani 1899e).

** *Riccardia multifida* subsp. *synoica* R.M.Schust., J. Hattori Bot. Lab. 62: 319, 1987 (Schuster 1987d).

** *Riccardia multioleata* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 195, 1972 (Hässel 1972a).

*** *Riccardia papulosa* (Steph.) E.A.Br., J. Hattori Bot. Lab. 66: 49, 1989 (Brown and Braggins 1989). Bas.: *Aneura papulosa* Steph., Hedwigia 32 (1): 25, 1893 (Stephani 1893a).

** *Riccardia patens* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 165, 1972 (Hässel 1972a).

** *Riccardia polyclada* (Mitt.) Hässel, Bryologist 109 (1): 34, 2006 (Hässel 2006b). Bas.: *Aneura polyclada* Mitt., Trans. Linn. Soc. London, Bot. 2 (13): 297, 1887 (Mitten 1887).

** *Riccardia statensis* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 177, 1972 (Hässel 1972a).

** *Riccardia thaxteri* A.Evans, Trans. Connecticut Acad. Arts 25 (2): 126, 1921 (Evans 1921a).

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** **subg. *Spinella* (Schiffn.) Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 214, 1972 (Hässel 1972a). Bas.: *Spinella* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 41, 1890 (Schiffner 1890).

** *Riccardia spinulifera* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 254, 1885 (Massalongo 1885).

** **subg. *Thornoneura* Furuki**, J. Hattori Bot. Lab. 70: 382, 1991 (Furuki 1991).

* *Riccardia baumannii* Hürl., Bauhinia 5 (4): 203, 1976 (Hürlimann 1976). [400]

** *Riccardia deguchii* Furuki et K.T.Yong, Hikobia 16 (3): 285, 2013 (Furuki et al. 2013).

*** *Riccardia grossitexta* (Steph.) Furuki, J. Hattori Bot. Lab. 70: 382, 1991 (Furuki 1991). Bas.: *Aneura grossitexta* Steph., Sp. Hepat. (Stephani) 6: 29, 1917 (Stephani 1917a).

** *Riccardia inconspicua* (Steph.) Reeb et Bardat, Cryptog. Bryol. 35 (1): 61, 2014 (Reeb and Bardat 2014). Bas.: *Aneura inconspicua* Steph., Hedwigia 32 (1): 23, 1893 (Stephani 1893a).

** **subg. *Trichothallia* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 224, 1972 (Hässel 1972a).

** *Riccardia hyalitricha* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 225, 1972 (Hässel 1972a).

Incertae sedis

** *Riccardia aberrans* (Steph.) Gradst., J. Hattori Bot. Lab. 45: 129, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura aberrans* Steph., Hedwigia 32 (1): 18, 1893 (Stephani 1893a).

** *Riccardia agumana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 82, 1970 (Hewson 1970a).

** *Riccardia algoides* (Taylor) Meenks, J. Hattori Bot. Lab. 62: 168, 1987 (Meenks 1987). Bas.: *Metzgeria algoides* Taylor, London J. Bot. 5: 410, 1846 (Taylor 1846b).

*** *Riccardia amazonica* (Spruce) Schiffn. ex Gradst. et Hekking, J. Hattori Bot. Lab. 45: 129, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura amazonica* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 545, 1885 (Spruce 1885).

*** *Riccardia andina* (Spruce) Herzog, Svensk Bot. Tidskr. 46 (1): 65, 1952 (Herzog 1952e). Bas.: *Aneura andina* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 548, 1885 (Spruce 1885).

** *Riccardia angustata* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 126, 1934 (Horikawa 1934).

** *Riccardia angustealata* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 111, 1970 (Hewson 1970a). Bas.: *Aneura angustealata* Steph., Sp. Hepat. (Stephani) 6: 20, 1917 (Stephani 1917a).

** *Riccardia angustissima* (Steph.) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura angustissima* Steph., Sp. Hepat. (Stephani) 6: 20, 1917 (Stephani 1917a).

** *Riccardia aspera* (Steph.) Grolle, J. Hattori Bot. Lab. 30: 117, 1967 (Grolle 1967b). Bas.: *Aneura aspera* Steph., Sp. Hepat. (Stephani) 6: 21, 1917 (Stephani 1917a).

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400 *Riccardia baumannii* is possibly conspecific with *Riccardia grossitexta* or *Riccardia tenuicostata* (Furuki 1991, Söderström et al. 2010a).

* *Riccardia baldwinii* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura baldwinii* Steph., Bull. Herb. Boissier 7 (10): 743 (253), 1899 (Stephani 1899f). [401]

** *Riccardia barbiflora* (Steph.) Piippo, J. Hattori Bot. Lab. 68: 134, 1990 (Piippo 1990). Bas.: *Aneura barbiflora* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 209, 1894 (Stephani 1894b).

** *Riccardia bogotensis* (Gottsche) Pagán, Bryologist 42 (1): 6, 1939 (Pagán 1939a). Bas.: *Pseudoneura bogotensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 184, 1864 (Gottsche 1864).

** *Riccardia boliviensis* (Steph.) Meenks, J. Hattori Bot. Lab. 62: 170, 1987 (Meenks 1987). Bas.: *Aneura boliviensis* Steph., Biblioth. Bot. 87 (2): 176, 1916 (Stephani 1916a).

** *Riccardia bongeriana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 101, 1970 (Hewson 1970a).

** *Riccardia brunnea* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura brunnea* Steph., Sp. Hepat. (Stephani) 6: 21, 1917 (Stephani 1917a).

** *Riccardia calcarea* (Steph.) Meenks, J. Hattori Bot. Lab. 62: 170, 1987 (Meenks 1987). Bas.: *Aneura calcarea* Steph., Bull. Herb. Boissier 7 (10): 756 (266), 1899 (Stephani 1899f).

** *Riccardia capillacea* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 6, 1985 (Meenks and de Jong 1985). Bas.: *Aneura capillacea* Steph., Biblioth. Bot. 87 (2): 174, 1916 (Stephani 1916a).

** *Riccardia capillacea* var. *dentata* Meenks, J. Hattori Bot. Lab. 62: 170, 1987 (Meenks 1987).

** *Riccardia cardotii* (Steph.) Pandé et S.C.Srivast., Biol. Mem. 1 (1/2): 131, 1976 (Srivastava and Udar 1976). Bas.: *Aneura cardotii* Steph., Bull. Soc. Roy. Bot. Belgique, Mém. 41 (1): 118, 1904 [1905] (Stephani 1904d).

** *Riccardia cataractarum* (Spruce) Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 18, 1964 (Schiffner and Arnell 1964). Bas.: *Aneura cataractarum* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxcv, 1889 [1890] (Spruce 1889).

*** *Riccardia cervicornis* (Spruce) Herzog ex Gradst. et Hekking, J. Hattori Bot. Lab. 45: 129, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura cervicornis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 550, 1885 (Spruce 1885).

** *Riccardia changbaishanensis* C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 209, 1981 (Gao and Chang 1981).

** *Riccardia chinensis* C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 209, 1981 (Gao and Chang 1981).

** *Riccardia ciliolata* (Spruce) Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 198, 1933 (Horikawa 1933). Bas.: *Aneura ciliolata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 547, 1885 (Spruce 1885).

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401 *Riccardia baldwinii* is possibly conspecific with *Riccardia flaccida* (Miller et al. 1983).

** *Riccardia columbica* (Steph.) Hässel ex Gradst. et Hekking, J. Hattori Bot. Lab. 45: 130, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura columbica* Steph., Sp. Hepat. (Stephani) 6: 22, 1917 (Stephani 1917a).

** *Riccardia comata* (Steph.) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura comata* Steph., Sp. Hepat. (Stephani) 6: 22, 1917 (Stephani 1917a).

** *Riccardia compacta* (Steph.) S.W.Arnell, Bot. Not. 105: 141, 1952 (Arnell 1952b). Bas.: *Aneura compacta* Steph., Hedwigia 32 (1): 19, 1893 (Stephani 1893a).

** *Riccardia comptonii* (Pearson) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura comptonii* Pearson, J. Linn. Soc., Bot. 46 (305): 17, 1922 (Pearson 1922b).

** *Riccardia costata* (Steph.) Hürl., Bauhinia 5 (4): 206, 1976 (Hürlimann 1976). Bas.: *Aneura costata* Steph., Sp. Hepat. (Stephani) 6: 23, 1917 (Stephani 1917a).

*** *Riccardia crassicaulis* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 8, 1985 (Meenks and de Jong 1985). Bas.: *Aneura crassicaulis* Steph., Biblioth. Bot. 87 (2): 174, 1916 (Stephani 1916a).

** *Riccardia crassiretis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 173, 1898 (Schiffner 1898a).

** *Riccardia crenulata* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 173, 1898 (Schiffner 1898a).

** *Riccardia crenuliformis* R.M.Schust., J. Hattori Bot. Lab. 67: 72, 1989 (Schuster 1989).

* *Riccardia decolyana* Schiffn., J. Indian Bot. Soc. 38 (4): 538, 1959 [1960] (Schiffner et al. 1959). [402]

** *Riccardia densiramea* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura densiramea* Steph., Sp. Hepat. (Stephani) 6: 24, 1917 (Stephani 1917a).

** *Riccardia devexa* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 12, 1964 (Schiffner and Arnell 1964).

** *Riccardia diablotina* (Spruce) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura diablotina* Spruce, J. Linn. Soc., Bot. 30 (210): 366, 1895 (Gepp 1895b).

*** *Riccardia digitiloba* (Spruce) Pagán, Bryologist 42 (1): 6, 1939 (Pagán 1939a). Bas.: *Aneura digitiloba* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cci, 1889 [1890] (Spruce 1889).

** *Riccardia dilatata* (Spruce) Schäf.-Verw. et Pócs, Cryptog. Bryol. 31 (4): 389, 2010 (Schäfer-Verwimp 2010). Bas.: *Aneura dilatata* Spruce, J. Linn. Soc., Bot. 30 (210): 368, 1895 (Gepp 1895b).

* *Riccardia diminuta* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 170, 1898 (Schiffner 1898a). [403]

* *Riccardia diminuta* var. *thermarum* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 172, 1898 (Schiffner 1898a).

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402 *Riccardia decolyana* is possibly conspecific with *Riccardia multifida* (Srivastava and Udar 1976).

403 *Riccardia diminuta* is possibly conspecific with *Riccardia elata* (Söderström et al. 2010a).

** *Riccardia distans* (Spruce) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura distans* Spruce, J. Linn. Soc., Bot. 30 (210): 367, 1895 (Gepp 1895b).

** *Riccardia elata* (Steph.) Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 169, 1898 (Schiffner 1898a). Bas.: *Aneura elata* Steph., Hedwigia 32 (1): 19, 1893 (Stephani 1893a).

* *Riccardia elata* var. *flaccida* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 170, 1898 (Schiffner 1898a).

* *Riccardia elata* var. *intercedens* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 170, 1898 (Schiffner 1898a).

** *Riccardia elegans* (Steph.) Hürl., Bauhinia 5 (4): 196, 1976 (Hürlimann 1976). Bas.: *Aneura elegans* Steph., Sp. Hepat. (Stephani) 6: 25, 1917 (Stephani 1917a).

** *Riccardia elisabethae* Thouvenot et Reeb, Telopea 17: 229, 2014 (Thouvenot and Reeb 2014).

*** *Riccardia emarginata* (Steph.) K.G.Hell, Bol. Fac. Filos. Univ. São Paulo, Bot. 25: 100, 1969 (Hell 1969). Bas.: *Aneura emarginata* Steph., Hedwigia 32 (1): 20, 1893 (Stephani 1893a).

** *Riccardia erosa* (Steph.) E.W.Jones, Trans. Brit. Bryol. Soc. 3 (1): 83, 1956 (Jones 1956). Bas.: *Aneura erosa* Steph., Hedwigia 30 (6): 269, 1891 (Stephani 1891c).

** *Riccardia fastigiata* (Lehm.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Jungermannia fastigiata* Lehm., Linnaea 4: 370, 1829 (Lehmann 1829).

** *Riccardia fendleri* (Steph.) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura fendleri* Steph., Hedwigia 32 (1): 20, 1893 (Stephani 1893a).

** *Riccardia flaccida* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura flaccida* Steph., Sp. Hepat. (Stephani) 6: 26, 1917 (Stephani 1917a).

** *Riccardia flaccidissima* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 167, 1898 (Schiffner 1898a).

** *Riccardia flagellaris* (A.Gepp) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura flagellaris* A.Gepp, J. Linn. Soc., Bot. 39 (270): 194, 1909 (Gibbs 1909).

** *Riccardia flagellifrons* C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 209, 1981 (Gao and Chang 1981).

** *Riccardia fleischeri* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura fleischeri* Steph., Sp. Hepat. (Stephani) 6: 26, 1917 (Stephani 1917a).

** *Riccardia foliacea* Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 8, 1985 (Meenks and de Jong 1985).

** *Riccardia formosensis* (Steph.) Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 125, 1934 (Horikawa 1934). Bas.: *Aneura formosensis* Steph., Sp. Hepat. (Stephani) 6: 27, 1917 (Stephani 1917a).

*** *Riccardia fucoidea* (Sw.) C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 256, 1885 (Massalongo 1885). Bas.: *Jungermannia fucoidea* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).

** *Riccardia geniana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 76, 1970 (Hewson 1970a).

*** *Riccardia glaziovii* (Spruce) Meenks, J. Hattori Bot. Lab. 62: 173, 1987 (Meenks 1987). Bas.: *Aneura glaziovii* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cci, 1889 [1890] (Spruce 1889).

** *Riccardia gogolensis* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 102, 1970 (Hewson 1970a). Bas.: *Aneura gogolensis* Steph., Bull. Herb. Boissier 7 (9): 689 (230), 1899 (Stephani 1899e).

** *Riccardia gracilis* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 295, 1963 (Schuster 1963b). Bas.: *Aneura gracilis* Steph., Bull. Herb. Boissier 7 (10): 752 (262), 1899 (Stephani 1899f).

** *Riccardia grandiflora* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 528, 1963 (Miller 1963). Bas.: *Aneura grandiflora* Steph., Sp. Hepat. (Stephani) 6: 29, 1917 (Stephani 1917a).

*** *Riccardia grollei* Furuki, Haussknechtia, Beih. 9: 139, 1999 (Furuki 1999).

** *Riccardia grossidens* (Steph.) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura grossidens* Steph., Hedwigia 32 (1): 23, 1893 (Stephani 1893a).

** *Riccardia gunniana* (Steph.) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura gunniana* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 96, 1914 (Stephani and Watts 1914).

** *Riccardia hamatiflora* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 526, 1963 (Miller 1963). Bas.: *Aneura hamatiflora* Steph., Bull. Herb. Boissier 5 (10): 844, 1897 (Stephani 1897c).

*** *Riccardia hans-meyeri* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 12, 1985 (Meenks and de Jong 1985). Bas.: *Aneura hans-meyeri* Steph., Sp. Hepat. (Stephani) 6: 29, 1917 (Stephani 1917a).

** *Riccardia hans-meyeri* var. *dentata* Meenks, J. Hattori Bot. Lab. 62: 173, 1987 (Meenks 1987).

** *Riccardia hawaica* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 528, 1963 (Miller 1963). Bas.: *Aneura hawaica* Steph., Sp. Hepat. (Stephani) 6: 30, 1917 (Stephani 1917a).

** *Riccardia hebridensis* (Steph.) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura hebridensis* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 96, 1914 (Stephani and Watts 1914).

** *Riccardia herzogiana* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 12, 1985 (Meenks and de Jong 1985). Bas.: *Aneura herzogiana* Steph., Biblioth. Bot. 87 (2): 175, 1916 (Stephani 1916a).

** *Riccardia heteroclada* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 175, 1898 (Schiffner 1898a).

* *Riccardia hirtiflora* (Steph.) Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 19, 1964 (Schiffner and Arnell 1964). Bas.: *Aneura hirtiflora* Steph., Arch. Mus. Nac. Rio de Janeiro 13: 116, 1905 (Stephani 1905c). [404]

404 *Riccardia hirtiflora* is possibly conspecific with *Riccardia emarginata* (Gradstein and Costa 2003).

** *Riccardia humilis* (Gottsche) O.Yano, J. Hattori Bot. Lab. 56: 530, 1984 (Yano 1984). Bas.: *Pseudoneura humilis* Gottsche, Mexik. Leverm.: 260, 1863 (Gottsche 1863).
** *Riccardia hyalina* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura hyalina* Steph., Sp. Hepat. (Stephani) 6: 31, 1917 (Stephani 1917a).
** *Riccardia hydra* Hürl., Bauhinia 5 (4): 210, 1976 (Hürlimann 1976).
** *Riccardia hymenophylloides* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 175, 1898 (Schiffner 1898a).
* *Riccardia hymenophylloides* var. *flaccida* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 176, 1898 (Schiffner 1898a).
*** *Riccardia hymenophytoides* (Spruce) Meenks, Beih. Nova Hedwigia 88: 101, 1987 (Schultze-Motel and Menzel 1987). Bas.: *Aneura hymenophytoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 549, 1885 (Spruce 1885).
** *Riccardia hypipamensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 97, 1970 (Hewson 1970a).
** *Riccardia ibana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 78, 1970 (Hewson 1970a).
*** *Riccardia incurvata* Lindb., Helsingf. Dagbl. 1878 (315, 18 Nov.): 2, 1878 (Lindberg 1878).
** *Riccardia innovans* (Steph.) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura innovans* Steph., Symb. Antill. 2: 470, 1901 (Stephani 1901f).
** *Riccardia insularis* Schiffn., Deutsche Südpolar-Exped. 1901-1903, 8 (bot.) 1: 66, 1906 (Schiffner 1906a).
** *Riccardia intricata* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura intricata* Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 301, 1896 (Stephani 1896a).
** *Riccardia jackii* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 165, 1898 (Schiffner 1898a).
* *Riccardia jackii* var. *densa* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 165, 1898 (Schiffner 1898a).
** *Riccardia judithae* Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 12, 1985 (Meenks and de Jong 1985).
*** *Riccardia jugata* R.M.Schust., J. Hattori Bot. Lab. 62: 305, 1987 (Schuster 1987d).
* *Riccardia karstenii* (Steph.) Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 177, 1898 (Schiffner 1898a). Bas.: *Aneura karstenii* Steph., Hedwigia 32 (1): 23, 1893 (Stephani 1893a).
** *Riccardia laticostata* (Spruce) Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 12, 1964 (Schiffner and Arnell 1964). Bas.: *Aneura laticostata* Spruce, J. Linn. Soc., Bot. 30 (210): 367, 1895 (Gepp 1895b).
** *Riccardia latifrondoides* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 168, 1898 (Schiffner 1898a).
** *Riccardia lepidomitra* (Spruce) Gradst., J. Hattori Bot. Lab. 45: 130, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura lepidomitra* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 549, 1885 (Spruce 1885).

** *Riccardia leptophylla* (Spruce) Herzog, Svensk Bot. Tidskr. 46 (1): 65, 1952 (Herzog 1952e). Bas.: *Aneura leptophylla* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 544, 1885 (Spruce 1885).

** *Riccardia leptothallus* R.M.Schust., J. Hattori Bot. Lab. 67: 87, 1989 (Schuster 1989).

** *Riccardia levieri* Schiffn., Österr. Bot. Z. 49 (4): 130, 1899 (Schiffner 1899b).

** *Riccardia lichenoides* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura lichenoides* Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 301, 1896 (Stephani 1896a).

** *Riccardia ligulata* (Steph.) Pócs et Schäf.-Verw., Cryptog. Bryol. 31 (4): 390, 2010 (Schäfer-Verwimp 2010). Bas.: *Aneura ligulata* Steph., Sp. Hepat. (Stephani) 6: 32, 1917 (Stephani 1917a).

** *Riccardia lilliena* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura lilliena* Steph., Sp. Hepat. (Stephani) 6: 33, 1917 (Stephani 1917a).

** *Riccardia limbata* (Steph.) E.W.Jones, Trans. Brit. Bryol. Soc. 3 (1): 79, 1956 (Jones 1956). Bas.: *Aneura limbata* Steph., Hedwigia 30 (5): 203, 1891 (Stephani 1891a).

** *Riccardia loefgrenii* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 14, 1964 (Schiffner and Arnell 1964).

** *Riccardia longiflora* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 88, 1970 (Hewson 1970a). Bas.: *Aneura longiflora* Steph., Bull. Herb. Boissier 7 (10): 746 (256), 1899 (Stephani 1899f).

** *Riccardia longispica* (Steph.) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (14): 4, 1893 (Pearson 1893). Bas.: *Aneura longispica* Steph., Bot. Gaz. 15 (11): 281, 1890 (Stephani 1890c).

** *Riccardia loriana* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 528, 1963 (Miller 1963). Bas.: *Aneura loriana* Steph., Bull. Herb. Boissier 7 (10): 733 (243), 1899 (Stephani 1899f).

** *Riccardia macdonaldiana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 93, 1970 (Hewson 1970a).

** *Riccardia macrantha* (Pearson) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura macrantha* Pearson, J. Linn. Soc., Bot. 46 (305): 17, 1922 (Pearson 1922b).

*** *Riccardia magnicellularis* Furuki, J. Hattori Bot. Lab. 100: 93, 2006 (Furuki 2006a).

*** *Riccardia metzgeriiformis* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 295, 1963 (Schuster 1963b). Bas.: *Aneura metzgeriiformis* Steph., Bull. Herb. Boissier 7 (10): 753 (263), 1899 (Stephani 1899f).

** *Riccardia microscopica* (Nees) Kuntze, Revis. Gen. Pl. 2: 838, 1891 (Kuntze 1891). Bas.: *Aneura microscopica* Nees, Syn. Hepat. 4: 500, 1846 (Gottsche et al. 1846).

** *Riccardia minuta* (Steph.) W.Martin, Trans. & Proc. Roy. Soc. New Zealand 78 (4): 499, 1950 (Martin 1950). Bas.: *Aneura minuta* Steph., Sp. Hepat. (Stephani) 6: 34, 1917 (Stephani 1917a).

* *Riccardia multifidoides* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 166, 1898 (Schiffner 1898a). [405]

** *Riccardia multispica* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura multispica* Steph., Sp. Hepat. (Stephani) 6: 34, 1917 (Stephani 1917a).

** *Riccardia nadeaudii* (Steph.) Hürl., Bauhinia 5 (4): 201, 1976 (Hürlimann 1976). Bas.: *Aneura nadeaudii* Steph., Bull. Herb. Boissier 7 (10): 750 (260), 1899 (Stephani 1899f).

** *Riccardia newellana* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 528, 1963 (Miller 1963). Bas.: *Aneura newellana* Steph., Sp. Hepat. (Stephani) 6: 35, 1917 (Stephani 1917a).

** *Riccardia nigra* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura nigra* Steph., Sp. Hepat. (Stephani) 6: 35, 1917 (Stephani 1917a).

** *Riccardia nobilis* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 56, 1898 (Schiffner 1898b). Bas.: *Aneura nobilis* Steph., Hedwigia 32 (1): 24, 1893 (Stephani 1893a).

** *Riccardia novo-amstelodamensis* Schiffn., Deutsche Südpolar-Exped. 1901-1903, 8 (bot.) 1: 65, 1906 (Schiffner 1906a).

** *Riccardia nudiflora* (Steph.) Grolle, Bryophyt. Biblioth. 48: 130, 1995 (Grolle 1995). Bas.: *Aneura nudiflora* Steph., Bot. Gaz. 15 (11): 282, 1890 (Stephani 1890c).

** *Riccardia obtusa* S.W.Arnell, Bot. Not. 105: 142, 1952 (Arnell 1952b).

** *Riccardia obtusifrons* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura obtusifrons* Steph., Sp. Hepat. (Stephani) 6: 36, 1917 (Stephani 1917a).

** *Riccardia omkaliensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 97, 1970 (Hewson 1970a).

*** *Riccardia pallida* (Spruce) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 15, 1985 (Meenks and de Jong 1985). Bas.: *Aneura pallida* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 547, 1885 (Spruce 1885).

** *Riccardia palmatifida* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura palmatifida* Steph., Sp. Hepat. (Stephani) 6: 36, 1917 (Stephani 1917a).

* *Riccardia palmatiformis* Schiffn., J. Indian Bot. Soc. 38 (4): 538, 1959 [1960] (Schiffner et al. 1959). [406]

** *Riccardia papillata* (Gottsche) Hässel ex Gradst. et Hekking, J. Hattori Bot. Lab. 45: 130, 1979 (Gradstein and Hekking 1979). Bas.: *Pseudoneura papillata* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 185, 1864 (Gottsche 1864).

** *Riccardia paramorum* Meenks, J. Hattori Bot. Lab. 62: 176, 1987 (Meenks 1987).

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405 *Riccardia multifidoides* is conspecific with *Riccardia multifida* in Meijer (1959), but that was not based on examination of type material (Söderström et al. 2010a).

406 *Riccardia palmatiformis* was treated as a doubtful taxon with some affinity with *Riccardia levieri* by Srivastava and Udar (1976).

*** *Riccardia parasitans* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 17, 1985 (Meenks and de Jong 1985). Bas.: *Aneura parasitans* Steph., Biblioth. Bot. 87 (2): 175, 1916 (Stephani 1916a).

** *Riccardia parvula* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 172, 1898 (Schiffner 1898a).

** *Riccardia pauciramea* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura pauciramea* Steph., Bull. Herb. Boissier 5 (10): 845, 1897 (Stephani 1897c).

** *Riccardia paulensis* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 16, 1964 (Schiffner and Arnell 1964).

** *Riccardia pectinata* (Austin) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 526, 1963 (Miller 1963). Bas.: *Aneura pectinata* Austin, Bull. Torrey Bot. Club 5 (3): 15, 1874 (Austin 1874).

** *Riccardia pellucida* Piippo, J. Hattori Bot. Lab. 68: 134, 1990 (Piippo 1990). *Nom. nov. pro Aneura pellucida* Steph., Sp. Hepat. (Stephani) 6: 37, 1917 (Stephani 1917a), *nom. illeg.*

** *Riccardia pembaiensis* (Steph.) Hürl., Bauhinia 5 (4): 205, 1976 (Hürlimann 1976). Bas.: *Aneura pembaiensis* Steph., Sp. Hepat. (Stephani) 6: 37, 1917 (Stephani 1917a).

** *Riccardia pengagensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 108, 1970 (Hewson 1970a).

** *Riccardia perssonii* S.C.Srivast. et Udar, Lindbergia 4 (1/2): 127, 1977 (Srivastava and Udar 1977).

*** *Riccardia philippinensis* Furuki, J. Hattori Bot. Lab. 100: 94, 2006 (Furuki 2006a).

** *Riccardia phleganiana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 80, 1970 (Hewson 1970a).

** *Riccardia plana* (Steph.) Hürl., Bauhinia 5 (4): 205, 1976 (Hürlimann 1976). Bas.: *Aneura plana* Steph., Sp. Hepat. (Stephani) 6: 38, 1917 (Stephani 1917a).

* *Riccardia plana* var. *minor* (Pearson) Hürl. ex H.A.Mill., H.Whittier et B.Whittier, Bryophyt. Biblioth. 25: 303, 1983 (Miller et al. 1983). Bas.: *Aneura plana* var. *minor* Pearson, J. Linn. Soc., Bot. 46 (305): 16, 1922 (Pearson 1922b).

** *Riccardia planifrons* (Spruce) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura planifrons* Spruce, J. Linn. Soc., Bot. 30 (210): 368, 1895 (Gepp 1895b).

*** *Riccardia plumiformis* (Spruce) Hässel ex Meenks, Beih. Nova Hedwigia 88: 101, 1987 (Schultze-Motel and Menzel 1987). Bas.: *Aneura plumiformis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 548, 1885 (Spruce 1885).

** *Riccardia plumosa* (Mitt.) E.O.Campb., J. Roy. Soc. New Zealand 1 (1): 24, 1971 (Campbell 1971). Bas.: *Sarcomitrium plumosum* Mitt., Bonplandia 10 (2): 19, 1862 (Mitten 1862).

*** *Riccardia poeppigiana* (Lehm. et Lindenb.) Hässel ex Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 17, 1985 (Meenks and de Jong 1985). Bas.: *Jungermannia poeppigiana* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 23, 1834 (Lehmann 1834).

** *Riccardia porcina* (Hewson) L.Söderstr., Phytotaxa 202 (1): 70, 2015 (Söderström et al. 2015c). Bas.: *Riccardia bliklika* var. *porcina* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 84, 1970 (Hewson 1970a).

** *Riccardia portoricensis* (Steph.) Pagán, Bryologist 42 (1): 7, 1939 (Pagán 1939a). Bas.: *Aneura portoricensis* Steph., Bull. Herb. Boissier 7 (10): 739 (249), 1899 (Stephani 1899f).

** *Riccardia punahuina* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 526, 1963 (Miller 1963). Bas.: *Aneura punahuina* Steph., Sp. Hepat. (Stephani) 6: 39, 1917 (Stephani 1917a).

** *Riccardia ramosissima* (Steph.) Grolle, Bryophyt. Biblioth. 48: 130, 1995 (Grolle 1995). Bas.: *Aneura ramosissima* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 30 (2): 196, 1891 [1892] (Stephani 1891b).

** *Riccardia regina* Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 17, 1985 (Meenks and de Jong 1985).

*** *Riccardia regnellii* (Ångstr.) K.G.Hell, Bol. Fac. Filos. Univ. São Paulo, Bot. 25: 110, 1969 (Hell 1969). Bas.: *Pseudoneura regnellii* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 90, 1876 [1877] (Ångström 1876).

** *Riccardia reyesiana* Meenks, Acta Bot. Hung. 32 (1/4): 207, 1986 (Meenks 1986).

** *Riccardia riccioides* Pearson, Univ. Calif. Publ. Bot. 10 (4): 310, 1923 (Pearson 1923).

* *Riccardia rigida* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 172, 1898 (Schiffner 1898a).

** *Riccardia robbinsii* Hewson et Grolle, J. Hattori Bot. Lab. 29: 72, 1966 (Grolle 1966i).

** *Riccardia robusta* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura robusta* Steph., Sp. Hepat. (Stephani) 6: 40, 1917 (Stephani 1917a).

** *Riccardia rockii* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura rockii* Steph., Sp. Hepat. (Stephani) 6: 41, 1917 (Stephani 1917a).

** *Riccardia rupicola* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 99, 1970 (Hewson 1970a). Bas.: *Aneura rupicola* Steph., Sp. Hepat. (Stephani) 6: 41, 1917 (Stephani 1917a).

** *Riccardia russellii* R.M.Schust., J. Hattori Bot. Lab. 67: 93, 1989 (Schuster 1989).

** *Riccardia saccatiflora* (Steph.) S.W.Arnell, Bot. Not. 105: 144, 1952 (Arnell 1952b). Bas.: *Aneura saccatiflora* Steph., Bot. Gaz. 15 (11): 282, 1890 (Stephani 1890c).

** *Riccardia santapaui* Udar et S.C.Srivast., Rev. Bryol. Lichénol. 39 (1): 155, 1973 (Udar and Srivastava 1973).

*** *Riccardia schwaneckei* (Steph.) Pagán, Bryologist 42 (1): 7, 1939 (Pagán 1939a). Bas.: *Aneura schwaneckei* Steph., Hedwigia 27 (11/12): 278, 1888 (Stephani 1888c).

** *Riccardia singapurensis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 165, 1898 (Schiffner 1898a).

** *Riccardia smaragdina* Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 20, 1985 (Meenks and de Jong 1985).

*** *Riccardia sprucei* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 22, 1985 (Meenks and de Jong 1985). Bas.: *Aneura sprucei* Steph., Bull. Herb. Boissier 5 (10): 844, 1897 (Stephani 1897c).

** *Riccardia squamifera* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 19, 1964 (Schiffner and Arnell 1964).

* *Riccardia stipatiflora* (Steph.) Pagán, Bryologist 45 (4): 81, 1942 (Pagán 1942b). Bas.: *Aneura stipatiflora* Steph., Hedwigia 32 (1): 27, 1893 (Stephani 1893a).

** *Riccardia stricta* R.M.Schust., J. Hattori Bot. Lab. 62: 326, 1987 (Schuster 1987d).

** *Riccardia subantarctica* Grolle et L.Söderstr., Phytotaxa 202 (1): 70, 2015 (Söderström et al. 2015c). *Nom. nov. pro Riccardia pauciramea* R.M.Schust., J. Hattori Bot. Lab. 67: 102, 1989 (Schuster 1989), *nom. illeg.*

** *Riccardia subexalata* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 163, 1898 (Schiffner 1898a).

* *Riccardia subexalata* var. *procera* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 164, 1898 (Schiffner 1898a).

* *Riccardia submersa* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Jungermannia multifida* var. *submersa* Hook.f. et Taylor, London J. Bot. 4: 94, 1845 (Hooker and Taylor 1845).

** *Riccardia submultifida* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 128, 1934 (Horikawa 1934).

** *Riccardia subpalmata* (Steph.) Hürl., Bauhinia 5 (4): 194, 1976 (Hürlimann 1976). Bas.: *Aneura subpalmata* Steph., Sp. Hepat. (Stephani) 6: 43, 1917 (Stephani 1917a).

** *Riccardia subsimplex* (Steph.) Pagán, Bryologist 45 (4): 81, 1942 (Pagán 1942b). Bas.: *Aneura subsimplex* Steph., Hedwigia 32 (1): 27, 1893 (Stephani 1893a).

** *Riccardia sumatrana* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 173, 1898 (Schiffner 1898a).

** *Riccardia tahitensis* (Steph.) Hürl., Bauhinia 5 (4): 201, 1976 (Hürlimann 1976). Bas.: *Aneura tahitensis* Steph., Bull. Herb. Boissier 7 (10): 728 (238), 1899 (Stephani 1899f).

* *Riccardia tenella* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 95, 1970 (Hewson 1970a).

*** *Riccardia tenuicula* (Spruce) Meenks, Beih. Nova Hedwigia 88: 101, 1987 (Schultze-Motel and Menzel 1987). Bas.: *Aneura tenuicula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 545, 1885 (Spruce 1885).

** *Riccardia tenuis* (Steph.) Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 172, 1898 (Schiffner 1898a). Bas.: *Aneura tenuis* Steph., Hedwigia 32 (1): 28, 1893 (Stephani 1893a).

* *Riccardia tjibodensis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 165, 1898 (Schiffner 1898a).

*** *Riccardia trichomanoides* (Spruce) Hässel ex Meenks, Beih. Nova Hedwigia 88: 101, 1987 (Schultze-Motel and Menzel 1987). Bas.: *Aneura trichomanoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 547, 1885 (Spruce 1885).

** *Riccardia trukensis* H.A.Mill. et Bonner, Beih. Nova Hedwigia 11: 70, 1963 (Miller et al. 1963).

** *Riccardia tumbareriensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 87, 1970 (Hewson 1970a).

** *Riccardia upoluna* (Steph.) Grolle, J. Hattori Bot. Lab. 36: 77, 1972 [1973] (Grolle and Schultze-Motel 1972). Bas.: *Aneura upoluna* Steph., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 91: 165, 1915 (Stephani 1915a).
** *Riccardia valida* (Steph.) J.J.Engel, Bryologist 78 (3): 362, 1975 (Engel 1975). Bas.: *Aneura valida* Steph., Sp. Hepat. (Stephani) 6: 44, 1917 (Stephani 1917a).
** *Riccardia venosa* (Steph.) Hürl., Bauhinia 5 (4): 208, 1976 (Hürlimann 1976). Bas.: *Aneura venosa* Steph., Sp. Hepat. (Stephani) 6: 45, 1917 (Stephani 1917a).
* *Riccardia villosa* (Steph.) Pandé et S.C.Srivast., Biol. Mem. 1 (1/2): 129, 1976 (Srivastava and Udar 1976). Bas.: *Aneura villosa* Steph., Sp. Hepat. (Stephani) 6: 45, 1917 (Stephani 1917a).
** *Riccardia virens* (Steph.) Hürl., Bauhinia 5 (4): 209, 1976 (Hürlimann 1976). Bas.: *Aneura virens* Steph., Sp. Hepat. (Stephani) 6: 45, 1917 (Stephani 1917a).
** *Riccardia virgata* (Gottsche) Pagán, Bryologist 42 (1): 7, 1939 (Pagán 1939a). Bas.: *Aneura virgata* Gottsche, Hedwigia 27 (11/12): 277, 1888 (Stephani 1888c).
** *Riccardia wallisii* (Steph.) Gradst., J. Hattori Bot. Lab. 45: 130, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura wallisii* Steph., Hedwigia 32 (1): 28, 1893 (Stephani 1893a).
** *Riccardia wettsteinii* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 162, 1898 (Schiffner 1898a).
* *Riccardia wettsteinii* var. *angustilimbia* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 163, 1898 (Schiffner 1898a).
* *Riccardia wettsteinii* var. *crassa* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 163, 1898 (Schiffner 1898a).
* *Riccardia wettsteinii* var. *procera* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 162, 1898 (Schiffner 1898a).
* *Riccardia wettsteinii* var. *tenuiretis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 162, 1898 (Schiffner 1898a).
** *Riccardia womersleyana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 98, 1970 (Hewson 1970a).

** ***Verdoornia* R.M.Schust.**, J. Hattori Bot. Lab. 26: 291, 1963 (Schuster 1963b).
*** *Verdoornia succulenta* R.M.Schust., J. Hattori Bot. Lab. 26: 291, 1963 (Schuster 1963b).

*** Metzgeriaceae H.Klinggr.

by D. P. Costa

The treatment of Metzgeriaceae follows what was outlined in Hewson (1982), Kuwahara (1986), Crandall-Stotler and Stotler (2000), and Costa (2008).

*** ***Metzgeria* Raddi**, Jungermanniogr. Etrusca: 34, 1818 (Raddi 1818a). [407]
*** *Metzgeria acuminata* Steph., Bull. Herb. Boissier 7 (12): 934 (282), 1899 (Stephani 1899g).
*** *Metzgeria adscendens* Steph. ex K.I.Goebel, Flora 77: 427, 1893 (Goebel 1893a).
*** *Metzgeria agnewiae* Kuwah., Bryologist 76 (4): 569, 1973 (Kuwahara 1973b). [408]
*** *Metzgeria albinea* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cci, 1889 [1890] (Spruce 1889).
*** *Metzgeria albinea* var. *aberrans* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 27, 1964 (Schiffner and Arnell 1964).
*** *Metzgeria albinea* var. *angusta* (Steph.) D.P.Costa et Gradst., Bryologist 103 (4): 757, 2000 [2001] (Costa and Gradstein 2000). Bas.: *Metzgeria angusta* Steph., Bull. Herb. Boissier 7 (12): 944 (292), 1899 (Stephani 1899g).
*** *Metzgeria allionii* Steph., Sp. Hepat. (Stephani) 6: 47, 1917 (Stephani 1917a).
*** *Metzgeria alpina* R.M.Schust. et J.J.Engel, Brittonia 40 (2): 203, 1988 (Engel and Schuster 1988).
*** *Metzgeria americana* Masuzaki, Hikobia 15 (4): 441, 2010 (Masuzaki et al. 2010a).
*** *Metzgeria attenuata* Steph., Biblioth. Bot. 87 (2): 177, 1916 (Stephani 1916a).
*** *Metzgeria aurantiaca* Steph., Bull. Herb. Boissier 7 (12): 938 (286), 1899 (Stephani 1899g).
*** *Metzgeria auriculata* Grolle et Kuwah., Bryophyt. Biblioth. 28: 194, 1986 (Kuwahara 1986).
*** *Metzgeria bahiensis* Schiffn., Österr. Bot. Z. 61 (7/8): 262, 1911 (Schiffner 1911).
*** *Metzgeria bartlettii* Kuwah., Mem. New York Bot. Gard. 45: 561, 1987 (Kuwahara 1987).
*** *Metzgeria bischlerae* Kuwah., J. Hattori Bot. Lab. 40: 264, 1976 (Kuwahara 1976a).
*** *Metzgeria bracteata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 553, 1885 (Spruce 1885).
*** *Metzgeria brasiliensis* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 22, 1964 (Schiffner and Arnell 1964).
*** *Metzgeria chilensis* Steph., Bull. Herb. Boissier 7 (12): 937 (285), 1899 (Stephani 1899g).
*** *Metzgeria ciliata* Raddi, Critt. Brasil.: 17, 1822 (Raddi 1822). [409]
*** *Metzgeria claviflora* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 556, 1885 (Spruce 1885).
*** *Metzgeria cleefii* Kuwah., Proc. Kon. Ned. Akad. Wetensch. C 85 (3): 360, 1982 (Kuwahara 1982).

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407 *Metzgeria* was divided into many subdivisions proposed by Kuwahara in a series of publications, but they are artificial and not accepted here.

408 *Metzgeria* agnewiae is conspecific with *Metzgeria consanguinea* in So (2004), but it was accepted by Costa (2008).

409 *Metzgeria ciliata* is conspecific with *Metzgeria furcata* in Grolle (2002) and with *Metzgeria dichotoma* in Gradstein and Costa (2003), but it was accepted by Costa (2008).

** *Metzgeria comata* Steph., Bull. Herb. Boissier 7 (12): 939 (287), 1899 (Stephani 1899g).
*** *Metzgeria conjugata* Lindb., Acta Soc. Sci. Fenn. 10: 495, 1875 (Lindberg 1875). [410]
*** *Metzgeria consanguinea* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 271, 1893 (Schiffner 1893a).
*** *Metzgeria convoluta* Steph., Bull. Herb. Boissier 7 (12): 940 (288), 1899 (Stephani 1899g).
** *Metzgeria coorgensis* S.C.Srivast. et S.Srivast., Phytotaxonomy 4: 81, 2004 (Srivastava and Srivastava 2004).
** *Metzgeria corralensis* Steph., Bull. Herb. Boissier 7 (12): 933 (281), 1899 (Stephani 1899g).
*** *Metzgeria crassipilis* (Lindb.) A.Evans, Rhodora 11 (130): 188, 1909 (Evans 1909). Bas.: *Metzgeria furcata* subsp. *crassipilis* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 42, 1877 (Lindberg 1877b).
*** *Metzgeria cratoneura* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 24, 1964 (Schiffner and Arnell 1964).
*** *Metzgeria cylindra* Kuwah., Bryologist 81 (3): 405, 1978 (Kuwahara 1978).
** *Metzgeria decrescens* Steph., Bull. Herb. Boissier 7 (12): 932 (280), 1899 (Stephani 1899g).
*** *Metzgeria dichotoma* (Sw.) Nees, Syn. Hepat. 4: 504, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia dichotoma* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).
** *Metzgeria divaricata* A.Evans, Proc. Amer. Acad. Arts 58 (7): 288, 1923 (Evans 1923a).
*** *Metzgeria dorsipara* (Herzog) Kuwah., J. Hattori Bot. Lab. 40: 269, 1976 (Kuwahara 1976a). Bas.: *Metzgeria violacea* var. *dorsipara* Herzog, Svensk Bot. Tidskr. 51 (1): 187, 1957 (Herzog 1957a).
*** *Metzgeria duricosta* Steph., Sp. Hepat. (Stephani) 6: 50, 1917 (Stephani 1917a).
** *Metzgeria engelii* Kuwah., Hikobia 8 (3/4): 275, 1980 (Kuwahara 1980a).
** *Metzgeria epiphylla* A.Evans, Proc. Amer. Acad. Arts 58 (7): 303, 1923 (Evans 1923a).
*** *Metzgeria filicina* Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 361, 1851 (Mitten 1851).
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* *Metzgeria foliicola* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 181, 1898 (Schiffner 1898a). [411]
*** *Metzgeria francana* Steph., Sp. Hepat. (Stephani) 6: 51, 1917 (Stephani 1917a).
** *Metzgeria frontipilis* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 14, 1877 (Lindberg 1877b).

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410 *Metzgeria conjugata* is a complex taxon. Fuselier et al. (2009) demonstrated the occurrence of two clearly separated lineages, a northern North American lineage (possibly corresponding to *Metzgeria conjugata* s.str.) and a southern North American and European lineage (possibly corresponding to *Metzgeria simplex*).

411 *Metzgeria foliicola* is conspecific with *Metzgeria albinea* in Kuwahara (1986), but it was accepted by So (2002c).

*** *Metzgeria fruticola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 554, 1885 (Spruce 1885).
*** *Metzgeria furcata* (L.) Corda, Gen. hepat.: 654, 1829 (Corda 1829). Bas.: *Jungermannia furcata* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753). [412]
* *Metzgeria furcata* var. *expansa* Douin, Rev. Bryol. 30 (3): 47, 1903 (Douin 1903).
* *Metzgeria furcata* var. *pacifica* Brinkm., Bryologist 34 (2): 15, 1931 (Brinkman 1931).
*** *Metzgeria grandiflora* A.Evans, Torreya 16 (3): 68, 1916 (Evans 1916).
** *Metzgeria hasselii* Kuwah., J. Hattori Bot. Lab. 40: 509, 1976 (Kuwahara 1976c).
** *Metzgeria hebridensis* Steph., Sp. Hepat. (Stephani) 6: 51, 1917 (Stephani 1917a).
*** *Metzgeria hegewaldii* Kuwah., Nova Hedwigia 34: 784, 1981 (Kuwahara 1981).
*** *Metzgeria herminieri* Schiffn., Österr. Bot. Z. 61 (7/8): 261, 1911 (Schiffner 1911).
* *Metzgeria heteroramea* Steph., Biblioth. Bot. 87 (2): 178, 1916 (Stephani 1916a).
** *Metzgeria imberbis* J.B.Jack et Steph., Hedwigia 34 (6): 316, 1895 (Jack and Stephani 1895).
*** *Metzgeria inflata* Steph., Bull. Herb. Boissier 7 (12): 936 (284), 1899 (Stephani 1899g).
*** *Metzgeria jamesonii* Kuwah., Bryophyt. Biblioth. 28: 157, 1986 (Kuwahara 1986).
** *Metzgeria kanaii* Kuwah., Fl. E. Himalaya 2: 240, 1971 (Hattori 1971a).
*** *Metzgeria kinabaluensis* Masuzaki, Hikobia 16 (1): 59, 2011 (Masuzaki 2011). Based on: *Apometzgeria pubescens* var. *kinabaluensis* Kuwah., J. Hattori Bot. Lab. 28: 166, 1965 (Kuwahara 1965), *nom. inval.*
** *Metzgeria kuwaharae* Piippo, Acta Bot. Fenn. 143: 8, 1991 (Piippo 1991).
** *Metzgeria laciniata* Kuwah., Bryologist 81 (3): 406, 1978 (Kuwahara 1978).
*** *Metzgeria lechleri* Steph., Bull. Herb. Boissier 7 (12): 942 (290), 1899 (Stephani 1899g).
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** *Metzgeria leptoneura* var. *breviseta* (Schiffn.) O.Yano, J. Hattori Bot. Lab. 56: 532, 1984 (Yano 1984). Bas.: *Metzgeria hamata* var. *breviseta* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 27, 1964 (Schiffner and Arnell 1964).
** *Metzgeria leptoneura* var. *polychaeta* R.M.Schust., Phytotaxa 202 (1): 70, 2015 (Söderström et al. 2015c). Based on: *Metzgeria leptoneura* var. *polychaeta* R.M.Schust., J. Hattori Bot. Lab. 70: 150, 1991 (Schuster 1991b), *nom. inval.*
*** *Metzgeria liebmaniana* Lindenb. et Gottsche, Syn. Hepat. 4: 505, 1846 (Gottsche et al. 1846).
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412 *Metzgeria furcata* includes several cryptic species as demonstrated by Fuselier et al. (2009).

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** *Metzgeria macveanii* Kuwah., Rev. Bryol. Lichénol. 36 (3/4): 539, 1969 [1970] (Kuwahara 1969b).
*** *Metzgeria maegdefraui* Kuwah., Hikobia 8 (3/4): 269, 1980 (Kuwahara 1980b).
** *Metzgeria magellanica* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 43, 1890 (Schiffner 1890).
*** *Metzgeria metaensis* Kuwah., Proc. Kon. Ned. Akad. Wetensch. C 85 (3): 375, 1982 (Kuwahara 1982).
*** *Metzgeria mexicana* Steph., Sp. Hepat. (Stephani) 6: 55, 1917 (Stephani 1917a).[413]
** *Metzgeria monoica* Kuwah. et J.J.Engel, Hikobia 8 (3/4): 284, 1980 (Kuwahara 1980a).
*** *Metzgeria myriopoda* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 22, 1877 (Lindberg 1877b).
*** *Metzgeria neotropica* Kuwah., Nova Hedwigia 34: 779, 1981 (Kuwahara 1981).
*** *Metzgeria nudifrons* Steph., Hedwigia 31 (3): 126, 1892 (Stephani 1892d).
*** *Metzgeria parviinvolucrata* Kuwah., Nova Hedwigia 34: 774, 1981 (Kuwahara 1981).
** *Metzgeria patagonica* Steph., Bull. Herb. Boissier 7 (12): 940 (288), 1899 (Stephani 1899g).
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*** *Metzgeria procera* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 166, 1855 (Mitten 1855).
*** *Metzgeria psilocraspeda* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 25, 1964 (Schiffner and Arnell 1964).
*** *Metzgeria pubescens* (Schrank) Raddi, Jungermanniogr. Etrusca: 35, 1818 (Raddi 1818a). Bas.: *Jungermannia pubescens* Schrank, Prim. Fl. Salisb.: 231, 1792 (Schrank 1792).
*** *Metzgeria pulvinata* Steph., Biblioth. Bot. 87 (2): 179, 1916 (Stephani 1916a).
** *Metzgeria quadrifaria* Steph., Bull. Herb. Boissier 7 (12): 953 (301), 1899 (Stephani 1899g).
** *Metzgeria raoi* S.C.Srivast. et S.Srivast., Phytotaxonomy 4: 83, 2004 (Srivastava and Srivastava 2004).
** *Metzgeria rigida* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 43, 1877 (Lindberg 1877b).
** *Metzgeria robinsonii* Steph., Sp. Hepat. (Stephani) 6: 60, 1917 (Stephani 1917a).

413 *Metzgeria mexicana* is conspecific with *Metzgeria subundulata* in Schuster (1992b), but it was accepted by Costa (2008).

** *Metzgeria roivainenii* Kuwah., J. Hattori Bot. Lab. 40: 516, 1976 (Kuwahara 1976c).
*** *Metzgeria rufula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 555, 1885 (Spruce 1885).
** *Metzgeria saccata* Mitt., J. Linn. Soc., Bot. 22 (145): 241, 1886 (Mitten 1886a).
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** *Metzgeria scobina* Mitt., J. Linn. Soc., Bot. 22 (145): 243, 1886 (Mitten 1886a).
*** *Metzgeria scyphigera* A.Evans, Trans. Connecticut Acad. Arts 18 (5): 299, 1914 (Evans 1914c).
*** *Metzgeria senjoana* Masuzaki, Hikobia 15 (4): 445, 2010 (Masuzaki et al. 2010a).
** *Metzgeria setigera* R.M.Schust. ex Crand.-Stotl. et L.Söderstr., Phytotaxa 202 (1): 69, 2015 (Söderström et al. 2015c). Based on: *Metzgeria furcata* var. *setigera* R.M.Schust., J. Hattori Bot. Lab. 70: 149, 1991 (Schuster 1991b), *nom. inval.*
** *Metzgeria sikkimensis* S.C.Srivast. et K.K.Rawat, Geophytology 31 (1/2): 71, 2001 [2003] (Srivastava and Rawat 2001).
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*** *Metzgeria sinuata* Loitl., Diagn. pl. nov.: 25, 1894 (Loitlesberger 1894).
** *Metzgeria sparrei* Kuwah., Hikobia 8 (3/4): 278, 1980 (Kuwahara 1980a).
*** *Metzgeria spindleri* Steph., Biblioth. Bot. 87 (2): 179, 1916 (Stephani 1916a).
*** *Metzgeria subaneura* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 22, 1964 (Schiffner and Arnell 1964).
** *Metzgeria submarginata* M.L.So, New Zealand J. Bot. 40 (2): 201, 2002 (So 2002b).
** *Metzgeria subundulata* (Lindb.) Kuwah., Bryologist 86 (3): 276, 1983 [1984] (Kuwahara 1983). Bas.: *Metzgeria furcata* subsp. *subundulata* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 42, 1877 (Lindberg 1877b).
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*** *Metzgeria uncigera* A.Evans, Ann. Bot. (Oxford) 24 (2): 276, 1910 (Evans 1910).
*** *Metzgeria undulata* Kuwah., Nova Hedwigia 34: 792, 1981 (Kuwahara 1981).
*** *Metzgeria violacea* (Ach.) Dumort., Recueil Observ. Jungerm.: 26, 1835 (Dumortier 1835). Bas.: *Jungermannia violacea* Ach., Beitr. Naturk. (Weber & Mohr) 1: 77, 1805 (Acharius 1805).

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*** *Steereella lilliana* (Steph.) Kuwah., Bryophyt. Biblioth. 28: 179, 1986 (Kuwahara 1986). Bas.: *Metzgeria lilliana* Steph., Sp. Hepat. (Stephani) 6: 53, 1917 (Stephani 1917a).
*** *Steereella linearis* (Sw.) Kuwah., Amer. J. Bot. 60 (6): 604, 1973 (Kuwahara 1973a). Bas.: *Jungermannia linearis* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).

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** *Vandiemenia ratkowskiana* Hewson, J. Hattori Bot. Lab. 52: 163, 1982 (Hewson 1982).

Pleuroziales Schljakov

*** Pleuroziaceae Müll.Frib.

by B. Thiers

*** ***Pleurozia* Dumort.**, Recueil Observ. Jungerm.: 15, 1835 (Dumortier 1835).

** **subg. *Constantifolia* B.M.Thiers**, Bryologist 96 (4): 526, 1993 (Thiers 1993).
*** *Pleurozia conchifolia* (Hook. et Arn.) Austin, Bull. Torrey Bot. Club 5 (3): 16, 1874 (Austin 1874). Bas.: *Jungermannia conchifolia* Hook. et Arn., Bot. Beechey Voy. 3: 110, 1832 (Hooker and Arnott 1832).
** *Pleurozia conchifolia* var. *papillosa* B.M.Thiers, Bryologist 96 (4): 528, 1993 (Thiers 1993).
*** *Pleurozia purpurea* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 27, 1877 (Lindberg 1877b). Based on: *Jungermannia purpurea* Lightf., Fl. Scot. 2: 778, 1777 (Lightfoot 1777), *nom. illeg*.

** **subg. *Diversifolia* B.M.Thiers**, Bryologist 96 (4): 531, 1993 (Thiers 1993).
*** *Pleurozia acinosa* (Mitt.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 412, 1877 (Trevisan 1877). Bas.: *Physiotium acinosum* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 102, 1860 [1861] (Mitten 1860c).
*** *Pleurozia articulata* (Lindb.) Lindb. et Lackström, Hepat. Scand. Exsicc.: 5 (adnot.), 1874 (Lindberg and Lackström 1874). Bas.: *Physiotium articulatum* Lindb., Öfvers. Förh. Finska Vetensk.-Soc. 12 (2): 78, 1870 (Lindberg 1870).
*** *Pleurozia caledonica* (Gottsche) Steph., Rev. Bryol. 33 (2): 29 (Paris 1906a). Bas.: *Physiotium caledonicum* Gottsche, Hedwigia 25 (2/3): 81, 1886 (Jack 1886).
*** *Pleurozia curiosa* B.M.Thiers, Bryologist 96 (4): 537, 1993 (Thiers 1993).
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*** *Pleurozia johannis-winkleri* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 195, 1931 (Herzog 1931a).
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*** *Pleurozia subinflata* (Austin) Austin, Bull. Torrey Bot. Club 5 (3): 16, 1874 (Austin 1874). Bas.: *Physiotium subinflatum* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 224, 1869 (Austin 1869).

** **subg. *Pleurozia***
*** *Pleurozia gigantea* (F.Weber) Lindb., Hepat. Scand. Exsicc.: no. 5, 1874 (Lindberg and Lackström 1874). Bas.: *Jungermannia gigantea* F.Weber, Hist. Musc. Hepat. Prodr.: 57, 1815 (Weber 1815).

Incertae sedis

** *Pleurozia pocsii* Frank Müll., Polish Bot. J. 58 (1): 50, 2013 (Müller 2013).

Pelliidae He-Nygrén, Juslén, Ahonen, Glenny et Piippo
Fossombroniales Schljakov
Calyculariineae He-Nygrén, Juslén, Ahonen, Glenny et Piippo

*** Calyculariaceae He-Nygrén, Juslén, Ahonen, Glenny et Piippo

*** ***Calycularia* Mitt.**, J. Proc. Linn. Soc., Bot. 5 (18): 122, 1860 [1861] (Mitten 1860c).
*** *Calycularia crispula* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 122, 1860 [1861] (Mitten 1860c).
*** *Calycularia laxa* Lindb. et Arnell, Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 23 (5): 66, 1889 (Lindberg and Arnell 1889).

Fossombroniineae R.M.Schust. ex Stotler et Crand.-Stotl.

** Allisoniaceae Schljakov

*** ***Allisonia* Herzog**, Hedwigia 80 (1/2): 77, 1941 (Herzog 1941a).
*** *Allisonia cockaynei* (K.I.Goebel) R.M.Schust., J. Hattori Bot. Lab. 26: 294, 1963 (Schuster 1963b). Bas.: *Moerckia cockaynei* K.I.Goebel, Flora 96: 190, 1906 (Goebel 1906).

*** Fossombroniaceae Hazsl. *nom. conserv.*

by R. Stotler, B. J. Crandall-Stotler and D. C. Cargill

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*** *Fossombronia alaskana* Steere et Inoue, Bryologist 77 (1): 66, 1974 (Steere and Inoue 1974).
*** *Fossombronia alata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 340, 1984 (Scott and Pike 1984).
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*** *Fossombronia angulosa* (Dicks.) Raddi, Jungermanniogr. Etrusca: 29, 1818 (Raddi 1818a). Bas.: *Jungermannia angulosa* Dicks., Fasc. Pl. Crypt. Brit. 1: 7, 1785 (Dickson 1785).

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** *Fossombronia auricolor* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia auricolor* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 370, 1987 (Scott and Pike 1987), *nom. inval.*
*** *Fossombronia australis* Mitt., J. Linn. Soc., Bot. 15 (82): 73, 1876 (Mitten 1876a).
*** *Fossombronia caespitiformis* (Raddi) De Not. ex Rabenh., Hepat. Eur., Leberm. 13-14: no. 123, 1860 [1861] (Rabenhorst 1860). Bas.: *Fossombronia angulosa* var. *caespitiformis* Raddi, Jungermanniogr. Etrusca: 30, 1818 (Raddi 1818a).
*** *Fossombronia caespitiformis* subsp. *multispira* (Schiffn.) J.R.Bray et Cargill, Bryologist 106 (1): 131, 2003 (Stotler et al. 2003). Bas.: *Fossombronia caespitiformis* var. *multispira* Schiffn., Österr. Bot. Z. 67 (4/5): 152, 1918 (Schiffner 1918).
*** *Fossombronia caledonica* Steph., Sp. Hepat. (Stephani) 6: 71, 1917 (Stephani 1917a).
*** *Fossombronia cederbergensis* Perold, Bothalia 28 (1): 1, 1998 (Perold 1998c).
*** *Fossombronia cerebriformis* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 343, 1984 (Scott and Pike 1984).
*** *Fossombronia crassifolia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 527, 1885 (Spruce 1885).
*** *Fossombronia crispa* Nees, Syn. Hepat. 4: 469, 1846 (Gottsche et al. 1846).
* *Fossombronia crispula* (Brot.) R.M.Schust., Hepat. Anthocerotae N. Amer. 5: 383, 1992 (Schuster 1992b). Bas.: *Jungermannia crispula* Brot., Fl. lusit. 2: 422, 1804 [1805] (Brotero 1804). [414]
*** *Fossombronia cristula* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 228, 1869 (Austin 1869).
*** *Fossombronia cultriformis* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 371, 1987 (Scott and Pike 1987).
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*** *Fossombronia echinata* Macvicar, Rev. Bryol. 38 (4): 73, 1911 (Macvicar 1911).
*** *Fossombronia elsieae* Perold, Bothalia 29 (1): 25, 1999 (Perold 1999c).
*** *Fossombronia fernandeziensis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n. ser.) 46 (9): 15, 1911 (Stephani 1911b).
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*** *Fossombronia foveolata* Lindb., Helsingf. Dagbl. 1873 (353, 28 Dec): 2, 1873 (Lindberg 1873b).
** *Fossombronia fuhreri* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 374, 1987 (Scott and Pike 1987).

414 *Fossombronia crispula* is based on the description most likely *Fossombronia pusilla*, but no material has been found.

*** *Fossombronia gemmifera* Perold, Bothalia 27 (1): 19, 1997 (Perold 1997a).
*** *Fossombronia glenii* Perold, Bothalia 27 (1): 20, 1997 (Perold 1997a).
** *Fossombronia grandis* Steph., Mém. Herb. Boissier 16: 29 (383), 1900 (Stephani 1900a).
* *Fossombronia gregaria* Colenso, Trans. & Proc. New Zealand Inst. 20: 252, 1888 (Colenso 1888). [415]
* *Fossombronia grossepapillata* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 105, 1914 (Stephani and Watts 1914). [416]
*** *Fossombronia hamatohirta* Steph., Hedwigia 33 (1): 8, 1894 (Stephani 1894a).
** *Fossombronia hewsoniae* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 375, 1987 (Scott and Pike 1987).
*** *Fossombronia himalayensis* Kashyap, New Phytol. 14 (1): 4, 1915 (Kashyap 1915).
*** *Fossombronia hyalorhiza* Perold, Bothalia 29 (1): 83, 1999 (Perold 1999d).
*** *Fossombronia incurva* Lindb., Helsingf. Dagbl. 1873 (273, 7 Oct): 2, 1873 (Lindberg 1873c).
*** *Fossombronia indica* Steph., Sp. Hepat. (Stephani) 6: 73, 1917 (Stephani 1917a).
* *Fossombronia integerrima* Steph., Mém. Herb. Boissier 16: 40 (394), 1900 (Stephani 1900a). [417]
* *Fossombronia integrifolia* Steph., Sp. Hepat. (Stephani) 6: 73, 1917 (Stephani 1917a). [418]
*** *Fossombronia intestinalis* Taylor, London J. Bot. 5: 408, 1846 (Taylor 1846b).
*** *Fossombronia japonica* Schiffn., Österr. Bot. Z. 49 (11): 389, 1899 (Schiffner 1899c).
** *Fossombronia laciniata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 375, 1987 (Scott and Pike 1987).
*** *Fossombronia lamellata* Steph., Hedwigia 33 (1): 9, 1894 (Stephani 1894a).
*** *Fossombronia leucoxantha* (Lehm.) Lehm. et Lindenb., Syn. Hepat. 4: 469, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia leucoxantha* Lehm., Linnaea 4: 368, 1829 (Lehmann 1829).
*** *Fossombronia longiseta* (Austin) Austin, Hepat. bor.-amer.: 30, 1873 (Austin 1873). Bas.: *Androcryphia longiseta* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 228, 1869 (Austin 1869).
*** *Fossombronia lophoclada* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 529, 1885 (Spruce 1885).
** *Fossombronia lophoscypha* Hässel, Beih. Nova Hedwigia 131: 16, 2007 (Hässel and Villagrán 2007).
*** *Fossombronia luetzelburgiana* K.I.Goebel, Flora 105: 55, 1912 (Goebel 1912).
*** *Fossombronia macrocalyx* Steph., Sp. Hepat. (Stephani) 6: 74, 1917 (Stephani 1917a).

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415 *Fossombronia gregaria* is possibly conspecific with *Fossombronia australis* (Scott and Pike 1988b).

416 *Fossombronia grossepapillata* may be conspecific with *Fossombronia papillata*, but the type specimen is too immature to allow determination (Scott and Pike 1984).

417 *Fossombronia integerrima* is possibly conspecific with *Fossombronia australis*.

418 *Fossombronia integrifolia* is possibly conspecific with *Fossombronia foveolata* (Scott and Pike 1984).

* *Fossombronia macrophylla* Colenso, Trans. & Proc. New Zealand Inst. 18: 285, 1886 (Colenso 1886a).

** *Fossombronia magnaspora* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia magnaspora* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 377, 1987 (Scott and Pike 1987), *nom. inval.*

*** *Fossombronia marindae* Perold, Bothalia 29 (1): 86, 1999 (Perold 1999d).

** *Fossombronia maritima* (Paton) Paton, J. Bryol. 18 (2): 367, 1994 (Paton 1994). Bas.: *Fossombronia pusilla* var. *maritima* Paton, J. Bryol. 7 (3): 244, 1973 (Paton 1973).

*** *Fossombronia marshii* J.R.Bray et Stotler, Phytologia 92 (2): 230, 2010 (Stotler et al. 2010).

** *Fossombronia microlamellata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 347, 1984 (Scott and Pike 1984).

*** *Fossombronia mittenii* Tind., J. Bot. 36: 44, 1898 (Tindall 1898).

*** *Fossombronia montaguensis* S.W.Arnell, Bot. Not. 105: 316, 1952 (Arnell 1952a).

*** *Fossombronia monticola* Perold, Bothalia 29 (1): 87, 1999 (Perold 1999d).

*** *Fossombronia mylioides* Inoue, J. Hattori Bot. Lab. 37: 296, 1973 (Inoue 1973).

* *Fossombronia nigricaulis* Colenso, Trans. & Proc. New Zealand Inst. 18: 248, 1886 (Colenso 1886b). [419]

** *Fossombronia nyikaensis* Perold, Bothalia 31 (1): 48, 2001 (Perold 2001c).

*** *Fossombronia papillata* Steph., Hedwigia 28 (3): 157, 1889 (Stephani 1889d).

*** *Fossombronia paranapanemae* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 34, 1964 (Schiffner and Arnell 1964).

*** *Fossombronia peruviana* Gottsche et Hampe, Linnaea 27 (5): 555, 1854 (Hampe 1854).

*** *Fossombronia porphyrorhiza* (Nees) Prosk., Bryologist 58 (3): 197, 1955 (Proskauer 1955). Bas.: *Jungermannia porphyrorhiza* Nees, Fl. Bras. (Martius) 1 (1): 343, 1833 (Nees 1833a).

** *Fossombronia pulvinata* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 113, 1911 (Stephani 1911a).

*** *Fossombronia punctata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 341, 1984 (Scott and Pike 1984).

*** *Fossombronia purpureospora* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia purpureospora* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 379, 1987 (Scott and Pike 1987), *nom. inval.*

*** *Fossombronia pusilla* (L.) Nees, Naturgesch. Eur. Leberm. 3: 319, 1838 (Nees 1838b). Bas.: *Jungermannia pusilla* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).

*** *Fossombronia renateae* Perold, Bothalia 29 (1): 77, 1999 (Perold 1999b).

*** *Fossombronia reticulata* Steph., Hedwigia 33 (1): 9, 1894 (Stephani 1894a).

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419 *Fossombronia nigricaulis* is possibly conspecific with *Fossombronia australis* (Scott and Pike 1984).

* *Fossombronia rosulata* Colenso, Trans. & Proc. New Zealand Inst. 18: 248, 1886 (Colenso 1886b).

** *Fossombronia rudis* G.A.M.Scott et D.C.Pike, Beih. Nova Hedwigia 90: 110, 1988 (Scott and Pike 1988a).

*** *Fossombronia ruminata* Cargill, Phytotaxa 65: 45, 2012 (Cargill et al. 2012). *Nom. nov. pro Fossombronia maritima* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003), *nom. illeg.*

** *Fossombronia rupestris* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia rupestris* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 381, 1987 (Scott and Pike 1987), *nom. inval.*

*** *Fossombronia rwandaensis* Perold, Bothalia 28 (1): 45, 1998 (Perold 1998a).

*** *Fossombronia scrobiculata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 341, 1984 (Scott and Pike 1984).

*** *Fossombronia spinifolia* Steph., Mém. Herb. Boissier 16: 35 (389), 1900 (Stephani 1900a).

* *Fossombronia spinosa* Perold, Bothalia 29 (1): 29, 1999 (Perold 1999c).

*** *Fossombronia stephanii* Schiffn. ex Steph., Mém. Herb. Boissier 16: 27 (381), 1900 (Stephani 1900a).

*** *Fossombronia straussiana* Perold, Bothalia 27 (1): 24, 1997 (Perold 1997a).

* *Fossombronia subsaccata* Steph., Sp. Hepat. (Stephani) 6: 75, 1917 (Stephani 1917a). [420]

*** *Fossombronia swaziensis* Perold, Bothalia 28 (2): 162, 1998 (Perold 1998b).

** *Fossombronia tesselata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 382, 1987 (Scott and Pike 1987).

*** *Fossombronia texana* Lindb., Acta Soc. Sci. Fenn. 10: 533, 1875 (Lindberg 1875).

*** *Fossombronia truncata* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia truncata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 383, 1987 (Scott and Pike 1987), *nom. inval.*

*** *Fossombronia tumida* Mitt., J. Linn. Soc., Bot. 16 (91): 193, 1877 (Mitten 1877).

** *Fossombronia valparaisiana* Hässel, Beih. Nova Hedwigia 131: 14, 2007 (Hässel and Villagrán 2007).

** *Fossombronia vermiculata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 345, 1984 (Scott and Pike 1984).

*** *Fossombronia wattsii* Steph., Sp. Hepat. (Stephani) 6: 75, 1917 (Stephani 1917a).

*** *Fossombronia wondraczekii* (Corda) Dumort. ex Lindb., Helsingf. Dagbl. 1873 (273, 7 Oct): 2, 1873 (Lindberg 1873c). Bas.: *Jungermannia wondraczekii* Corda, Deutschl. Fl. (Sturm), Abt. 2, Cryptog.: 30, 1830 (Corda 1830).

*** *Fossombronia wrightii* Austin, Bot. Bull. (Hanover) 1 (8): 36, 1876 (Austin 1876a).

** *Fossombronia zuurbergensis* Perold, Bothalia 31 (1): 25, 2001 (Perold 2001b).

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420 *Fossombronia subsaccata* has a sterile and unidentifiable type specimen (Scott and Pike 1988b).

*** Petalophyllaceae Stotler et Crand.-Stotl.

by R. Stotler and B.J. Crandall-Stotler

*** ***Petalophyllum*** **Nees et Gottsche**, Nov. Stirp. Pug. 8: 29, 1844 (Lehmann 1844).
*** *Petalophyllum americanum* C.H.Ford et Crand.-Stotl., Novon 12 (3): 335, 2002 (Crandall-Stotler et al. 2002).
*** *Petalophyllum hodgsoniae* C.H.Ford et Crand.-Stotl., Novon 12 (3): 336, 2002 (Crandall-Stotler et al. 2002).
*** *Petalophyllum indicum* Kashyap, J. Indian Bot. Soc. 7: 14, 1928 (Kashyap 1928).
*** *Petalophyllum preissii* Gottsche, Nov. Stirp. Pug. 8: 30, 1844 (Lehmann 1844).
*** *Petalophyllum ralfsii* (Wilson) Nees et Gottsche, Nov. Stirp. Pug. 8: 30, 1844 (Lehmann 1844). Bas.: *Jungermannia ralfsii* Wilson, Suppl. Engl. Bot. 4: tab. 2874, 1849 (Borrer et al. 1849).

*** ***Sewardiella*** **Kashyap**, New Phytol. 14 (1): 5, 1915 (Kashyap 1915).
*** *Sewardiella tuberifera* Kashyap, New Phytol. 14 (1): 5, 1915 (Kashyap 1915).
Makinoiineae He-Nygrén, Juslén, Ahonen, Glenny et Piippo

*** Makinoaceae Nakai

by R. Stotler and B.J. Crandall-Stotler

*** ***Makinoa*** **Miyake**, Bot. Mag. (Tokyo) 13 (144): 23, 1899 (Miyake 1899).
*** *Makinoa crispata* (Steph.) Miyake, Bot. Mag. (Tokyo) 13 (144): 23, 1899 (Miyake 1899). Bas.: *Pellia crispata* Steph., Bull. Herb. Boissier 5 (2): 103, 1897 (Stephani 1897b).

Pallaviciniales W.Frey et M.Stech
Pallaviciniineae R.M.Schust.

*** Hymenophytaceae R.M.Schust.

by R. Stotler and B.J. Crandall-Stotler

*** ***Hymenophyton*** **Dumort.**, Recueil Observ. Jungerm.: 25, 1835 (Dumortier 1835).
*** *Hymenophyton flabellatum* (Labill.) Dumort. ex Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 430, 1877 (Trevisan 1877). Bas.: *Jungermannia flabellata* Labill., Nov. Holl. Pl. 2: 109, 1806 (Labillardière 1806).
*** *Hymenophyton leptopodum* (Hook.f. et Taylor) A.Evans, Trans. Connecticut Acad. Arts 8 (16): 274, 1893 (Evans 1893). Bas.: *Jungermannia leptopoda* Hook.f. et Taylor, London J. Bot. 3: 571, 1844 (Hooker and Taylor 1844d).

*** *Hymenophyton pedicellatum* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n. ser.) 46 (9): 11, 1911 (Stephani 1911b).

*** Moerckiaceae K.I.Goebel ex Stotler et Crand.-Stotl.

by B.J. Crandall-Stotler and R. Stotler

Mamontov et al. (2015) showed that the family Moerckiaceae is heterogeneous and they moved *Hattorianthus* and *Moerckia flotoviana* to their new family Cordaeaceae. However, the type of Moerckiaceae (*Moerckia hibernica*) was not included in the study and only provisionally left in *Moerckia*. We prefer to follow Crandall-Stotler & Stotler (2007) until *M. hibernica* is further studied.

*** ***Hattorianthus* R.M.Schust. et Inoue**, Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 103, 1975 (Schuster and Inoue 1975).
*** *Hattorianthus erimonus* (Steph.) R.M.Schust. et Inoue, Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 106, 1975 (Schuster and Inoue 1975). Bas.: *Pallavicinia erimona* Steph., Bull. Herb. Boissier 5 (2): 102, 1897 (Stephani 1897b).

*** ***Moerckia* Gottsche**, Hepat. Eur., Leberm. 13-14: no. 121, 1860 [1861] (Rabenhorst 1860).
*** *Moerckia blyttii* (Mørch) Brockm., Arch. Vereins Freunde Naturgesch. Mecklenburg 17: 190, 1863 (Brockmüller 1863). Bas.: *Jungermannia blyttii* Mørch, Fl. Danica 12: 6, 1830 (Hornemann 1830).
*** *Moerckia flotoviana* (Nees) Schiffn., Österr. Bot. Z. 51 (2): 43, 1901 (Schiffner 1901). Bas.: *Cordaea flotoviana* Nees, Flora 16 (26): 405, 1833 (Nees 1833b).
*** *Moerckia hibernica* (Hook.) Gottsche, Hepat. Eur., Leberm. 13-14: no. 121, 1860 [1861] (Rabenhorst 1860). Bas.: *Jungermannia hibernica* Hook., Brit. Jungermann.: tab. 78, 1816 (Hooker 1816a).

*** Pallaviciniaceae Mig.

by R. Stotler and B.J. Crandall-Stotler

** Pallavicinioideae Mig. ex Grolle

*** ***Jensenia* Lindb.**, Not. Sällsk. Fauna Fl. Fenn. Förh. 9: 13, 1868 (Lindberg 1868a).
*** *Jensenia connivens* (Colenso) Grolle, Rev. Bryol. Lichénol. 33 (1/2): 228, 1964 [1965] (Grolle 1964j). Bas.: *Symphyogyna connivens* Colenso, Trans. & Proc. New Zealand Inst. 20: 254, 1888 (Colenso 1888).

* *Jensenia crassifrons* (Steph.) S.Schuette et Stotler, J. Hattori Bot. Lab. 97: 300, 2005 (Schuette and Stotler 2005). Bas.: *Pallavicinia crassifrons* Steph., Mém. Herb. Boissier 11: 21 (325), 1900 (Stephani 1900c). [421]

*** *Jensenia decipiens* (Mitt.) Grolle, Rev. Bryol. Lichénol. 33 (1/2): 228, 1964 [1965] (Grolle 1964j). Bas.: *Steetzia decipiens* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 123, 1860 [1861] (Mitten 1860c).

*** *Jensenia difformis* (Nees) Grolle, Rev. Bryol. Lichénol. 33 (1/2): 228, 1964 [1965] (Grolle 1964j). Bas.: *Jungermannia difformis* Nees, Fl. Bras. (Martius) 1 (1): 329, 1833 (Nees 1833a).

*** *Jensenia florschuetzii* Gronde, Proc. Kon. Ned. Akad. Wetensch. C 83 (3): 273, 1980 (Van der Gronde 1980).

*** *Jensenia spinosa* (Lindenb. et Gottsche) Grolle, Acta Bot. Fenn. 133: 65, 1986 (Grolle and Piippo 1986). Bas.: *Symphyogyna spinosa* Lindenb. et Gottsche, Syn. Hepat. 5: 786, 1847 (Gottsche et al. 1847).

*** *Jensenia wallisii* (J.B.Jack et Steph.) Grolle, Rev. Bryol. Lichénol. 33 (1/2): 228, 1964 [1965] (Grolle 1964j). Bas.: *Pallavicinia wallisii* J.B.Jack et Steph., Hedwigia 31 (1): 23, 1892 (Jack and Stephani 1892).

*** ***Pallavicinia* Gray**, Nat. Arr. Brit. Pl. 1: 775, 1821 (Gray 1821) nom. conserv.

*** *Pallavicinia ambigua* (Mitt.) Steph., Mém. Herb. Boissier 11: 8 (312), 1900 (Stephani 1900a). Bas.: *Steetzia ambigua* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 123, 1860 [1861] (Mitten 1860c).

** *Pallavicinia baldwinii* (Austin) A.Evans, Trans. Connecticut Acad. Arts 8 (15): 259, 1891 (Evans 1891). Bas.: *Steetzia baldwinii* Austin, Bull. Torrey Bot. Club 6 (52): 303, 1879 (Austin 1879).

* *Pallavicinia bipinnata* Steph., Sp. Hepat. (Stephani) 6: 62, 1917 (Stephani 1917a).

** *Pallavicinia camisassai* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 4, 1916 (Gola 1916).

** *Pallavicinia cylindrica* (Austin) A.Evans, Trans. Connecticut Acad. Arts 8 (15): 259, 1891 (Evans 1891). Bas.: *Steetzia cylindrica* Austin, Bull. Torrey Bot. Club 5 (3): 17, 1874 (Austin 1874).

** *Pallavicinia himalayensis* Schiffn., Mém. Herb. Boissier 11: 13 (317), 1900 (Stephani 1900c).

*** *Pallavicinia indica* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 183, 1898 (Schiffner 1898a).

*** *Pallavicinia levieri* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 184, 1898 (Schiffner 1898a).

*** *Pallavicinia lyellii* (Hook.) Gray, Nat. Arr. Brit. Pl. 1: 775, 1821 (Gray 1821). Bas.: *Jungermannia lyellii* Hook., Brit. Jungermann.: tab. 77, 1816 (Hooker 1816a).

** *Pallavicinia pilifera* Steph., Hedwigia 30 (6): 271, 1891 (Stephani 1891c).

** *Pallavicinia purpurea* Steph., Sp. Hepat. (Stephani) 6: 64, 1917 (Stephani 1917a).

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421 *Jensenia crassifrons* is possibly conspecific with *Jensenia difformis*.

** *Pallavicinia ridleyi* Steph., Sp. Hepat. (Stephani) 6: 64, 1917 (Stephani 1917a).
*** *Pallavicinia rubristipa* Schiffn., Österr. Bot. Z. 56 (1): 24, 1906 (Schiffner 1906b).
*** *Pallavicinia subciliata* (Austin) Steph., Mém. Herb. Boissier 11: 9 (313), 1900 (Stephani 1900c). Bas.: *Steetzia subciliata* Austin, Bull. Torrey Bot. Club 6 (52): 303, 1879 (Austin 1879).
*** *Pallavicinia xiphoides* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 427, 1877 (Trevisan 1877). Bas.: *Jungermannia xiphoides* Hook.f. et Taylor, London J. Bot. 3: 569, 1844 (Hooker and Taylor 1844d).

*** ***Podomitrium* Mitt.**, Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 164, 1855 (Mitten 1855).
*** *Podomitrium malaccense* (Steph.) Campb., Amer. J. Bot. 2 (5): 199, 1915 (Campbell 1915). Bas.: *Hymenophyton malaccense* Steph., Hedwigia 34 (2): 46, 1895 (Stephani 1895c).
*** *Podomitrium marginatum* (Steph.) Hürl., Bauhinia 4 (1): 78, 1968 [1969] (Hürlimann 1968). Bas.: *Hymenophyton marginatum* Steph., Sp. Hepat. (Stephani) 6: 61, 1917 (Stephani 1917a).
*** *Podomitrium phyllanthus* (Hook.) Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 164, 1855 (Mitten 1855). Bas.: *Jungermannia phyllanthus* Hook., Musci Exot. 1: tab. 95, 1818 (Hooker 1818).

** Symphyogynoideae R.M.Schust. ex Grolle

** ***Greeneothallus* Hässel**, J. Bryol. 11 (1): 115, 1980 (Hässel 1980).
*** *Greeneothallus gemmiparus* Hässel, J. Bryol. 11 (1): 115, 1980 (Hässel 1980).

*** ***Seppeltia* Grolle**, J. Hattori Bot. Lab. 60: 276, 1986 (Grolle and Seppelt 1986).
*** *Seppeltia succuba* Grolle, J. Hattori Bot. Lab. 60: 276, 1986 (Grolle and Seppelt 1986).

*** ***Symphyogyna* Nees et Mont.**, Ann. Sci. Nat. Bot. (sér. 2) 5: 66, 1836 (Nees and Montagne 1836).
*** *Symphyogyna apiculispina* Steph., Biblioth. Bot. 87 (2): 180, 1916 (Stephani 1916a).
*** *Symphyogyna aspera* Steph. ex F.A.McCormick, Bot. Gaz. 58 (5): 403, 1914 (McCormick 1914).
** *Symphyogyna atronervia* Taylor, London J. Bot. 5: 409, 1846 (Taylor 1846b).
** *Symphyogyna bogotensis* Steph., Mém. Herb. Boissier 11: 42 (346), 1900 (Stephani 1900c). Based on: *Symphyogyna hymenophyllum* var. *bogotensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 181, 1864 (Gottsche 1864), *nom. inval.*
* *Symphyogyna boliviensis* Steph., Biblioth. Bot. 87 (2): 180, 1916 (Stephani 1916a).
*** *Symphyogyna brasiliensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 67, 1836 (Nees and Montagne 1836). *Nom. nov. pro Jungermannia brasiliensis* Nees, Enum. Pl. Crypt. Javae: 11, 1830 (Nees 1830), *nom. illeg.*
** *Symphyogyna brasiliensis* var. *angustior* (Gottsche, Lindenb. et Nees) Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 183, 1864 (Gottsche 1864). Bas.: *Symphyogyna brasiliensis*

β *angustior* Gottsche, Lindenb. et Nees, Syn. Hepat. 4: 484, 1846 (Gottsche et al. 1846).

** *Symphyogyna brasiliensis* var. *subsinuata* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 32, 1964 (Schiffner and Arnell 1964).

*** *Symphyogyna brongniartii* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 265, 1843 (Montagne 1843).

*** *Symphyogyna circinata* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 69, 1836 (Nees and Montagne 1836).

*** *Symphyogyna digitisquama* Steph., Mém. Herb. Boissier 11: 31 (335), 1900 (Stephani 1900c).

** *Symphyogyna fuscovirens* A.Evans, Trans. Connecticut Acad. Arts 28 (6): 320, 1927 (Evans 1927).

*** *Symphyogyna hochstetteri* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 68, 1836 (Nees and Montagne 1836).

*** *Symphyogyna hymenophyllum* (Hook.) Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 68, 1836 (Nees and Montagne 1836). Bas.: *Jungermannia hymenophyllum* Hook., Musci Exot. 1: tab. 14, 1818 (Hooker 1818).

** *Symphyogyna hymenophyllum* var. *heterogenum* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 536, 1885 (Spruce 1885).

** *Symphyogyna ignambiensis* Hürl., Bauhinia 4 (1): 79, 1968 [1969] (Hürlimann 1968).

** *Symphyogyna interrupta* Carrington et Pearson, Proc. Linn. Soc. New South Wales (ser. 2) 2 (4): 1053, 1888 (Carrington and Pearson 1888a).

** *Symphyogyna irregularis* Steph., Mém. Herb. Boissier 11: 29 (333), 1900 (Stephani 1900c).

** *Symphyogyna lacerosquama* Steph., Sp. Hepat. (Stephani) 6: 67, 1917 (Stephani 1917a).

*** *Symphyogyna leptothelia* Taylor, London J. Bot. 5: 408, 1846 (Taylor 1846b).

** *Symphyogyna lindmanii* A.Evans, Trans. Connecticut Acad. Arts 28 (6): 316, 1927 (Evans 1927).

*** *Symphyogyna luetzelburgii* Herzog, Repert. Spec. Nov. Regni Veg. 21 (1/7): 22, 1925 (Herzog 1925a).

*** *Symphyogyna marginata* Steph., Mém. Herb. Boissier 11: 30 (334), 1900 (Stephani 1900c).

*** *Symphyogyna mexicana* Steph., Rev. Bryol. 36 (6): 140, 1909 (Stephani 1909b).

** *Symphyogyna multiflora* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 133, 1914 (Stephani and Watts 1914).

* *Symphyogyna paucidens* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 13, 1911 (Stephani 1911b). [422]

*** *Symphyogyna podophylla* (Thunb.) Nees et Mont., Flora 29 (9): 135, 1846 (Krauss 1846). Bas.: *Jungermannia podophylla* Thunb., Prodr. Pl. Cap. 2: 174, 1800 (Thunberg 1800).

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422 *Symphyogyna paucidens* is a doubtful taxon. Hässel and Rubies (2009) could not find the type specimen.

* *Symphyogyna purpureolimbata* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 95, 1965 (Hodgson 1965).
*** *Symphyogyna rectidens* Grolle, Acta Bot. Fenn. 133: 68, 1986 (Grolle and Piippo 1986).
** *Symphyogyna rhodina* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 4: 487, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia rhodina* Hook.f. et Taylor, London J. Bot. 4: 93, 1845 (Hooker and Taylor 1845).
*** *Symphyogyna rubescens* Steph., Mém. Herb. Boissier 11: 29 (333), 1900 (Stephani 1900c).
*** *Symphyogyna rubritincta* A.Evans, Trans. Connecticut Acad. Arts 27 (1): 38, 1925 (Evans 1925).
** *Symphyogyna semi-involucrata* Austin, Bull. Torrey Bot. Club 5 (3): 15, 1874 (Austin 1874).
** *Symphyogyna similis* Grolle, Acta Bot. Fenn. 133: 70, 1986 (Grolle and Piippo 1986).
*** *Symphyogyna sinuata* (Sw.) Nees et Mont., Voy. Amér. Mérid., Bot. 7 (1): 61, 1839 (Montagne 1839b). Bas.: *Jungermannia sinuata* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).
*** *Symphyogyna subsimplex* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 166, 1855 (Mitten 1855).
*** *Symphyogyna tenuinervis* (Hook.f. et Taylor) Grolle, J. Hattori Bot. Lab. 61: 253, 1986 [1987] (Grolle 1986a). Bas.: *Jungermannia tenuinervis* Hook.f. et Taylor, London J. Bot. 3: 570, 1844 (Hooker and Taylor 1844d).
*** *Symphyogyna trivittata* Spruce, J. Linn. Soc., Bot. 30 (210): 365, 1895 (Gepp 1895b).
* *Symphyogyna ulvoides* (Reinw., Blume et Nees) Nees, Syn. Hepat. 4: 487, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia ulvoides* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 196, 1824 [1825] (Reinwardt et al. 1824a). [423]
*** *Symphyogyna undulata* Colenso, Trans. & Proc. New Zealand Inst. 16: 356, 1884 (Colenso 1884).
** *Symphyogyna volkensii* Steph., Mém. Herb. Boissier 11: 35 (339), 1900 (Stephani 1900c).

** ***Symphyogynopsis* Grolle**, Acta Bot. Fenn. 133: 72, 1986 (Grolle and Piippo 1986).
*** *Symphyogynopsis gottscheana* (Mont. et Nees) Grolle, J. Hattori Bot. Lab. 63: 441, 1987 (Grolle 1987). Bas.: *Symphyogyna gottscheana* Mont. et Nees, Syn. Hepat. 4: 484, 1846 (Gottsche et al. 1846).

** ***Xenothallus* R.M.Schust.**, J. Hattori Bot. Lab. 26: 293, 1963 (Schuster 1963b).
*** *Xenothallus vulcanicola* R.M.Schust., J. Hattori Bot. Lab. 26: 293, 1963 (Schuster 1963b).

423 *Symphyogyna ulvoides* is probably a filmy fern (Schiffner 1900a), but he did not see any type material.

** Sandeothallaceae R.M.Schust.

** ***Sandeothallus*** **R.M.Schust.**, Nova Hedwigia 36: 10, 1982 (Schuster 1982).
** *Sandeothallus japonicus* (Inoue) Crand.-Stotl. et Stotler, Beih. Nova Hedwigia 131: 58, 2007 (Crandall-Stotler and Stotler 2007). Bas.: *Moerckia japonica* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 11 (1): 8, 1985 (Inoue 1985).
** *Sandeothallus radiculosus* (Schiffn.) R.M.Schust., Nova Hedwigia 36: 11, 1982 (Schuster 1982). Bas.: *Moerckia radiculosa* Schiffn., Österr. Bot. Z. 51 (2): 48, 1901 (Schiffner 1901).

Phyllothalliineae R.M.Schust.

*** Phyllothalliaceae E.A.Hodgs. ex T.Katag.

*** ***Phyllothallia*** **E.A.Hodgs.**, Trans. Roy. Soc. New Zealand, Bot. 2 (19): 247, 1964 (Hodgson 1964).
*** *Phyllothallia fuegiana* R.M.Schust., Trans. Brit. Bryol. Soc. 5 (2): 284, 1967 (Schuster 1967d).
*** *Phyllothallia nivicola* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 2 (19): 247, 1964 (Hodgson 1964).

Pelliales He-Nygrén, Juslén, Ahonen, Glenny et Piippo

*** Noterocladaceae W.Frey et M.Stech

Frey and Stech (2005a) proposed Noterocladaceae as a monogeneric family based on molecular and morphological evidence, which was later corroborated by Crandall-Stotler et al. (2010).

*** ***Noteroclada*** **Taylor ex Hook.f. et Wilson**, London J. Bot. 3: 166, 1844 (Hooker and Wilson 1844).
*** *Noteroclada confluens* Taylor, London J. Bot. 3: 166, 1844 (Hooker and Wilson 1844).

Excluded from the genus
* *Noteroclada longiuscula* Colenso, Trans. & Proc. New Zealand Inst. 19: 299, 1887 (Colenso 1887). [424]

424 *Noteroclada longiuscula* is neither a *Noteroclada* nor a *Fossombronia* species. The type specimen could not be found (Crandall-Stotler et al. 2010).

*** Pelliaceae H.Klinggr.

Frey and Stech (2005b) recognized Pelliaceae as a monogeneric family, which was later supported by Crandall-Stotler et al. (2010).

** ***Pellia*** **Raddi**, Jungermanniogr. Etrusca: 38, 1818 (Raddi 1818a) nom. conserv.

*** **subg. *Apopellia* Grolle**, J. Bryol. 12 (3): 427, 1983 (Grolle 1983a).
** *Pellia alpicola* R.M.Schust. ex L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 76 (3): 39, 2013 (Söderström et al. 2013d). Based on: *Pellia endiviifolia* subsp. *alpicola* R.M.Schust., J. Hattori Bot. Lab. 70: 145, 1991 (Schuster 1991b), *nom. inval.*
*** *Pellia endiviifolia* (Dicks.) Dumort., Recueil Observ. Jungerm.: 27, 1835 (Dumortier 1835). Bas.: *Jungermannia endiviifolia* Dicks., Fasc. Pl. Crypt. Brit. 4: 19, 1801 (Dickson 1801).
** *Pellia megaspora* R.M.Schust., J. Bryol. 11 (3): 419, 1981 (Schuster 1981b).

*** **subg. *Pellia***
** *Pellia appalachiana* R.M.Schust., Phytotaxa 76 (3): 39, 2013 (Söderström et al. 2013d). Based on: *Pellia appalachiana* R.M.Schust., J. Hattori Bot. Lab. 70: 145, 1991 (Schuster 1991b), *nom. inval.*
*** *Pellia epiphylla* (L.) Corda, Gen. hepat.: 654, 1829 (Corda 1829). Bas.: *Jungermannia epiphylla* L., Sp. Pl. 1: 1135, 1753 (Linnaeus 1753).
** *Pellia epiphylla* subsp. *borealis* (Lorb.) Messe, Bull. Soc. Roy. Bot. Belgique 114 (1): 13, 1981 (Messe 1981). Bas.: *Pellia borealis* Lorb., Jahrb. Wiss. Bot. 80: 697, 1934 (Lorbeer 1934).
*** *Pellia neesiana* (Gottsche) Limpr., Hedwigia 15 (2): 18, 1876 (Limpricht 1876). Bas.: *Pellia epiphylla* f. *neesiana* Gottsche, Hedwigia 6 (5): 69, 1867 (Gottsche 1867).

Incertae sedis
* *Pellia cordaeana* Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 433, 1877 (Trevisan 1877).
* *Pellia crispa* P.Kumm., Führer Leberm.: 60, 1875 (Kummer 1875).
* *Pellia gottscheana* Kreh, Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 90 (4): 237, 1909 (Kreh 1909).
* *Pellia longifolia* P.Kumm., Führer Leberm.: 60, 1875 (Kummer 1875).
* *Pellia undulata* P.Kumm., Führer Leberm.: 60, 1875 (Kummer 1875).

MARCHANTIOPSIDA Cronquist, Takht. et W.Zimm.
Blasiidae He-Nygrén, Juslén, Ahonen, Glenny et Piippo
Blasiales Stotler et Crand.-Stotl.

*** Blasiaceae H.Klinggr.

by L. Söderström

*** ***Blasia* L.**, Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).
*** *Blasia pusilla* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).

*** ***Cavicularia* Steph.**, Bull. Herb. Boissier 5 (2): 87, 1897 (Stephani 1897b).
*** *Cavicularia densa* Steph., Bull. Herb. Boissier 5 (2): 87, 1897 (Stephani 1897b).

Marchantiidae Engl.
Lunulariales H.Klinggr.

*** Lunulariaceae H.Klinggr.

by D.G. Long

*** ***Lunularia* Adans.**, Fam. Pl. (Adanson) 2: 15, 1763 (Adanson 1763).
*** *Lunularia cruciata* (L.) Dumort. ex Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 9: 298, 1868 (Lindberg 1868b). Bas.: *Marchantia cruciata* L., Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).
* *Lunularia cruciata* subsp. *thaxteri* (A.Evans et Herzog) R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 91, 1992 (Schuster 1992d). Bas.: *Lunularia thaxteri* A.Evans et Herzog, Arch. Esc. Fárm. Fac. Ci. Méd. Córdoba 7: 5, 1938 (Herzog and Hosseus 1938). [425]

Marchantiales Limpr.

*** Aytoniaceae Cavers

by D.G. Long

The genera of Aytoniaceae follow the treatment of Bischler-Causse et al. (2005) with the exception of *Asterella* and *Mannia* which were re-defined by Schill et al. (2010).

425 *Lunularia cruciata* subsp. *thaxteri* was synonymized with subsp. *cruciata* by Boisselier-Dubayle et al. (1995), but their subsp. *thaxteri* specimen was identified with some doubt and originated far from the known range.

*** ***Asterella* P.Beauv.**, Dict. Sci. Nat. [F. Cuvier] 3: 257, 1805 (Palisot de Beauvois 1805a) nom. conserv. [426]

** **subg. *Asterella***

** **sect. *Asterella***

*** *Asterella tenella* (L.) P.Beauv., Dict. Sci. Nat. [F. Cuvier] 3: 258, 1805 (Palisot de Beauvois 1805a). Bas.: *Marchantia tenella* L., Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).

** **sect. *Brachyblepharis* (Nees) D.G.Long**, J. Bryol. 22 (2): 113, 2000 (Grolle and Long 2000). Bas.: *Fimbraria* subg. *Brachyblepharis* Nees, Syn. Hepat. 4: 569, 1846 (Gottsche et al. 1846).

*** *Asterella abyssinica* (Gottsche) Grolle, Explor. Hydrobiol. Lac Bangweolo Luapula: 170, 1972 (Vanden Berghen 1972b). Bas.: *Fimbraria abyssinica* Gottsche, Syn. Hepat. 4: 569, 1846 (Gottsche et al. 1846).

*** *Asterella africana* (Mont.) Underw. ex A.Evans, Contr. U.S. Natl. Herb. 20: 250, 1920 (Evans 1920). Bas.: *Fimbraria africana* Mont., Hist. Nat. Îles Canaries 3 (2): 61, 1840 (Montagne 1840b).

*** *Asterella blumeana* (Nees) Kachroo, J. Gauhati India Univ. 3: 130, 1952 (Kachroo 1952). Bas.: *Fimbraria blumeana* Nees, Syn. Hepat. 4: 564, 1846 (Gottsche et al. 1846).

*** *Asterella chilensis* (Nees et Mont.) A.Evans, Bull. Torrey Bot. Club 46 (12): 469, 1919 (Evans 1919b). Bas.: *Fimbraria chilensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 41, 1838 (Montagne 1838).

*** *Asterella cruciata* (Steph.) Horik., Hikobia 1 (2): 79, 1951 (Horikawa 1951c). Bas.: *Fimbraria cruciata* Steph., Sp. Hepat. (Stephani) 6: 12, 1917 (Stephani 1917a).

*** *Asterella dissoluta* (Steph.) Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 38 (2): 237, 1989 (Grolle 1989b). Bas.: *Fimbraria dissoluta* Steph., Pflanzenw. Ost-Afrikas C: 62, 1895 (Stephani 1895d).

*** *Asterella dominicensis* S.W.Arnell, Bryologist 61 (2): 140, 1958 (Arnell 1958c).

*** *Asterella khasyana* (Griff.) Grolle, Khumbu Himal 1 (4): 267, 1966 (Grolle 1966k). Bas.: *Octokepos khasyanus* Griff., Not. pl. asiat. 2: 343, 1849 (Griffith 1849).

*** *Asterella leptophylla* (Mont.) Grolle, Feddes Repert. 87 (3/4): 246, 1976 (Grolle 1976a). Bas.: *Fimbraria leptophylla* Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 16, 1842 (Montagne 1842b).

*** *Asterella limbata* D.G.Long et Grolle, J. Bryol. 18 (2): 287, 1994 (Long and Grolle 1994).

** *Asterella shimizuana* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 10 (3): 361, 1967 (Inoue 1967b). [427]

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426 *Asterella* includes *Fimbraria* and *Hypenantron*, but a few taxa have neither been transferred nor synonymized. They are listed in the "Names in genera not currently accepted" section below.

427 *Asterella shimizuana* is conspecific with *Asterella khasyana* in Grolle and Piippo (1984), but it was accepted by Long (2006).

*** *Asterella tenera* (Mitt.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria tenera* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 170, 1855 (Mitten 1855).

* *Asterella tenerrima* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Fimbraria tenerrima* Steph., Sp. Hepat. (Stephani) 6: 17, 1917 (Stephani 1917a). [428]

*** *Asterella venosa* (Lehm. et Lindenb.) A.Evans, Contr. U.S. Natl. Herb. 20: 286, 1920 (Evans 1920). Bas.: *Fimbraria venosa* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 29, 1832 (Lehmann 1832).

** **subg. *Phragmoblepharis* Grolle**, Feddes Repert. 87 (3/4): 246, 1976 (Grolle 1976a).

*** *Asterella australis* (Hook.f. et Taylor) Verd., Ann. Bryol. 5: 126, 1932 (Verdoorn 1932c). Bas.: *Fimbraria australis* Hook.f. et Taylor, London J. Bot. 3: 573, 1844 (Hooker and Taylor 1844d).

*** *Asterella bachmannii* (Steph.) S.W.Arnell, Hepat. South Africa: 62, 1963 (Arnell 1963b). Bas.: *Fimbraria bachmannii* Steph., Hedwigia 33 (1): 7, 1894 (Stephani 1894a).

*** *Asterella bolanderi* (Austin) Underw., Bot. Gaz. 20 (2): 61, 1895 (Underwood 1895). Bas.: *Fimbraria bolanderi* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 230, 1869 (Austin 1869).

* *Asterella caucasica* (Steph.) H.Buch, A.Evans et Verd., Ann. Bryol. 10: 8, 1937 [1938] (Buch et al. 1937). Bas.: *Fimbraria caucasica* Steph., Bull. Herb. Boissier 7 (3): 206 (132), 1899 (Stephani 1899b). [429]

*** *Asterella conocephala* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria conocephala* Steph., Bull. Herb. Boissier 7 (3): 205 (131), 1899 (Stephani 1899b).

** *Asterella coronata* (Steph.) H.A.Mill., Phytologia 47 (4): 319, 1981 (Miller 1981). Bas.: *Fimbraria coronata* Steph., Sp. Hepat. (Stephani) 6: 12, 1917 (Stephani 1917a).

** *Asterella dioica* (Steph.) H.A.Mill., Phytologia 47 (4): 319, 1981 (Miller 1981). Bas.: *Fimbraria dioica* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 104, 1914 (Stephani and Watts 1914).

* *Asterella dognyensis* H.A.Mill., Phytologia 47 (4): 319, 1981 (Miller 1981). *Nom. nov. pro Fimbraria umbonata* Steph., Sp. Hepat. (Stephani) 6: 17, 1917 (Stephani 1917a), *nom. illeg.* [430]

*** *Asterella drummondii* (Taylor) R.M.Schust. ex D.G.Long, J. Bryol. 21 (1): 76, 1999 (Long 1999b). Bas.: *Fimbraria drummondii* Taylor, London J. Bot. 5: 412, 1846 (Taylor 1846b).

*** *Asterella echinella* (Gottsche) Underw., Bot. Gaz. 20 (2): 62, 1895 (Underwood 1895). Bas.: *Fimbraria echinella* Gottsche, Mexik. Leverm.: 271, 1863 (Gottsche 1863).

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428 *Asterella tenerrima* is probably conspecific with *Asterella tenera*.

429 *Asterella caucasica* is probably conspecific with *Asterella whiteleggeana* (Grolle 1975c, Scott and Bradshaw 1985).

430 *Asterella dognyensis* is possibly conspecific with *Asterella heteroflora*.

*** *Asterella elegans* (Spreng.) Trevis., Rendiconti Reale Ist. Lombardo Sci. (ser. 2) 7: 785, 1874 (Trevisan 1874). Bas.: *Fimbraria elegans* Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (1): 235, 1827 (Sprengel 1827a).

*** *Asterella heteroflora* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Fimbraria heteroflora* Steph., Sp. Hepat. (Stephani) 6: 14, 1917 (Stephani 1917a).

*** *Asterella innovans* (Austin) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 529, 1963 (Miller 1963). Bas.: *Marchantia innovans* Austin, Bull. Torrey Bot. Club 5 (3): 14, 1874 (Austin 1874).

*** *Asterella lateralis* M.Howe, Bull. Torrey Bot. Club 25 (4): 189, 1898 (Howe 1898b).

*** *Asterella lindenbergiana* (Corda ex Nees) Lindb. ex Arnell, Lebermoosstud. nördl. Norwegen: 2, 1892 (Arnell 1892). Bas.: *Fimbraria lindenbergiana* Corda ex Nees, Naturgesch. Eur. Leberm. 4: 266, 1838 (Nees 1838a).

*** *Asterella linearis* (Steph.) M.Howe, Bull. Torrey Bot. Club 25 (4): 191, 1898 (Howe 1898b). Bas.: *Fimbraria linearis* Steph., Bot. Jahrb. Syst. 20 (3): 302, 1895 (Stephani 1895a).

*** *Asterella longebarbata* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Fimbraria longebarbata* Steph., Hedwigia 28 (3): 156, 1889 (Stephani 1889d).

*** *Asterella macropoda* (Spruce) A.Evans, Bull. Torrey Bot. Club 46 (12): 472, 1919 (Evans 1919b). Bas.: *Fimbraria macropoda* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 564, 1885 (Spruce 1885).

*** *Asterella marginata* (Nees) S.W.Arnell, Hepat. South Africa: 63, 1963 (Arnell 1963b). Bas.: *Fimbraria marginata* Nees, Horae Phys. Berol.: 44, 1820 (Nees 1820).

** *Asterella muelleri* (Gottsche) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria muelleri* Gottsche, Bull. Herb. Boissier 7 (3): 203 (129), 1899 (Stephani 1899b).

*** *Asterella multiflora* (Steph.) Kachroo, J. Hattori Bot. Lab. 19: 3, 1958 (Kachroo 1958). Bas.: *Fimbraria multiflora* Steph., Bull. Herb. Boissier 7 (3): 198 (124), 1899 (Stephani 1899b).

*** *Asterella mussuriensis* (Kashyap) Verd., Ann. Bryol. 8: 156, 1935 (Verdoorn 1935). Bas.: *Fimbraria mussuriensis* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 345, 1916 (Kashyap 1916).

*** *Asterella mussuriensis* subsp. *crassa* (Shimizu et S.Hatt.) D.G.Long, Lindbergia 26 (1): 44, 2001 (Long 2001). Bas.: *Asterella crassa* Shimizu et S.Hatt., J. Hattori Bot. Lab. 8: 48, 1952 (Shimizu and Hattori 1952).

*** *Asterella pappii* (Gola) Grolle, Feddes Repert. 87 (3/4): 246, 1976 (Grolle 1976a). Bas.: *Fimbraria pappii* Gola, Ann. Bot. (Rome) 13 (1): 65, 1914 (Gola 1914a).

*** *Asterella persica* (Steph.) M.Howe, Bull. Torrey Bot. Club 25 (4): 191, 1898 (Howe 1898b). Bas.: *Fimbraria persica* Steph., Hedwigia 33 (1): 7, 1894 (Stephani 1894a).

* *Asterella preussii* (Schiffn.) M.Howe, Bull. Torrey Bot. Club 25 (4): 191, 1898 (Howe 1898b). Bas.: *Fimbraria preussii* Schiffn., Bot. Jahrb. Syst. 20 (3): 303, 1895 (Stephani 1895a). [431]

** *Asterella setisquama* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria setisquama* Steph., Hedwigia 28 (3): 156, 1889 (Stephani 1889d).

*** *Asterella syngenesica* (Bory) Grolle, Lindbergia 2 (3/4): 230, 1974 (Grolle and Onraedt 1974). Bas.: *Marchantia syngenesica* Bory, Voy. îles Afrique 2: 95, 1804 (Bory 1804).

** *Asterella tasmanica* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria tasmanica* Steph., Bull. Herb. Boissier 7 (3): 206 (132), 1899 (Stephani 1899b).

*** *Asterella versicolor* A.Evans, Contr. U.S. Natl. Herb. 20: 307, 1920 (Evans 1920).

*** *Asterella vulcanica* (Schiffn.) Kachroo et Bapna, J. Indian Bot. Soc. 56 (1): 75, 1977 (Kachroo et al. 1977). Bas.: *Hypenantron vulcanicum* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 155, 1898 (Schiffner 1898a).

*** *Asterella whiteleggeana* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria whiteleggeana* Steph., Hedwigia 28 (3): 155, 1889 (Stephani 1889d).

*** *Asterella wilmsii* (Steph.) S.W.Arnell, Hepat. South Africa: 62, 1963 (Arnell 1963b). Bas.: *Fimbraria wilmsii* Steph., Hedwigia 31 (3): 122, 1892 (Stephani 1892d).

** **subg. *Saccatae* (Grolle) D.G.Long**, J. Bryol. 22 (2): 113, 2000 (Grolle and Long 2000). Bas.: *Asterella* subg. *Phragmoblepharis* sect. *Saccatae* Grolle, Feddes Repert. 87 (3/4): 346, 1976 (Grolle 1976a).

*** *Asterella alpina* (Steph.) D.G.Long, J. Hattori Bot. Lab. 93: 9, 2003 (Gradstein et al. 2003). Bas.: *Fimbraria alpina* Steph., Bull. Herb. Boissier 7 (3): 211 (137), 1899 (Stephani 1899b).

*** *Asterella grollei* D.G.Long, Bryologist 102 (2): 169, 1999 (Long 1999a).

*** *Asterella muscicola* (Steph.) S.W.Arnell, Mitt. Bot. Staatssamml. München 2 (16): 263, 1957 (Arnell 1957c). Bas.: *Fimbraria muscicola* Steph., Hedwigia 31 (3): 121, 1892 (Stephani 1892d).

*** *Asterella palmeri* (Austin) Underw., Bot. Gaz. 20 (2): 63, 1895 (Underwood 1895). Bas.: *Fimbraria palmeri* Austin, Bull. Torrey Bot. Club 6 (7): 47, 1875 (Austin 1875c).

*** *Asterella pringlei* Underw., Bot. Gaz. 20 (2): 64, 1895 (Underwood 1895).

*** *Asterella rugosa* A.Evans, Contr. U.S. Natl. Herb. 20: 289, 1920 (Evans 1920).

*** *Asterella saccata* (Wahlenb.) A.Evans, Contr. U.S. Natl. Herb. 20: 276, 1920 (Evans 1920). Bas.: *Marchantia saccata* Wahlenb., Mag. Neuesten Entdeck. Gesammten Naturk. Ges. Naturf. Freunde Berlin 5: 296, 1811 (Wahlenberg 1811).

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431 *Asterella preussii* was provisionally placed in synonymy with *Asterella bachmannii* (Wigginton and Grolle 1996).

** **subg. *Wallichianae* D.G.Long**, Lindbergia 26 (1): 43, 2001 (Long 2001).

** **sect. *Californicae* D.G.Long**, J. Hattori Bot. Lab. 97: 257, 2005 (Long 2005).
*** *Asterella californica* (Hampe ex Austin) Underw., Bot. Gaz. 20 (2): 60, 1895 (Underwood 1895). Bas.: *Fimbraria californica* Hampe ex Austin, Hepat. bor.-amer.: 33, 1873 (Austin 1873).

** **sect. *Wallichianae* D.G.Long**, Phytotaxa 173 (1): 87, 2014 (Long et al. 2014).
*** *Asterella wallichiana* (Lehm. et Lindenb.) Grolle, Khumbu Himal 1 (4): 262, 1966 (Grolle 1966k). Bas.: *Fimbraria wallichiana* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 4, 1832 (Lehmann 1832).

** ***Cryptomitrium* Austin ex Underw.**, Bull. Illinois State Lab. Nat. Hist. 2 (1): 36, 1884 (Underwood 1884).
*** *Cryptomitrium himalayense* Kashyap, New Phytol. 14 (1): 2, 1915 (Kashyap 1915).
*** *Cryptomitrium oreades* Perold, Bothalia 24 (2): 149, 1994 (Perold 1994).
*** *Cryptomitrium tenerum* (Hook.) Austin ex Underw., Bull. Illinois State Lab. Nat. Hist. 2 (1): 36, 1884 (Underwood 1884). Bas.: *Marchantia tenera* Hook., Syn. Pl. (Kunth) 1: 45, 1822 (Kunth 1822).

*** ***Mannia* Corda**, Gen. hepat.: 646, 1829 (Corda 1829) nom. conserv.

** **subg. *Mannia***
*** *Mannia androgyna* (L.) A.Evans, Chron. Bot. 4: 224, 1938 (Evans 1938a). Bas.: *Marchantia androgyna* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).
*** *Mannia californica* (Gottsche) L.C.Wheeler, Bryologist 37 (5): 88, 1934 [1935] (Wheeler 1934). Bas.: *Grimaldia californica* Underw., Bot. Gaz. 13 (5): 114, 1888 (Underwood 1888).
*** *Mannia controversa* (Meyl.) D.B.Schill, Edinburgh J. Bot. 65 (1): 36, 2008 (Schill et al. 2008). Bas.: *Grimaldia controversa* Meyl., Beitr. Kryptogamenfl. Schweiz 6 (4): 87, 1924 (Meylan 1924).
*** *Mannia controversa* subsp. *asiatica* D.B.Schill et D.G.Long, Edinburgh J. Bot. 65 (1): 45, 2008 (Schill et al. 2008).
*** *Mannia fragrans* (Balb.) Frye et L.Clark, Univ. Wash. Publ. Biol. 6 (1): 62, 1937 (Frye and Clark 1937). Bas.: *Marchantia fragrans* Balb., Mem. Acad. Sci. Turin, Sci. Phys. 15: 76, 1804 (Balbis 1804).
** *Mannia fragrans* subsp. *orientalis* R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 201, 1992 (Schuster 1992d). *Nom. nov. pro Mannia barbifrons* Shimizu et S.Hatt., J. Hattori Bot. Lab. 10: 49, 1953 (Shimizu and Hattori 1953b).
* *Mannia perssonii* Udar et V.Chandra, Canad. J. Bot. 43 (1): 150, 1965 (Udar and Chandra 1965). [432]

432 *Mannia perssonii* is possibly conspecific with *Mannia sibirica*.

*** *Mannia sibirica* (Müll.Frib.) Frye et L.Clark, Univ. Wash. Publ. Biol. 6 (1): 66, 1937 (Frye and Clark 1937). Bas.: *Grimaldia pilosa* var. *sibirica* Müll.Frib., Lebermoose 1 (5): 265, 1907 (Müller 1907a).

** **subg. *Neesiella* (Schiffn.) D.B.Schill et D.G.Long**, Bryologist 113 (1): 175, 2010 (Schill et al. 2010). Bas.: *Neesiella* Schiffn., Hepat. (Engl.-Prantl): 32, 1893 (Schiffner 1893b).

*** *Mannia gracilis* (F.Weber) D.B.Schill et D.G.Long, Bryologist 113 (1): 173, 2010 (Schill et al. 2010). Bas.: *Marchantia gracilis* F.Weber, Hist. Musc. Hepat. Prodr.: 105, 1815 (Weber 1815).

* *Mannia hegewaldii* Bischl., Fl. Neotrop. Monogr. 97: 184, 2005 (Bischler-Causse et al. 2005). [433]

*** *Mannia pilosa* (Hornem.) Frye et L.Clark, Univ. Wash. Publ. Biol. 6 (1): 64, 1937 (Frye and Clark 1937). Bas.: *Marchantia pilosa* Hornem., Fl. Danica 8 (24): 7, tab. 1426, 1810 (Hornemann 1810).

*** *Mannia triandra* (Scop.) Grolle, J. Bryol. 8 (4): 487, 1975 (Grolle 1975d). Bas.: *Marchantia triandra* Scop., Fl. Carniol. (ed. 2) 2: 354, 1772 (Scopoli 1772).

Incertae sedis

* *Mannia paradoxa* R.M.Schust., Phytologia 57 (6): 410, 1985 (Schuster 1985b). [434]

*** ***Plagiochasma* Lehm.**, Nov. Stirp. Pug. 4: 13, 1832 (Lehmann 1832) nom. conserv.

* *Plagiochasma megacarpon* (Griff.) Steph., Bull. Herb. Boissier 6 (10): 789 (86), 1898 (Stephani 1898c). Bas.: *Antrocephalus megacarpon* Griff., Not. pl. asiat. 2: 338, 1849 (Griffith 1849). [435]

** **subg. *Micropylum* Bischl.**, Rev. Bryol. Lichénol. 43 (1): 103, 1977 (Bischler 1977).

*** *Plagiochasma rupestre* (J.R.Forst. et G.Forst.) Steph., Bull. Herb. Boissier 6 (10): 783 (80), 1898 (Stephani 1898c). Bas.: *Aytonia rupestris* J.R.Forst. et G.Forst., Char. gen. pl., ed. 2: 148, 1776 (Forster and Forster 1776).

*** *Plagiochasma rupestre* var. *volkii* Bischl., Rev. Bryol. Lichénol. 44 (3): 289, 1978 (Bischler 1978).

** **subg. *Plagiochasma***

*** *Plagiochasma appendiculatum* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 14, 1832 (Lehmann 1832).

*** *Plagiochasma argentinicum* Bischl., Rev. Bryol. Lichénol. 45 (3): 301, 1979 (Bischler 1979a).

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433 *Mannia hegewaldii* is possibly conspecific with *Mannia triandra*.

434 *Mannia paradoxa* is possibly a *Reboulia* species.

435 *Plagiochasma megacarpon* may not be a *Plagiochasma* species. Bischler (1979b) could not find any specimen and did not know where to refer it.

*** *Plagiochasma beccarianum* Steph., Bull. Herb. Boissier 6 (10): 781 (78), 1898 (Stephani 1898c).
*** *Plagiochasma cordatum* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 13, 1832 (Lehmann 1832).
*** *Plagiochasma crenulatum* Gottsche, Mexik. Leverm.: 266, 1863 (Gottsche 1863).
*** *Plagiochasma cuneatum* A.Evans, Amer. J. Bot. 19 (7): 627, 1932 (Evans 1932a).
*** *Plagiochasma eximium* (Schiffn.) Steph., Bull. Herb. Boissier 6 (10): 781 (78), 1898 (Stephani 1898c). Bas.: *Aytonia eximia* Schiffn., Bot. Jahrb. Syst. 20 (3): 300, 1895 (Stephani 1895a).
*** *Plagiochasma intermedium* Lindenb. et Gottsche, Syn. Hepat. 4: 513, 1846 (Gottsche et al. 1846).
*** *Plagiochasma jamaicense* (Haynes) A.Evans, Bull. Torrey Bot. Club 42 (5): 292, 1915 (Evans 1915). Bas.: *Aytonia jamaicensis* Haynes, Bull. Torrey Bot. Club 34 (2): 58, 1907 (Haynes 1907).
*** *Plagiochasma japonicum* (Steph.) C.Massal., Hepat. Shen-si: 47, 1897 (Massalongo 1897). Bas.: *Aytonia japonica* Steph., Bull. Herb. Boissier 5 (2): 84, 1897 (Stephani 1897b).
*** *Plagiochasma landii* A.Evans, Bull. Torrey Bot. Club 42 (5): 298, 1915 (Evans 1915).
*** *Plagiochasma microcephalum* (Steph.) Steph., Bull. Herb. Boissier 6 (10): 781 (78), 1898 (Stephani 1898c). Bas.: *Aytonia microcephala* Steph., Bot. Jahrb. Syst. 20 (3): 301, 1895 (Stephani 1895a).
*** *Plagiochasma microcephalum* var. *tunesicum* Bischl., Rev. Bryol. Lichénol. 44 (3): 247, 1978 (Bischler 1978).
*** *Plagiochasma muenchianum* Steph., Sp. Hepat. (Stephani) 6: 9, 1917 (Stephani 1917a).
*** *Plagiochasma pterospermum* C.Massal., Hepat. Shen-si: 46, 1897 (Massalongo 1897).
*** *Plagiochasma wrightii* Sull., Musc. Hepat. U.S.: 688, 1856 (Sullivant 1856).

Incertae sedis

** *Plagiochasma udarii* A.Alam et S.C.Srivast., Indian J. Forest. 32 (4): 631, 2009 (Alam and Srivastava 2009).

*** ***Reboulia* Raddi**, Opusc. Sci. 2 (6): 357, 1818 (Raddi 1818b) nom. conserv.
*** *Reboulia hemisphaerica* (L.) Raddi, Opusc. Sci. 2 (6): 357, 1818 (Raddi 1818b). Bas.: *Marchantia hemisphaerica* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).
** *Reboulia hemisphaerica* subsp. *acrogyna* (R.M.Schust.) R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 168, 1992 (Schuster 1992d). Bas.: *Asterella bolanderi* subsp. *acrogyna* R.M.Schust., Phytologia 57 (6): 410, 1985 (Schuster 1985b).
** *Reboulia hemisphaerica* subsp. *australis* R.M.Schust., Phytologia 56 (7): 460, 1985 (Schuster 1985c).
** *Reboulia hemisphaerica* subsp. *dioica* R.M.Schust., Phytologia 56 (7): 462, 1985 (Schuster 1985c).
** *Reboulia hemisphaerica* var. *fissisquama* Herzog, Symb. Sin. 5: 5, 1930 (Nicholson et al. 1930).

** *Reboulia hemisphaerica* subsp. *orientalis* R.M.Schust., Phytologia 56 (7): 461, 1985 (Schuster 1985c).
** *Reboulia hemisphaerica* var. *turkestanica* C.E.O.Jensen ex Herzog, Symb. Sin. 5: 5, 1930 (Nicholson et al. 1930).

*** Cleveaceae Cavers

by D.G. Long

The genera of Cleveaceae were re-defined by Rubasinghe et al. (2011a) based on molecular evidence.

*** ***Athalamia* Falc.**, Ann. Mag. Nat. Hist. (ser. 2) 1 (5): 375, 1848 (Anonymous 1848).
* *Athalamia dioica* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 348, 1916 (Kashyap 1916).
*** *Athalamia pinguis* Falc., Ann. Mag. Nat. Hist. (ser. 2) 1 (5): 375, 1848 (Anonymous 1848).
* *Athalamia pulcherrima* (Steph.) S.Hatt., J. Hattori Bot. Lab. 12: 54, 1954 (Shimizu and Hattori 1954). Bas.: *Clevea pulcherrima* Steph., Bot. Jahrb. Syst. 20 (3): 303, 1895 (Stephani 1895a).

*** ***Clevea* Lindb.**, Not. Sällsk. Fauna Fl. Fenn. Förh. 9: 289, 1868 (Lindberg 1868b).
*** *Clevea hyalina* (Sommerf.) Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 9: 291, 1868 (Lindberg 1868b). Bas.: *Marchantia hyalina* Sommerf., Mag. Naturvidensk. 11 (2): 234, 1833 (Sommerfeldt 1833).
* *Clevea hyalina* var. *californica* M.Howe, Mem. Torrey Bot. Club 7: 38, 1899 (Howe 1899).
* *Clevea pedicellata* (Griff.) Lindb., Acta Soc. Fauna Fl. Fenn. 2 (3): 11, 1882 (Lindberg 1882). Bas.: *Plagiochasma pedicellatum* Griff., Not. pl. asiat. 2: 331, 1849 (Griffith 1849).
*** *Clevea pusilla* (Steph.) Rubas. et D.G.Long, J. Bryol. 33 (2): 167, 2011 (Rubasinghe et al. 2011b). Bas.: *Gollaniella pusilla* Steph., Hedwigia 44 (2): 74, 1905 (Stephani 1905h).
*** *Clevea spathysii* (Lindenb.) Müll.Frib., Hedwigia 79 (1/2): 75, 1940 (Müller 1940). Bas.: *Marchantia spathysii* Lindenb., Syn. hepat. eur: 104, 1829 (Lindenberg 1829).

*** ***Peltolepis* Lindb.**, Morgonbladet (Helsinki) 1876 (106, 9 May): 1, 1876 (Elfving 1876).
** *Peltolepis japonica* (Shimizu et S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 14: 103, 1955 (Shimizu and Hattori 1955). Bas.: *Peltolepis quadrata* var. *japonica* Shimizu et S.Hatt., J. Hattori Bot. Lab. 12: 69, 1954 (Shimizu and Hattori 1954).
*** *Peltolepis quadrata* (Saut.) Müll.Frib., Hedwigia 79 (1/2): 74, 1940 (Müller 1940). Bas.: *Sauteria quadrata* Saut., Flora 43 (22): 351, 1860 (Sauter 1860).

*** ***Sauteria* Nees**, Naturgesch. Eur. Leberm. 4: 139, 1838 (Nees 1838a).

** **sect. *Sauchia* (Kashyap) R.M.Schust.**, Phytologia 57 (6): 411, 1985 (Schuster 1985b). Bas.: *Sauchia* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 347, 1916 (Kashyap 1916).

* *Sauteria japonica* (Shimizu et S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 12: 62, 1954 (Shimizu and Hattori 1954). Bas.: *Sauchia japonica* Shimizu et S.Hatt., J. Hattori Bot. Lab. 9: 32, 1953 (Shimizu and Hattori 1953a). [436]

*** *Sauteria spongiosa* (Kashyap) S.Hatt., J. Hattori Bot. Lab. 12: 62, 1954 (Shimizu and Hattori 1954). Bas.: *Sauchia spongiosa* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 347, 1916 (Kashyap 1916).

** **sect. *Sauteria***

*** *Sauteria alpina* (Nees) Nees, Naturgesch. Eur. Leberm. 4: 143, 1838 (Nees 1838a). Bas.: *Lunularia alpina* Nees, Flora 13 (25): 399, 1830 (Nees and Bischoff 1830).

* *Sauteria inflata* C.Gao et K.C.Chang, Acta Bot. Yunnan. 3 (4): 389, 1981 (Gao et al. 1981). [437]

Incertae sedis

* *Sauteria chilensis* (Lindenb.) Grolle, J. Hattori Bot. Lab. 58: 200, 1985 (Grolle 1985b). Bas.: *Grimaldia chilensis* Lindenb., Voy. Amér. Mérid. 7 (2): 53, 1839 (Montagne 1839a).

* *Sauteria crassipes* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 229, 1869 (Austin 1869).

* *Sauteria nyikaensis* Perold, Bothalia 33 (2): 167, 2003 (Perold 2003).

*** Conocephalaceae Müll.Frib. ex Grolle

by D.G. Long

*** ***Conocephalum* Hill**, Gener. Nat. Hist. 2 Hist. pl. (ed. 2): 118, 1773 (Hill 1773) nom. conserv.

** **subg. *Conocephalum***

*** *Conocephalum conicum* (L.) Dumort., Commentat. Bot. (Dumortier): 115, 1822 (Dumortier 1822). Bas.: *Marchantia conica* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).

*** *Conocephalum salebrosum* Szweyk., Buczk. et Odrzyk., Pl. Syst. Evol. 253 (1/4): 146, 2005 (Szweykowski et al. 2005).

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436 *Sauteria japonica* is possibly conspecific with *Sauteria spongiosa*.

437 *Sauteria inflata* is possibly conspecific with *Sauteria alpina* (Schuster 1992d).

** **subg. *Sandea* (Lindb.) Inoue**, Ill. Jap. Hep. 2: 192, 1976 (Inoue 1976a). Bas.: *Sandea* Lindb., Acta Soc. Fauna Fl. Fenn. 2 (5): 3, 1884 (Lindberg 1884).

*** *Conocephalum japonicum* (Thunb.) Grolle, J. Hattori Bot. Lab. 55: 501, 1984 (Grolle 1984a). Bas.: *Lichen japonicus* Thunb., Fl. Jap. (Thunberg): 344, 1784 (Thunberg 1784).

** Corsiniaceae Engl.

by D.G. Long

** Corsinioideae Schiffn.

*** ***Corsinia* Raddi**, Opusc. Sci. 2 (6): 354, 1818 (Raddi 1818b).

*** *Corsinia coriandrina* (Spreng.) Lindb., Hepaticol. Utveckl.: 30, 1877 (Lindberg 1877c). Bas.: *Riccia coriandrina* Spreng. Anleit. Kenntn. Gew. 3: 320, 1804 (Sprengel 1804).

*** Cronisioideae R.M.Schust.

*** ***Cronisia* Berk.**, Introd. crypt. bot.: 434, 1857 (Berkeley 1857).

*** *Cronisia fimbriata* (Nees) Whittem. et Bischl., Cryptog. Bryol. 22 (3): 170, 2001 (Bischler and Whittemore 2001). Bas.: *Riccia fimbriata* Nees, Fl. Bras. (Martius) 1 (1): 301, 1833 (Nees 1833a).

*** *Cronisia weddellii* (Mont.) Grolle, J. Bryol. 9 (4): 532, 1977 [1978] (Grolle 1977a). Bas.: *Boschia weddellii* Mont., Ann. Sci. Nat. Bot. (sér. 4) 5: 352, 1856 (Montagne 1856c).

*** Cyathodiaceae Stotler et Crand.-Stotl.

by D.G. Long

*** ***Cyathodium* Kunze**, Nov. Stirp. Pug. 6: 17, 1834 (Lehmann 1834).

*** *Cyathodium aureonitens* (Griff.) Mitten, J. Linn. Soc., Bot. 22 (146): 327 (Mitten 1886b). Bas.: *Synhymenium aureonitens* Griff., Not. pl. asiat. 2: 344, 1849 (Griffith 1849).

*** *Cyathodium bischlerianum* N.Salazar, Bryologist 104 (1): 141, 2001 (Salazar 2001).

*** *Cyathodium cavernarum* Kunze, Nov. Stirp. Pug. 6: 18, 1834 (Lehmann 1834).

** *Cyathodium denticulatum* Udar et S.C.Srivast., Geophytology 1 (2): 166, 1971 (Udar and Srivastava 1971).

*** *Cyathodium foetidissimum* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 154, 1898 (Schiffner 1898a).
*** *Cyathodium indicum* Udar et D.K.Singh, J. Bryol. 10 (2): 139, 1978 [1979] (Udar and Singh 1978).
*** *Cyathodium mehranum* D.K.Singh, Misc. Bryol. Lichenol. 9 (8): 173, 1983 (Singh 1983b).
*** *Cyathodium smaragdinum* Schiffn., Ann. Jard. Bot. Buitenzorg, suppl. 3: 480, 1910 (Schiffner 1910c).
*** *Cyathodium spruceanum* Prosk., Bryologist 54 (4): 243, 1951 [1952] (Proskauer 1951b).
* *Cyathodium spurium* (Dicks.) Lindb. ex Braithw., J. Bot. 16: 55, 1878 (Braithwaite 1878). Bas.: *Riccia spuria* Dicks., Fasc. Pl. Crypt. Brit. 4: 20, 1801 (Dickson 1801). [438]
*** *Cyathodium steerei* Hässel, Rev. Bryol. Lichénol. 30 (3/4): 223, 1961 (Hässel 1961).
*** *Cyathodium tuberculatum* Udar et D.K.Singh, Bryologist 79 (2): 235, 1976 (Udar and Singh 1976).
*** *Cyathodium tuberosum* Kashyap, New Phytol. 13 (6/7): 210, 1914 (Kashyap 1914a).

*** Dumortieraceae D.G.Long

by D.G. Long

*** ***Dumortiera* Nees**, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 410, 1824 [1825] (Reinwardt et al. 1824b).
*** *Dumortiera hirsuta* (Sw.) Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 410, 1824 [1825] (Reinwardt et al. 1824b). Bas.: *Marchantia hirsuta* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788). [439]
* *Dumortiera hirsuta* subsp. *nepalensis* (Taylor) R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 386, 1992 (Schuster 1992d). Bas.: *Hygrophila nepalensis* Taylor, Trans. Linn. Soc. London 17 (3): 392, 1836 (Taylor 1836b).
* *Dumortiera hirsuta* subsp. *tatunoi* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 6: 38, 1951 (Horikawa 1951a).

*** Exormothecaceae Müll.Frib. ex Grolle

by D.G. Long

*** ***Aitchisoniella* Kashyap**, New Phytol. 13 (6/7): 219, 1914 (Kashyap 1914a).

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438 *Cyathodium spurium* may be conspecific with *Cyathodium cavernarum* (Braithwaite 1878). The type specimen is from Scotland, but it is probably mislabelled as no *Cyathodium* is known from boreal Europe.
439 *Dumortiera hirsuta* is a species complex (Forrest et al. 2011).

*** *Aitchisoniella himalayensis* Kashyap, New Phytol. 13 (6/7): 219, 1914 (Kashyap 1914a).

*** ***Exormotheca* Mitt.**, Nat. hist. Azores: 325, 1870 (Mitten 1870).

** **subg. *Corbierella* (Douin et Trab.) Schiffn.**, Hedwigia 81 (1/2): 71, 1942 (Schiffner 1942). Bas.: *Corbierella* Douin et Trab., Rev. Gén. Bot. 31: 326, 1919 (Douin and Trabut 1919).
*** *Exormotheca bischlerae* Furuki et Higuchi, Cryptog. Bryol. 27 (1): 98, 2006 (Furuki and Higuchi 2006).
*** *Exormotheca holstii* Steph., Bull. Herb. Boissier 7 (3): 219 (145), 1899 (Stephani 1899b).
*** *Exormotheca welwitschii* Steph., Bull. Herb. Boissier 7 (3): 220 (146), 1899 (Stephani 1899b).

** **subg. *Exormotheca***
*** *Exormotheca pustulosa* Mitt., Nat. hist. Azores: 326, 1870 (Mitten 1870).

Incertae sedis
*** *Exormotheca bulbigena* Bornefeld, O.H.Volk et R.Wolf, Bothalia 26 (2): 159, 1996 (Bornefeld et al. 1996).
*** *Exormotheca ceylonensis* Meijer, J. Hattori Bot. Lab. 16: 72, 1956 (Meijer 1956).
* *Exormotheca gollanii* Steph., Sp. Hepat. (Stephani) 6: 18, 1917 (Stephani 1917a).
*** *Exormotheca tuberifera* Kashyap, New Phytol. 13 (9): 309, 1914 (Kashyap 1914b).

*** ***Stephensoniella* Kashyap**, New Phytol. 13 (9): 312, 1914 (Kashyap 1914b).
*** *Stephensoniella brevipedunculata* Kashyap, New Phytol. 13 (9): 312, 1914 (Kashyap 1914b).

*** Marchantiaceae Lindl.

by D.G. Long

The treatment of Marchantiaceae is mainly following Bischler (1984, 1989b) and Bischler-Causse (1993).

** Bucegioideae R.M.Schust.

*** ***Bucegia* Radian**, Bull. Herb. Inst. Bot. Bucarest 3-4: 3, 1903 (Radian 1903).
*** *Bucegia romanica* Radian, Bull. Herb. Inst. Bot. Bucarest 3-4: 4, 1903 (Radian 1903).

** Marchantioideae Schiffn.

*** ***Marchantia* L.**, Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).

** **subg. *Chlamidium* (Corda) Bischl.**, Cryptog. Bryol. Lichénol. 3 (4): 362, 1982 (Bischler 1982). Bas.: *Chlamidium* Corda, Gen. hepat.: 647, 1829 (Corda 1829).
*** *Marchantia breviloba* A.Evans, Trans. Connecticut Acad. Arts 21 (3): 265, 1917 (Evans 1917a).
*** *Marchantia inflexa* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 43, 1838 (Montagne 1838).

** **sect. *Chlamidium* (Corda) Nees**, Naturgesch. Eur. Leberm. 4: 101, 1838 (Nees 1838a). Bas.: *Chlamidium* Corda, Gen. hepat.: 647, 1829 (Corda 1829).
*** *Marchantia chenopoda* L., Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).
*** *Marchantia crenata* Austin, Bull. Torrey Bot. Club 5 (3): 14, 1874 (Austin 1874).
*** *Marchantia foliacea* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 168, 1855 (Mitten 1855).
*** *Marchantia formosana* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 121, 1934 (Horikawa 1934).
*** *Marchantia globosa* Brid., Hist. Musc. Hepat. Prodr.: 102, 1815 (Weber 1815).
*** *Marchantia hexaptera* Reichardt, Verh. K.K. Zool.-Bot. Ges. Wien 16: 957, 1866 (Reichardt 1866).
*** *Marchantia linearis* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 8, 1832 (Lehmann 1832).
*** *Marchantia miqueliana* Lehm., Nov. Stirp. Pug. 10: 20, 1857 (Lehmann 1857).
*** *Marchantia novoguineensis* Bischl., Bryophyt. Biblioth. 38: 130, 1989 (Bischler 1989b).
*** *Marchantia pappeana* Lehm., Nov. Stirp. Pug. 10: 21, 1857 (Lehmann 1857).
** *Marchantia pappeana* subsp. *robusta* (Steph.) Bischl., Bryophyt. Biblioth. 45: 91, 1993 (Bischler-Causse 1993). Bas.: *Marchantia robusta* Steph., Candollea 14: 111, 1953 (Bonner 1953b).
*** *Marchantia pileata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 169, 1855 (Mitten 1855).
*** *Marchantia pinnata* Steph., Candollea 14: 109, 1953 (Bonner 1953b).
*** *Marchantia rubribarba* Steph., Bull. Herb. Boissier 7 (5): 400 (172), 1899 (Stephani 1899c).
*** *Marchantia vitiensis* Steph., Bull. Herb. Boissier 7 (7): 520 (182), 1899 (Stephani 1899d).

** **sect. *Paleaceae* Bischl.**, Bryophyt. Biblioth. 38: 90, 1989 (Bischler 1989b).
*** *Marchantia paleacea* Bertol., Opusc. Sci. 1: 242, 1817 (Bertoloni 1817).
*** *Marchantia paleacea* subsp. *diptera* (Nees et Mont.) Inoue, J. Jap. Bot. 64 (7): 194, 1989 (Inoue 1989c). Bas.: *Marchantia diptera* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 243, 1843 (Montagne 1843).

** **sect. *Papillatae* Bischl.**, Cryptog. Bryol. Lichénol. 10 (1): 69, 1989 (Bischler 1989a).
*** *Marchantia debilis* K.I.Goebel, Organogr. Pfl., ed. 2, 2 (1): 901, 1915 (Goebel 1915).
*** *Marchantia emarginata* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 192, 1824 [1825] (Reinwardt et al. 1824a).
*** *Marchantia emarginata* subsp. *lecordiana* (Steph.) Bischl., Cryptog. Bryol. Lichénol. 10 (1): 78, 1989 (Bischler 1989a). Bas.: *Marchantia lecordiana* Steph., Bull. Herb. Boissier 7 (7): 525 (187), 1899 (Stephani 1899d).
*** *Marchantia emarginata* subsp. *tosana* (Steph.) Bischl., Cryptog. Bryol. Lichénol. 10 (1): 77, 1989 (Bischler 1989a). Bas.: *Marchantia tosana* Steph., Bull. Herb. Boissier 5 (2): 99, 1897 (Stephani 1897b).
*** *Marchantia papillata* Raddi, Critt. Brasil.: 20, 1822 (Raddi 1822).
*** *Marchantia papillata* subsp. *grossibarba* (Steph.) Bischl., Cryptog. Bryol. Lichénol. 10 (1): 78, 1989 (Bischler 1989a). Bas.: *Marchantia grossibarba* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 221, 1894 (Stephani 1894b).

** **subg. *Marchantia***
*** *Marchantia plicata* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 43, 1838 (Montagne 1838).

** **sect. *Berteroanae* R.M.Schust.**, Hepat. Anthocerotae N. Amer. 6: 310, 1992 (Schuster 1992d).
*** *Marchantia berteroana* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 21, 1834 (Lehmann 1834).

** **sect. *Marchantia***
*** *Marchantia polymorpha* L., Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).
*** *Marchantia polymorpha* subsp. *montivagans* Bischl. et Boissel.-Dub., J. Bryol. 16 (3): 364, 1991 (Bischler-Causse and Boisselier-Dubayle 1991).
*** *Marchantia polymorpha* subsp. *ruderalis* Bischl. et Boissel.-Dub., J. Bryol. 16 (3): 364, 1991 (Bischler-Causse and Boisselier-Dubayle 1991).

** **subg. *Protomarchantia* R.M.Schust.**, Phytologia 57 (6): 410, 1985 (Schuster 1985b).

** **sect. *Protomarchantia* (R.M.Schust.) L.Söderstr.**, Phytotaxa 202 (1): 69, 2015 (Söderström et al. 2015c). Bas.: *Marchantia* subg. *Protomarchantia* R.M.Schust., Phytologia 57 (6): 410, 1985 (Schuster 1985b).
*** *Marchantia acaulis* Steph., Bull. Herb. Boissier 7 (7): 533 (195), 1899 (Stephani 1899d).
*** *Marchantia antiqua* Steph., Candollea 14: 103, 1953 (Bonner 1953b).
*** *Marchantia carrii* Bischl., Bryophyt. Biblioth. 38: 256, 1989 (Bischler 1989b).
*** *Marchantia geminata* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 194, 1824 [1825] (Reinwardt et al. 1824a).

*** *Marchantia hartlessiana* Steph., Candollea 14: 107, 1953 (Bonner 1953b).
*** *Marchantia macropora* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 169, 1855 (Mitten 1855).
*** *Marchantia philippinensis* Bischl., Bryophyt. Biblioth. 38: 245, 1989 (Bischler 1989b).
*** *Marchantia solomonensis* Bischl., Bryophyt. Biblioth. 38: 281, 1989 (Bischler 1989b).
*** *Marchantia streimannii* Bischl., Bryophyt. Biblioth. 38: 250, 1989 (Bischler 1989b).
*** *Marchantia subintegra* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 125, 1860 [1861] (Mitten 1860c).
*** *Marchantia treubii* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 160, 1898 (Schiffner 1898a).
*** *Marchantia wallisii* J.B.Jack et Steph., Bull. Herb. Boissier 7 (7): 520 (182), 1899 (Stephani 1899d).

** **sect. *Subgeminatae* Bischl.**, Bryophyt. Biblioth. 38: 219, 1989 (Bischler 1989b).
*** *Marchantia subgeminata* Steph., Bull. Herb. Boissier 7 (7): 530 (192), 1899 (Stephani 1899d).

Incertae sedis

* *Marchantia assamica* Griff., Not. pl. asiat. 2: 327, 1849 (Griffith 1849). [440]
* *Marchantia balboi* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 2, 1916 (Gola 1916). [441]
* *Marchantia balboi* var. *acutisquamata* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 472, 1947 (Gerola 1947). [442]
* *Marchantia cagnii* Gola, Ann. Bot. (Rome) 6 (2): 271, 1907 (Gola 1907). [443]
* *Marchantia cengiana* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 473, 1947 (Gerola 1947). [444]
* *Marchantia friedrichsthaliana* Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 438, 1877 (Trevisan 1877).
* *Marchantia keniae* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 3, 1916 (Gola 1916). [445]
* *Marchantia papyracea* Gola, Ann. Bot. (Rome) 6 (2): 271, 1907 (Gola 1907). [446]

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440 *Marchantia assamica* is a doubtful taxon. Bischler (1989b) could not find the type specimen.
441 *Marchantia balboi* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen.
442 *Marchantia balboi* var. *acutisquamata* is a doubtful taxon, Bischler-Causse (1993) could not find the type specimen and did not know what it is.
443 *Marchantia cagnii* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia paleace*a.
444 *Marchantia cengiana* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana.*
445 *Marchantia keniae* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana.*
446 *Marchantia papyracea* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana.*

* *Marchantia quadriloba* Steph., Candollea 14: 110, 1953 (Bonner 1953b).
* *Marchantia sellae* Gola, Ann. Bot. (Rome) 6 (2): 271, 1907 (Gola 1907). [447]
** *Marchantia stoloniscyphulus* (C.Gao et K.C.Chang) Piippo, J. Hattori Bot. Lab. 68: 134, 1990 (Piippo 1990). Bas.: *Marchantiopsis stoloniscyphulus* C.Gao et K.C.Chang, Bull. Bot. Res., Harbin 2 (4): 114, 1982 (Gao and Chang 1982).
* *Marchantia trilocularis* Roth, Tent. Fl. Germ. 1: 487, 1788 (Roth 1788). [448]
* *Marchantia tusui* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 3, 1916 (Gola 1916). [449]

** ***Preissia* Corda**, Gen. hepat.: 647, 1829 (Corda 1829).
*** *Preissia quadrata* (Scop.) Nees, Naturgesch. Eur. Leberm. 4: 135, 1838 (Nees 1838a). Bas.: *Marchantia quadrata* Scop., Fl. Carniol. (ed. 2) 2: 355, 1772 (Scopoli 1772).
** *Preissia quadrata* subsp. *hyperborea* R.M.Schust., Phytologia 57 (6): 410, 1985 (Schuster 1985b).

*** Monocleaceae A.B.Frank

by D.G. Long

*** ***Monoclea* Hook.**, Musci Exot. 2: tab. clxxiv, 1820 (Hooker 1820).
*** *Monoclea forsteri* Hook., Musci Exot. 2: tab. clxxiv, 1820 (Hooker 1820).
*** *Monoclea gottschei* Lindb., Rev. Bryol. 13 (6): 102, 1886 (Lindberg 1886).
*** *Monoclea gottschei* subsp. *elongata* Gradst. et Mues, Pl. Syst. Evol. 180 (1/2): 133, 1992 (Gradstein et al. 1992).

*** Monosoleniaceae Inoue

by D.G.Long

*** ***Monosolenium* Griff.**, Not. pl. asiat. 2: 341, 1849 (Griffith 1849).
*** *Monosolenium tenerum* Griff., Not. pl. asiat. 2: 341, 1849 (Griffith 1849).

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447 *Marchantia sellae* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana* or *Marchantia paleacea.*

448 *Marchantia trilocularis* is a doubtful taxon which Bischler-Causse (1993) could not place. The name may have priority once its identity is determined.

449 *Marchantia tusui* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana.*

*** Oxymitraceae Müll.Frib. ex Grolle

by D.G. Long

*** ***Oxymitra* Bisch. ex Lindenb.**, Syn. hepat. eur: 124, 1829 (Lindenberg 1829).
*** *Oxymitra cristata* Garside, Bothalia 23 (2): 211, 1993 (Perold 1993). Based on: *Oxymitra cristata* Garside, J. S. African Bot. 24: 83, 1958 (Garside 1958), *nom. inval.*
*** *Oxymitra incrassata* (Brot.) Sérgio et Sim-Sim, J. Bryol. 15 (4): 662, 1989 (Sérgio and Sim-Sim 1989). Bas.: *Riccia incrassata* Brot., Fl. lusit. 2: 428, 1804 [1805] (Brotero 1804).

*** Ricciaceae Rchb.

by R. Stotler, B.J. Crandall-Stotler and D.C. Cargill

** ***Riccia* L.**, Sp. Pl. 1: 1138, 1753 (Linnaeus 1753) nom. conserv.

** **subg. *Chartaceae* Perold**, Bothalia 16 (1): 29, 1986 (Volk and Perold 1986c).
*** *Riccia schelpei* O.H.Volk et Perold, Bothalia 16 (1): 29, 1986 (Volk and Perold 1986c).

** **subg. *Leptoriccia* R.M.Schust.**, Phytologia 56 (2): 72, 1984 (Schuster 1984).
*** *Riccia membranacea* Gottsche et Lindenb., Syn. Hepat. 4: 608, 1846 (Gottsche et al. 1846).

** **subg. *Riccia***
*** *Riccia albida* Sull. ex Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 231, 1869 (Austin 1869).
*** *Riccia albopunctata* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 237, 1991 (Jovet-Ast 1991).
*** *Riccia australis* Steph., Bull. Herb. Boissier 6 (4): 337 (29), 1898 (Stephani 1898a).
*** *Riccia boliviensis* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 242, 1991 (Jovet-Ast 1991).
*** *Riccia brasiliensis* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 6, 1964 (Schiffner and Arnell 1964).
*** *Riccia breutelii* Hampe, Bull. Herb. Boissier 6 (4): 325 (17), 1898 (Stephani 1898a).
*** *Riccia brittonii* M.Howe, Ann. Missouri Bot. Gard. 2 (1/2): 50, 1915 (Britton 1915).
* *Riccia chudoana* Steph., Sp. Hepat. (Stephani) 6: 1, 1917 (Stephani 1917a).
*** *Riccia coracina* Jovet-Ast, Cryptog. Bryol. 24 (3): 212, 2003 (Jovet-Ast 2003).
*** *Riccia corrugata* Jovet-Ast, Cryptog. Bryol. 21 (4): 308, 2000 (Jovet-Ast 2000).
*** *Riccia crassivenia* Jovet-Ast, Cryptog. Bryol. 21 (4): 312, 2000 (Jovet-Ast 2000).
*** *Riccia cubensis* S.W.Arnell, Bryologist 61 (2): 142, 1958 (Arnell 1958c).

*** *Riccia discolor* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 1, 1832 (Lehmann 1832).
*** *Riccia ekmanii* S.W.Arnell, Bryologist 61 (2): 143, 1958 (Arnell 1958c).
*** *Riccia elliottii* Steph., Bull. Herb. Boissier 6 (4): 324 (16), 1898 (Stephani 1898a).
*** *Riccia enyae* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 230, 1991 (Jovet-Ast 1991).
*** *Riccia erythrocarpa* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 257, 1991 (Jovet-Ast 1991).
*** *Riccia fruchartii* Steph., Bull. Herb. Boissier 6 (4): 330 (22), 1898 (Stephani 1898a).
*** *Riccia gangetica* Ahmad ex L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 65: 57, 2012 (Söderström et al. 2012f). Based on: *Riccia gangetica* Ahmad, Curr. Sci. 11 (11): 433, 1942 (Ahmad 1942), *nom. inval.*
*** *Riccia grandis* Nees, Fl. Bras. (Martius) 1 (1): 300, 1833 (Nees 1833a).
*** *Riccia helenae* Jovet-Ast, J. Hattori Bot. Lab. 74: 96, 1993 (Jovet-Ast 1993a).
** *Riccia hirta* (Austin) Underw., Bot. Gaz. 19 (7): 274, 1894 (Underwood 1894). Bas.: *Riccia arvensis* var. *hirta* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 232, 1869 (Austin 1869).
*** *Riccia horrida* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 226, 1991 (Jovet-Ast 1991).
*** *Riccia hortorum* Bory, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18 (1): 435, 1836 [1837] (Lindenberg 1836).
*** *Riccia howellii* M.Howe, Proc. Calif. Acad. Sci. (ser. 4) 21 (17): 202, 1934 (Howe 1934).
* *Riccia ianthina* Jovet-Ast, Rev. Bryol. Lichénol. 44 (4): 418, 1978 (Jovet-Ast 1978). [450]
*** *Riccia inflexa* Taylor, London J. Bot. 5: 417, 1846 (Taylor 1846b).
*** *Riccia iodocheila* M.Howe, Proc. Calif. Acad. Sci. (ser. 4) 21 (17): 200, 1934 (Howe 1934).
*** *Riccia lanceolata* Steph., Hedwigia 27 (3/4): 110, 1888 (Stephani 1888d).
*** *Riccia lindmanii* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 23 (III, 2): 29, 1897 (Stephani 1897a).
** *Riccia macallisteri* M.Howe, Bryologist 20 (3): 35, 1917 (Howe 1917).
*** *Riccia macrospora* Steph., Bull. Herb. Boissier 6 (4): 328 (20), 1898 (Stephani 1898a).
** *Riccia mamillata* Trab. ex Steph., Rev. Bryol. 16 (5): 65, 1889 (Stephani 1889b).
*** *Riccia mauryana* Steph., Bull. Herb. Boissier 6 (4): 327 (19), 1898 (Stephani 1898a).
*** *Riccia olgensis* Na-Thalang, Brunonia 3 (1): 100, 1980 (Na-Thalang 1980).
*** *Riccia planobiconvexa* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 23 (III, 2): 29, 1897 (Stephani 1897a).
*** *Riccia ridleyi* A.Gepp, J. Linn. Soc., Bot. 27 (181): 74, 1890 (Gepp 1890).
*** *Riccia sanguineisporis* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 253, 1991 (Jovet-Ast 1991).
*** *Riccia squamata* Nees, Fl. Bras. (Martius) 1 (1): 302, 1833 (Nees 1833a).

450 *Riccia ianthina* seems identical to glabrous phases of *Riccia atromarginata* (Schuster 1992d). It is related to *Riccia iodocheila* and *Riccia violacea* (Bischler-Causse et al. 2005), but it is only known from the type specimen.

*** *Riccia subdepilata* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 228, 1991 (Jovet-Ast 1991).
*** *Riccia subplana* Steph., Symb. Antill. (Urban) 3 (2): 275, 1902 (Stephani 1902e).
*** *Riccia taeniiformis* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 270, 1991 (Jovet-Ast 1991).
*** *Riccia viannae* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 261, 1991 (Jovet-Ast 1991).
*** *Riccia vitalii* Jovet-Ast, Mem. New York Bot. Gard. 45: 285, 1987 (Jovet-Ast 1987).
*** *Riccia weinionis* Steph., Bull. Herb. Boissier 6 (4): 326 (18), 1898 (Stephani 1898a).

** **sect. *Pilifer* O.H.Volk**, Mitt. Bot. Staatssamml. München 19: 455, 1983 (Volk 1983).
*** *Riccia alatospora* O.H.Volk et Perold, Bothalia 15 (3/4): 534, 1985 (Volk and Perold 1985).
*** *Riccia albomarginata* Bisch. ex C.Krauss, Flora 29 (9): 135, 1846 (Krauss 1846).
*** *Riccia albovestita* O.H.Volk, Mitt. Bot. Staatssamml. München 17: 245, 1981 (Volk 1981).
*** *Riccia ampullacea* Perold, Bothalia 20 (2): 168, 1990 (Perold 1990e).
*** *Riccia concava* Bisch. ex C.Krauss, Flora 29 (9): 135, 1846 (Krauss 1846).
*** *Riccia elongata* Perold, Bothalia 20 (2): 167, 1990 (Perold 1990e).
*** *Riccia furfuracea* Perold, Bothalia 20 (2): 176, 1990 (Perold 1990b).
*** *Riccia hantamensis* Perold, Bothalia 19 (2): 157, 1989 (Perold 1989b).
*** *Riccia hirsuta* O.H.Volk et Perold, Bothalia 16 (2): 187, 1986 (Volk and Perold 1986a).
*** *Riccia namaquensis* Perold, Bothalia 20 (2): 180, 1990 (Perold 1990b).
*** *Riccia parvoareolata* O.H.Volk et Perold, Bothalia 15 (1/2): 117, 1984 (Volk and Perold 1984).
*** *Riccia pulveracea* Perold, Bothalia 20 (2): 185, 1990 (Perold 1990c).
*** *Riccia radicosa* Pearson, Natuurw. Tijdschr. 4 (5/6): 142, 1922 (Pearson 1922a).
*** *Riccia simii* Perold, Bothalia 20 (1): 36, 1990 (Perold 1990a).
*** *Riccia trachyglossa* Perold, Bothalia 20 (2): 172, 1990 (Perold 1990e).
*** *Riccia villosa* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 88: 724, 1913 (Stephani 1913b).
*** *Riccia vitrea* Perold, Bothalia 20 (2): 178, 1990 (Perold 1990b).

** **sect. *Riccia***
*** *Riccia albolimbata* S.W.Arnell, Mitt. Bot. Staatssamml. München 2 (16): 264, 1957 (Arnell 1957c).
*** *Riccia alboporosa* Perold, Bothalia 19 (1): 12, 1989 (Perold 1989c).
*** *Riccia albornata* O.H.Volk et Perold, Bothalia 18 (2): 160, 1988 (Volk et al. 1988).
*** *Riccia angolensis* Steph., Bull. Herb. Boissier 6 (4): 323 (15), 1898 (Stephani 1898a).
*** *Riccia argenteolimbata* O.H.Volk et Perold, Bothalia 18 (2): 155, 1988 (Volk et al. 1988).
** *Riccia atlantica* Sérgio et Perold, J. Bryol. 17 (1): 127, 1992 (Sérgio and Perold 1992).
*** *Riccia atromarginata* Levier, Nuovo Giorn. Bot. Ital. 21 (2): 291, 1889 (Martelli 1889).

** *Riccia atromarginata* var. *jovet-astiae* Rauh et Buchloh, Rev. Bryol. Lichénol. 30 (1/2): 77, 1961 (Rauh and Buchloh 1961).
*** *Riccia atropurpurea* Sim, Trans. Roy. Soc. South Africa 15 (1): 11, 1926 (Sim 1926).
*** *Riccia beyrichiana* Hampe, Nov. Stirp. Pug. 7: 1, 1838 (Lehmann 1838).
*** *Riccia bicarinata* Lindb., Rev. Bryol. 4 (3): 41, 1877 (Lindberg 1877d).
*** *Riccia bicolorata* Perold, Bothalia 20 (2): 188, 1990 (Perold 1990c).
*** *Riccia bifurca* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 95, 1795 [1796] (Hoffmann 1795).
*** *Riccia billardierei* Mont. et Nees, Syn. Hepat. 4: 602, 1846 (Gottsche et al. 1846).
*** *Riccia breidleri* Jur. ex Steph., Hedwigia 24 (1): 6, 1885 (Stephani 1885e).
*** *Riccia californica* Austin, Bull. Torrey Bot. Club 6 (7): 46, 1875 (Austin 1875c).
*** *Riccia campbelliana* M.Howe, Mem. Torrey Bot. Club 7: 26, 1899 (Howe 1899).
*** *Riccia ciliata* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 95, 1795 [1796] (Hoffmann 1795).
*** *Riccia ciliifera* Link, Syn. hepat. eur: 119, 1829 (Lindenberg 1829).
* *Riccia congoana* Steph., Bull. Herb. Boissier 6 (4): 328 (20), 1898 (Stephani 1898a). [451]
*** *Riccia crinita* Taylor, London J. Bot. 5: 415, 1846 (Taylor 1846b).
*** *Riccia crozalsii* Levier, Rev. Bryol. 29 (4): 73, 1902 (Levier 1902).
* *Riccia crustata* Trab., Bull. Soc. Hist. Nat. Afrique N. 7: 87, 1916 (Trabut 1916). [452]
** *Riccia dictyospora* M.Howe, Bull. Torrey Bot. Club 28 (3): 163, 1901 (Howe 1901a).
*** *Riccia glauca* L., Sp. Pl. 1: 1139, 1753 (Linnaeus 1753).
** *Riccia glauca* var. *ciliaris* Warnst., Verh. Bot. Vereins Prov. Brandenburg 27 (1): 87, 1886 (Warnstorf 1886).
** *Riccia gothica* Damsh. et Hallingb., Lindbergia 12 (2/3): 100, 1986 [1987] (Damsholt and Hallingbäck 1986).
*** *Riccia gougetiana* Durieu et Mont., Ann. Sci. Nat. Bot. (sér. 3) 11: 35, 1849 (Montagne 1849).
** *Riccia gougetiana* var. *armatissima* Levier ex Müll.Frib., Lebermoose 1 (3): 161, 1907 (Müller 1907b).
*** *Riccia lamellosa* Raddi, Opusc. Sci. 2 (6): 351, 1818 (Raddi 1818b).
*** *Riccia ligula* Steph., Bull. Herb. Boissier 6 (4): 315 (7), 1898 (Stephani 1898a).
*** *Riccia limbata* Bisch. ex C.Krauss, Flora 29 (9): 135, 1846 (Krauss 1846).
*** *Riccia macrocarpa* Levier, Bull. Soc. Bot. Ital. 1894: 114, 1894 (Levier 1894).
*** *Riccia mammifera* O.H.Volk et Perold, Bothalia 16 (2): 176, 1986 (Volk and Perold 1986b).
*** *Riccia melitensis* C.Massal., Bull. Soc. Bot. Ital. 1913 (2/3): 52, 1913 (Massalongo 1913).
*** *Riccia michelii* Raddi, Opusc. Sci. 2 (6): 352, 1818 (Raddi 1818b).
*** *Riccia microciliata* O.H.Volk et Perold, Bothalia 16 (2): 173, 1986 (Volk and Perold 1986b).

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451 *Riccia congoana* is possibly conspecific with *Riccia billardierei* (Perold 1989a).

452 *Riccia crustata* may be conspecific with *Riccia albida* (Jovet-Ast 1986).

*** *Riccia montana* Perold, Bothalia 19 (1): 9, 1989 (Perold 1989c).
*** *Riccia natalensis* Sim, Trans. Roy. Soc. South Africa 15 (1): 9, 1926 (Sim 1926).
*** *Riccia nigrella* DC., Fl. Franç. (DC. & Lamarck), 5 (6): 193, 1815 (De Candolle and Lamarck 1815).
*** *Riccia okahandjana* S.W.Arnell, Mitt. Bot. Staatssamml. München 2 (16): 268, 1957 (Arnell 1957c).
** *Riccia ozarkiana* McGregor, Bryologist 63 (1): 30, 1960 (McGregor 1960).
*** *Riccia papillosa* Moris, Stirp. Sard. Elench.: 18, 1829 (Moris 1829).
*** *Riccia pottsiana* Sim, Trans. Roy. Soc. South Africa 15 (1): 10, 1926 (Sim 1926).
*** *Riccia rosea* O.H.Volk et Perold, Bothalia 16 (2): 181, 1986 (Volk and Perold 1986d).
* *Riccia runssorensis* Steph., Bull. Herb. Boissier 6 (4): 330 (22), 1898 (Stephani 1898a). [453]
*** *Riccia sommieri* Levier, Isola Giglio: 119, 1900 (Bottini et al. 1900).
*** *Riccia sorocarpa* Bisch., Bem. Leberm.: 145, 1835 (Bischoff 1835).
** *Riccia sorocarpa* var. *heegii* Schiffn., Hedwigia 53 (1/2): 36, 1912 (Schiffner 1912a).
*** *Riccia subbifurca* Warnst. ex Croz., Rev. Bryol. 30 (4): 62, 1903 (Crozals 1903b).
** *Riccia tenella* D.L.Jacobs, Bryologist 52 (4): 168, 1949 [1950] (Jacobs 1949).
*** *Riccia trabutiana* Steph., Rev. Bryol. 16 (5): 65, 1889 (Stephani 1889b).
*** *Riccia violacea* M.Howe, Ann. Missouri Bot. Gard. 2 (1/2): 51, 1915 (Britton 1915).
*** *Riccia violacea* var. *laevis* Jovet-Ast, Cryptog. Bryol. Lichénol. 10 (2): 100, 1989 (Jovet-Ast 1989).
*** *Riccia warnstorfii* Limpr. ex Warnst., Verh. Bot. Vereins Prov. Brandenburg 27 (1): 85, 1886 (Warnstorf 1886).

** **subg. *Ricciella* (A.Braun) Boulay**, Musc. France 2: 198, 1904 (Boulay 1904). Bas.: *Ricciella* A.Braun, Flora 4 (2): 756, 1821 (Braun 1821).
*** *Riccia cancellata* Taylor, London J. Bot. 5: 414, 1846 (Taylor 1846b).
*** *Riccia cincta* Jovet-Ast, Cryptog. Bryol. 21 (4): 303, 2000 (Jovet-Ast 2000).
*** *Riccia cruciata* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 349, 1916 (Kashyap 1916).
*** *Riccia eburnea* Jovet-Ast, Cryptog. Bryol. 21 (4): 300, 2000 (Jovet-Ast 2000).
*** *Riccia hasskarliana* Steph., Bull. Herb. Boissier 6 (5): 374 (49), 1898 (Stephani 1898b).
*** *Riccia junghuhniana* Nees et Lindenb., Syn. Hepat. 4: 609, 1846 (Gottsche et al. 1846).
** *Riccia junghuhniana* var. *simplex* Schiffn., Hep. Fl. Buitenzorg: 14, 1900 (Schiffner 1900a).
*** *Riccia mangalorica* Ahmad ex Jovet-Ast, Cryptog. Bryol. 24 (3): 223, 2003 (Jovet-Ast 2003). Based on: *Riccia mangalorica* Ahmad, Curr. Sci. 11 (11): 433, 1942 (Ahmad 1942), *nom. inval.*
*** *Riccia multifida* (Steph.) Steph., Bull. Herb. Boissier 6 (5): 365 (40), 1898 (Stephani 1898b). Bas.: *Ricciella multifida* Steph., Hedwigia 28 (4): 273, 1889 (Stephani 1889c).

453 *Riccia runssorensis* is possibly conspecific with *Riccia macrospora* (Seppelt 1998).

** *Riccia polycarpa* (Trab.) Jelenc, Bull. Trimestriel Geogr. Archeol. Oran 73 (228): 88, 1950 (Jelenc 1950). Bas.: *Ricciella polycarpa* Trab., Mém. Soc. Hist. Nat. Afrique N. 3: 36, 1933 (Maire 1933).
*** *Riccia porosa* Taylor, London J. Bot. 5: 416, 1846 (Taylor 1846b).
*** *Riccia pullulans* Jovet-Ast, Cryptog. Bryol. Lichénol. 18 (3): 183, 1997 (Jovet-Ast 1997).

** **sect. *Ricciella* (A.Braun) Bisch.**, Bem. Leberm.: 160, 1835 (Bischoff 1835). Bas.: *Ricciella* A.Braun, Flora 4 (2): 756, 1821 (Braun 1821).
* *Riccia bahiensis* Steph., Bull. Herb. Boissier 6 (5): 375 (50), 1898 (Stephani 1898b). [454]
*** *Riccia canaliculata* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 96, 1795 [1796] (Hoffmann 1795).
*** *Riccia chiapasensis* Jovet-Ast, Cryptog. Bryol. Lichénol. 14 (3): 235, 1993 (Jovet-Ast 1993b).
*** *Riccia crassifrons* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 570, 1885 (Spruce 1885).
*** *Riccia duplex* Lorb. ex Müll.Frib., Hedwigia 80 (1/2): 100, 1941 (Müller 1941).
** *Riccia duplex* var. *megaspora* Na-Thalang, Brunonia 3 (1): 128, 1980 (Na-Thalang 1980).
*** *Riccia dussiana* Steph., Symb. Antill. (Urban) 3 (2): 275, 1902 (Stephani 1902e).
*** *Riccia fluitans* L., Sp. Pl. 1: 1139, 1753 (Linnaeus 1753).
*** *Riccia frostii* Austin, Bull. Torrey Bot. Club 6 (3): 17, 1875 (Austin 1875b).
* *Riccia frostii* var. *crystallinoides* Schiffn., Ann. K. K. Naturhist. Hofmus. 27: 503, 1913 (Schiffner 1913).
*** *Riccia geissleriana* Jovet-Ast, Cryptog. Bryol. Lichénol. 14 (3): 236, 1993 (Jovet-Ast 1993b).
*** *Riccia hegewaldiana* Jovet-Ast, Cryptog. Bryol. Lichénol. 14 (3): 238, 1993 (Jovet-Ast 1993b).
*** *Riccia huebeneriana* Lindenb., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18 (1): 504d, 1836 [1837] (Lindenberg 1836).
* *Riccia huebeneriana* subsp. *sullivantii* (Austin) R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 457, 1992 (Schuster 1992d). Bas.: *Riccia sullivantii* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 233, 1869 (Austin 1869).
*** *Riccia jovet-astiae* E.Vianna, Bol. Inst. Bioci. Univ. Fed. Rio Grande do Sul 38: 165, 1985 (Vianna 1985).
*** *Riccia limicola* Jovet-Ast, Rev. Bryol. Lichénol. 44 (4): 422, 1978 (Jovet-Ast 1978).
*** *Riccia paraguayensis* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxcvi, 1889 [1890] (Spruce 1889).
*** *Riccia paranaensis* Hässel, Opera Lilloana 7: 228, 1962 [1963] (Hässel 1962). [455]
*** *Riccia perennis* Steph., Bull. Herb. Boissier 6 (5): 372 (47), 1898 (Stephani 1898b).

454 *Riccia bahiensis* is conspecific with *Riccia cavernosa* in Jovet-Ast (1965), but it was accepted by Bischler-Causse et al. (2005). It is only known from the type specimen.

455 *Riccia paranaensis* may be conspecific with *Riccia huebeneriana* (Schuster 1992d), but it was accepted by Hässel and Rubies (2009).

*** *Riccia purpurascens* Lehm., Linnaea 4: 371, 1829 (Lehmann 1829).
** *Riccia rhenana* Lorb. ex Müll.Frib., Hedwigia 80 (1/2): 94, 1941 (Müller 1941).
** *Riccia rhenana* var. *violacea* M.F.Boiko, Chornom. Bot. J. 7: 93, 2011 (Boiko 2011).
*** *Riccia stricta* (Lindenb.) Perold, Bothalia 20 (2): 197, 1990 (Perold 1990d). Bas.: *Riccia fluitans* var. *stricta* Lindenb., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18 (1): 444, 1836 [1837] (Lindenberg 1836).

** **sect. *Spongodes* Nees**, Naturgesch. Eur. Leberm. 4: 391, 1838 (Nees 1838a).
*** *Riccia bullosa* Link, Syn. hepat. eur: 119, 1829 (Lindenberg 1829).
*** *Riccia cavernosa* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 95, 1795 [1796] (Hoffmann 1795).
*** *Riccia crystallina* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).
*** *Riccia cupulifera* A.V.Duthie, Trans. Roy. Soc. South Africa 24 (2): 116, 1936 (Duthie and Garside 1936).
*** *Riccia garsidei* Sim, Trans. Roy. Soc. South Africa 15 (1): 13, 1926 (Sim 1926).
*** *Riccia moenkemeyeri* Steph., Bot. Jahrb. Syst. 8 (2): 95, 1886 (Stephani 1886d).
*** *Riccia rubricollis* Garside et A.V.Duthie ex Perold, Bothalia 21 (1): 51, 1991 (Perold 1991a).
*** *Riccia volkii* S.W.Arnell, Mitt. Bot. Staatssamml. München 2 (16): 271, 1957 (Arnell 1957c).
*** *Riccia vulcanicola* Eb.Fisch., Trop. Bryol. 8: 70, 1993 (Fischer 1993).

** **subg. *Thallocarpus* (Lindb.) Jovet-Ast**, Cryptog. Bryol. Lichénol. 14 (3): 220, 1993 (Jovet-Ast 1993b). Bas.: *Thallocarpus* Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 13: 377, 1874 (Lindberg 1874a).
*** *Riccia curtisii* (Austin) Austin, Bull. Torrey Bot. Club 6 (52): 305, 1879 (Austin 1879). Bas.: *Cryptocarpus curtisii* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 231, 1869 (Austin 1869).
** *Riccia leptothallus* R.M.Schust., J. Hattori Bot. Lab. 71: 271, 1992 (Schuster 1992c).
*** *Riccia perssonii* Sultan Khan, Svensk Bot. Tidskr. 49 (3): 433, 1955 (Kahn 1955).

** **subg. *Triseriata* Jovet-Ast**, Cryptog. Bryol. Lichénol. 17 (2): 132, 1996 (Jovet-Ast 1996).
*** *Riccia singularis* Jovet-Ast, Cryptog. Bryol. Lichénol. 17 (2): 127, 1996 (Jovet-Ast 1996).

Incertae sedis
** *Riccia abuensis* Bapna, Trans. Brit. Bryol. Soc. 4 (2): 249, 1962 (Bapna 1962).
** *Riccia acutisulca* Steph., Sp. Hepat. (Stephani) 6: 1, 1917 (Stephani 1917a).
* *Riccia amboinensis* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 44, 1890 (Schiffner 1890).
** *Riccia aravalliensis* Pandé et Udar, J. Indian Bot. Soc. 36 (3): 249, 1957 (Pandé and Udar 1957).

* *Riccia arnellii* Sultan Khan, Bryologist 60 (1): 29, 1957 (Khan 1957).
** *Riccia asprella* Carrington et Pearson, Proc. Linn. Soc. New South Wales (ser. 2) 2 (4): 1059, 1888 (Carrington and Pearson 1888a).
* *Riccia asservanda* De Not. ex Lamothe, Rech. Anat. Taxinom. Gamét. Marchantiales: 138, 1919 (Lamothe 1919).
** *Riccia attenuata* Pandé, Proc. Natl. Inst. Sci. India B 25 (2): 92, 1959 (Pandé and Udar 1959).
* *Riccia balansae* Steph., Bull. Herb. Boissier 6 (5): 370 (45), 1898 (Stephani 1898b).
* *Riccia bialbistrata* Hässel, Opera Lilloana 7: 243, 1962 [1963] (Hässel 1962). [456]
** *Riccia biokoensis* Perold, Nova Hedwigia 64 (1/2): 244, 1997 (Perold 1997b).
** *Riccia blackii* Na-Thalang, Brunonia 3 (1): 81, 1980 (Na-Thalang 1980).
*** *Riccia caroliniana* Na-Thalang, Brunonia 3 (1): 72, 1980 (Na-Thalang 1980).
** *Riccia cartilaginosa* Steph., Hedwigia 28 (4): 272, 1889 (Stephani 1889c).
* *Riccia chartacea* K.I.Goebel, Organogr. Pfl., ed. 2, 2 (1): 630, 1915 (Goebel 1915).
** *Riccia chinensis* Herzog, Symb. Sin. 5: 1, 1930 (Nicholson et al. 1930).
** *Riccia collata* Na-Thalang, Brunonia 3 (1): 122, 1980 (Na-Thalang 1980).
** *Riccia compacta* Garside, Trans. Roy. Soc. South Africa 27 (1): 17, 1939 (Duthie and Garside 1939).
** *Riccia convexa* Steph., Sp. Hepat. (Stephani) 6: 2, 1917 (Stephani 1917a).
* *Riccia coronata* Sim, Trans. Roy. Soc. South Africa 15 (1): 9, 1926 (Sim 1926). [457]
** *Riccia crassa* Steph., Bull. Herb. Boissier 6 (5): 376 (51), 1898 (Stephani 1898b).
** *Riccia crenatodentata* O.H.Volk, Nova Hedwigia 46 (1/2): 27, 1988 (Volk 1988).
** *Riccia delavayi* Steph., Bull. Herb. Boissier 6 (5): 367 (42), 1898 (Stephani 1898b).
** *Riccia deserticola* Steph., Bull. Herb. Boissier 6 (5): 373 (48), 1898 (Stephani 1898b).
*** *Riccia erubescens* Perold, J. Bryol. 16 (3): 371, 1991 (Perold 1991b).
** *Riccia esulcata* Steph., Sp. Hepat. (Stephani) 6: 2, 1917 (Stephani 1917a).
** *Riccia fertilissima* Steph., Sp. Hepat. (Stephani) 6: 2, 1917 (Stephani 1917a).
* *Riccia gemmifera* O.H.Volk, Nova Hedwigia 39: 131, 1984 (Volk 1984). [458]
** *Riccia grollei* Udar, Curr. Sci. 34 (4): 126, 1965 (Udar 1965). *Nom. nov. pro Riccia tuberculata* Pandé et Udar, Proc. Natl. Inst. Sci. India B 24 (2): 83, 1958 (Pandé and Udar 1958), *nom. illeg*.
** *Riccia handelii* Schiffn., Symb. sin. 2: 81, 1937 (Schiffner 1937).
** *Riccia hawaiiensis* Hürl., Phytologia 61 (5): 339, 1986 (Hürlimann 1986).
** *Riccia indica* Udar et A.Gupta, Proc. V Indian Geophytol. Conf., Special Publ.: 307, 1984 (Udar and Gupta 1984).
** *Riccia indira-gandhiensis* Dabhade et A.Hasan, J. Bombay Nat. Hist. Soc. 83 (2): 400, 1986 (Dabhade and Hasan 1986).

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456 *Riccia bialbistrata* is a doubtful taxon closely related to *Riccia lindmanii* (Bischler-Causse et al. 2005).

457 *Riccia coronata* is only known from the type specimen, which could not be traced. The description is very brief and it is suspected that it refers to smaller plants of *Riccia natalensis* (Perold 1999a).

458 *Riccia gemmifera* is possibly conspecific with *Riccia atropurpurea* (Perold 1999a).

* *Riccia intermedia* Roum., Mém. Soc. Arts Sci. Carcassonne 5: 198, 1888 (Roumeguère 1888). [459]

** *Riccia jodhpurensis* Bapna, Bot. Not. 114 (2): 181, 1961 (Bapna 1961).

** *Riccia kirinensis* C.Gao et K.C.Chang, Acta Phytotax. Sin. 16 (4): 117, 1978 (Gao and Chang 1978).

*** *Riccia laxisquamata* (Steph.) Steph., Bull. Herb. Boissier 6 (5): 371 (46), 1898 (Stephani 1898b). Bas.: *Ricciella laxisquamata* Steph., Bot. Jahrb. Syst. 20 (3): 299, 1895 (Stephani 1895a).

** *Riccia liaoningensis* C.Gao et K.C.Chang, Acta Phytotax. Sin. 16 (4): 113, 1978 (Gao and Chang 1978).

** *Riccia linearis* (Schiffn.) Steph., Bull. Herb. Boissier 6 (5): 371 (46), 1898 (Stephani 1898b). Bas.: *Ricciella linearis* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 43, 1890 (Schiffner 1890).

** *Riccia luticola* Na-Thalang, Brunonia 3 (1): 123, 1980 (Na-Thalang 1980).

** *Riccia mamrensis* Perold, Cryptog. Bryol. 26 (1): 68, 2005 (Perold 2005).

* *Riccia marginata* Lindb., Meddel. Soc. Fauna Fl. Fenn. 1: 106, 1876 [1877] (Lindberg 1876b). [460]

** *Riccia melanospora* Kashyap, Liverworts W. Himal. 1: 94, 1929 (Kashyap 1929).

** *Riccia miyakeana* Schiffn., Österr. Bot. Z. 49 (11): 386, 1899 (Schiffner 1899c).

** *Riccia muscicola* Steph., Hedwigia 24 (1): 4, 1885 (Stephani 1885e).

*** *Riccia nigerica* E.W.Jones, Trans. Brit. Bryol. Soc. 3 (2): 225, 1957 (Jones 1957a).

* *Riccia nigrescens* Mont., Voy. Amér. Mérid., Bot. 7 (1): 15, 1839 (Montagne 1839b). [461]

** *Riccia nipponica* S.Hatt., J. Hattori Bot. Lab. 9: 38, 1953 (Shimizu and Hattori 1953a).

** *Riccia novo-hannoverana* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 44, 1890 (Schiffner 1890).

** *Riccia numeensis* Steph., Bull. Herb. Boissier 6 (4): 343 (35), 1898 (Stephani 1898a).

* *Riccia obtusa* Meijer, J. Hattori Bot. Lab. 20: 113, 1958 (Meijer 1958). [462]

*** *Riccia oerstediana* Lindenb. et Hampe, Linnaea 24 (3): 304, 1851 [1852] (Hampe 1851b).

** *Riccia pandei* Udar, J. Indian Bot. Soc. 38 (1): 149, 1959 (Udar 1959).

*** *Riccia papillispora* Steph., Bull. Herb. Boissier 6 (4): 334 (26), 1898 (Stephani 1898a).

** *Riccia papulosa* (Steph.) Steph., Bull. Herb. Boissier 6 (5): 377 (52), 1898 (Stephani 1898b). Bas.: *Ricciella papulosa* Steph., Hedwigia 28 (4): 273, 1889 (Stephani 1889c).

** *Riccia papulosa* var. *variabilis* Na-Thalang, Brunonia 3 (1): 112, 1980 (Na-Thalang 1980).

** *Riccia pathankotensis* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 349, 1916 (Kashyap 1916).

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459 *Riccia intermedia* (type from France) has neither been recognized in any recent treatment nor synonymized. The name may have priority once its identity is determined.

460 *Riccia marginata* is possibly conspecific with *Riccia beyrichiana* (Potemkin and Ahti 2012).

461 *Riccia nigrescens* is an *Anthoceros* species (Hässel and Rubies 2009).

462 *Riccia obtusa* may be conspecific with *Riccia gangetica* (Söderström et al. 2010a).

* *Riccia perthiana* Steph. ex K.I.Goebel, Organogr. Pfl., ed. 2, 2 (1): 630, 1915 (Goebel 1915).
* *Riccia prominens* Meijer, J. Hattori Bot. Lab. 20: 111, 1958 (Meijer 1958). [463]
** *Riccia pseudofluitans* C.Gao et K.C.Chang, Acta Phytotax. Sin. 16 (4): 116, 1978 (Gao and Chang 1978).
** *Riccia pubescens* S.Hatt., Nat. Sci. Mus. 14 (6): 141, 1943 (Hattori 1943a).
*** *Riccia radiata* Perold, Bothalia 34 (1): 23, 2004 (Perold 2004).
** *Riccia rechingeri* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 81: 288, 1907 (Stephani 1907a).
* *Riccia reticulatula* Udar, Bull. Bot. Soc. Univ. Saugar 13: 49, 1961 (Udar 1961).
** *Riccia rorida* Na-Thalang, Brunonia 3 (1): 101, 1980 (Na-Thalang 1980).
* *Riccia saharensis* Steph. ex Jovet-Ast, Rev. Bryol. Lichénol. 26 (1/2): 62, 1957 (Gillett and Jovet-Ast 1957). [464]
** *Riccia satoi* S.Hatt., Bot. Mag. (Tokyo) 62 (733/734): 109, 1949 (Hattori 1949).
* *Riccia schroederi* Steph., 52 (5): 304, 1912 (Stephani 1912a).
*** *Riccia schweinfurthii* Steph., Bull. Herb. Boissier 6 (4): 339 (31), 1898 (Stephani 1898a).
** *Riccia sibayenii* Perold, Bothalia 31 (1): 151, 2001 (Perold 2001a).
*** *Riccia somaliensis* Perold, J. Bryol. 16 (3): 367, 1991 (Perold 1991b).
** *Riccia spongiosula* Na-Thalang, Brunonia 3 (1): 113, 1980 (Na-Thalang 1980).
* *Riccia subtilis* (Steph.) Steph., Bull. Herb. Boissier 6 (5): 364 (39), 1898 (Stephani 1898b). Bas.: *Ricciella subtilis* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 23 (III, 2): 31, 1897 (Stephani 1897a).
** *Riccia sumatrana* Meijer, J. Hattori Bot. Lab. 20: 114, 1958 (Meijer 1958).
*** *Riccia symoensii* Vanden Berghen, Explor. Hydrobiol. Lac Bangweolo Luapula: 191, 1972 (Vanden Berghen 1972b).
** *Riccia tasmanica* Steph. ex Rodway, Tasm. Bryoph.: 4, 1917 (Rodway 1917b).
*** *Riccia tomentosa* O.H.Volk et Perold, Bothalia 20 (1): 25, 1990 (Volk and Perold 1990).
** *Riccia treubiana* Steph., Bull. Herb. Boissier 6 (4): 323 (15), 1898 (Stephani 1898a).
* *Riccia treubiana* var. *subrubescens* Schiffn., Hep. Fl. Buitenzorg: 16, 1900 (Schiffner 1900a).
* *Riccia triangularis* Steph., Bull. Mus. Natl. Hist. Nat. 18 (2): 116, 1912 (Corbière 1912).
* *Riccia tuberculata* Poir., Encycl. (Lamarck) 6: 199, 1804 (Lamarck and Poiret 1804). [465]
** *Riccia udarii* Kanwal, J. Indian Bot. Soc. 58 (3): 282, 1979 (Kanwal 1979).
* *Riccia velenovskyi* Kavina, Arch. Přír. Výzk. Čech 16 (2): 75, 1915 (Kavina 1915). [466]

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463 *Riccia prominens* may be conspecific with *Riccia junghuhniana* (Söderström et al. 2010a).

464 *Riccia saharensis* is possibly conspecific with *Riccia argenteolimbata* (Perold 1995).

465 *Riccia tuberculata* (type from France) has neither been recognized in any recent European treatment nor synonymized. The name may have priority once its identity is determined.

466 *Riccia velenovskyi* (type from Czech Republic) has neither been recognized in any recent European treatment nor synonymized. The name may have priority once its identity is determined.

** *Riccia velimalaiana* A.E.D.Daniels et P.Daniel, Bull. Bot. Surv. India 44 (1/4): 139, 2002 [2003] (Daniels and Daniel 2002).
** *Riccia victoriensis* Steph., Bull. Herb. Boissier 6 (5): 370, 1898 (Stephani 1898b).
** *Riccia weymouthiana* Steph. ex Rodway, Tasm. Bryoph.: 5, 1917 (Rodway 1917b).
** *Riccia wichurae* Steph., Bull. Herb. Boissier 6 (4): 330 (22), 1898 (Stephani 1898a).

** ***Ricciocarpos* Corda**, Gen. hepat.: 651, 1829 (Corda 1829).
*** *Ricciocarpos natans* (L.) Corda, Gen. hepat.: 651, 1829 (Corda 1829). Bas.: *Riccia natans* L., Syst. Nat., ed. 10., 2: 1339, 1759 (Linnaeus 1759).

*** Targioniaceae Dumort.

by D.G. Long

*** ***Targionia* L.**, Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).

** **subg. *Prototargionia* R.M.Schust.**, Hepat. Anthocerotae N. Amer. 6: 69, 1992 (Schuster 1992d).
** *Targionia stellaris* (Müll.Frib.) Hässel, Opera Lilloana 7: 74, 1962 [1963] (Hässel 1962). Bas.: *Grimaldia stellaris* Müll.Frib., Feddes Repert. Spec. Nov. Regni Veg. 58: 61, 1955 (Müller 1955).

** **subg. *Targionia***
*** *Targionia hypophylla* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).
** *Targionia hypophylla* subsp. *linealis* W.Frey et Kürschner, Nova Hedwigia 57 (1/2): 127, 1993 (Frey and Kürschner 1993).
** *Targionia lorbeeriana* Müll.Frib., Hedwigia 79 (1/2): 78, 1940 (Müller 1940).

Incertae sedis
* *Targionia dioica* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 154, 1898 (Schiffner 1898a). [467]
* *Targionia elongata* Bisch., Syn. Hepat. 4: 576, 1846 (Gottsche et al. 1846).
* *Targionia fiorii* Gola, Ann. Bot. (Rome) 13 (1): 62, 1914 (Gola 1914a).
* *Targionia formosica* Horik., J. Jap. Bot. 11: 499, 1935 (Horikawa 1935).
* *Targionia indica* Udar et A.Gupta, Geophytology 13 (1): 83, 1983 (Udar and Gupta 1983).

467 *Targionia dioica* is probably conspecific with *Targionia hypophylla* (Söderström et al. 2010a).

*** Wiesnerellaceae Inoue

by D.G.Long

*** ***Wiesnerella*** **Schiffn.**, Österr. Bot. Z. 46 (3): 86, 1896 (Schiffner 1896b).
*** *Wiesnerella denudata* (Mitt.) Steph., Bull. Herb. Boissier 7 (5): 382 (154), 1899 (Stephani 1899c). Bas.: *Dumortiera denudata* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 125, 1860 [1861] (Mitten 1860c).
* *Wiesnerella fasciaria* C.Gao et K.C.Chang, Acta Bot. Yunnan. 3 (4): 391, 1981 (Gao et al. 1981).

Neohodgsoniales D.G.Long

*** Neohodgsoniaceae D.G.Long

by D.G. Long

*** ***Neohodgsonia*** **Perss.**, Bot. Not. 107 (1): 40, 1954 (Persson 1954). *Nom. nov. pro Hodgsonia* Perss., Hodgsonia Leafl. Stockholm: 1, 1953 (Persson 1953).
*** *Neohodgsonia mirabilis* (Perss.) Perss., Bot. Not. 107 (1): 40, 1954 (Persson 1954). Bas.: *Hodgsonia mirabilis* Perss., Hodgsonia Leafl. Stockholm: 1, 1953 (Persson 1953).

Sphaerocarpales Cavers

*** Monocarpaceae D.J.Carr ex Schelpe

by D.G. Long

*** ***Monocarpus*** **D.J.Carr**, Austral. J. Bot. 4 (2): 176, 1956 (Carr 1956).
*** *Monocarpus sphaerocarpus* D.J.Carr, Austral. J. Bot. 4 (2): 176, 1956 (Carr 1956).

*** Riellaceae Engl.

by J. G. Segarra-Moragues and F. Puche

*** ***Austroriella*** **Cargill et J.Milne**, Polish Bot. J. 58 (1): 72, 2013 (Cargill and Milne 2013).
*** *Austroriella salta* J.Milne et Cargill, Polish Bot. J. 58 (1): 72, 2013 (Cargill and Milne 2013).

*** ***Riella* Mont.**, Ann. Sci. Nat. Bot. (sér. 3) 18: 11, 1852 (Montagne 1852).

*** **subg. *Riella***

*** *Riella alatospora* Wigglesw., J. Linn. Soc., Bot. 51 (339): 317, 1937 (Wigglesworth 1937).

*** *Riella americana* M.Howe et Underw., Bull. Torrey Bot. Club 30 (4): 218, 1903 (Howe and Underwood 1903).

* *Riella battandieri* Trab., Rev. Bryol. 13 (3): 35, 1886 (Trabut 1886).

*** *Riella bialata* Trab., Rev. Bryol. 35 (4): 96, 1908 (Trabut 1908).

*** *Riella capensis* Cavers, Rev. Bryol. 30 (5): 81, 1903 (Cavers 1903).

*** *Riella choconensis* Hässel, Symp. Biol. Hung. 35: 341, 1987 (Hässel 1987).

* *Riella cyrenaica* Maire, Bull. Soc. Hist. Nat. Afrique N. 30 (5): 312, 1939 (Maire and Weiler 1939).

*** *Riella echinospora* Wigglesw., J. Linn. Soc., Bot. 51 (339): 321, 1937 (Wigglesworth 1937).

* *Riella gallica* Balansa ex Trab., Rev. Gén. Bot. 3 (35): 450, 1891 (Trabut 1891).

*** *Riella halophila* Banwell, Trans. Brit. Bryol. Soc. 1 (5): 475, 1951 (Banwell 1951).

*** *Riella helicophylla* (Bory et Mont.) Mont., Ann. Sci. Nat. Bot. (sér. 3) 18: 12, 1852 (Montagne 1852). Bas.: *Duriaea helicophylla* Bory et Mont., Ann. Sci. Nat. Bot. (sér. 3) 1: 229, 1844 (Bory and Montagne 1844).

* *Riella helicophylla* var. *macrocarpa* P.Allorge, Sched. Br. Iber. (ser. 2): 4, 1929 (Allorge 1929).

* *Riella indica* Steph. ex Kashyap, J. Bombay Nat. Hist. Soc. 25 (2): 279, 1917 (Kashyap 1917).

*** *Riella notarisii* (Mont.) Mont., Ann. Sci. Nat. Bot. (sér. 3) 18: 12, 1852 (Montagne 1852). Bas.: *Sphaerocarpos notarisii* Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 39, 1838 (Montagne 1838). [468]

** *Riella numidica* Trab., Bull. Soc. Hist. Nat. Afrique N. 25 (9): 391, 1934 [1935] (Trabut 1934).

*** *Riella pampae* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 5 (9): 207, 1979 (Hässel 1979).

*** *Riella parisii* Gottsche, Hepat. Eur., Leberm. 38-39: no. 375, 1867 (Gottsche and Rabenhorst 1867).

*** *Riella purpureospora* Wigglesw., J. Linn. Soc., Bot. 51 (339): 312, 1937 (Wigglesworth 1937).

* *Riella reuteri* Mont., Ann. Sci. Nat. Bot. (sér. 3) 18: 12, 1852 (Montagne 1852).

* *Riella sersuensis* Trab., Bull. Soc. Hist. Nat. Afrique N. 25 (9): 392, 1934 [1935] (Trabut 1934).

** *Riella spiculata* J.Taylor, Kew Bull. 9 (1): 45, 1954 (Taylor 1954).

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468 *Riella notarisii* is a species complex with poorly defined taxonomic boundaries including *Riella battandieri*, *Riella cyrenaica*, *Riella gallica*, *Riella indica*, *Riella reuteri* and *Riella sersuensis*.

*** *Riella trigonospora* Segarra et Puche, S. African J. Bot. 94: 175, 2014 (Segarra-Moragues and Puche 2014).
*** *Riella undulata* Hässel, Symp. Biol. Hung. 35: 341, 1987 (Hässel 1987).

*** **subg. *Trabutiella* Porsild**, Bot. Tidsskr. 24 (3): 327, 1902 (Porsild 1902).
*** *Riella affinis* M.Howe et Underw., Bull. Torrey Bot. Club 30 (4): 221, 1903 (Howe and Underwood 1903).
*** *Riella cossoniana* Trab., Atlas fl. Alger 1: 6, 1886 (Battandier and Trabut 1886).
*** *Riella echinata* (Müll.Frib.) Segarra, Puche et Sabovlj., Phytotaxa 159 (3): 165, 2014 (Segarra-Moragues et al. 2014). Bas.: *Riella cossoniana* var. *echinata* Müll. Frib., Rev. Bryol. Lichénol. 22 (3/4): 132, 1953 [1954] (Müller 1953).
*** *Riella gamundiae* Hässel, Rev. Bryol. Lichénol. 38 (3/4): 580, 1972 [1973] (Hässel 1972b).
*** *Riella heliospora* Segarra, Puche et Sabovlj., Syst. Bot. 37 (2): 315, 2012 (Segarra-Moragues et al. 2012).
*** *Riella mediterranea* Segarra, Puche, Sabovlj., M.Infante et Heras, Phytotaxa 159 (3): 170, 2014 (Segarra-Moragues et al. 2014).

*** Sphaerocarpaceae Heeg

by D. Long

*** ***Geothallus* Campb.**, Bot. Gaz. 21 (1): 13, 1896 (Campbell 1896).
*** *Geothallus tuberosus* Campb., Bot. Gaz. 21 (1): 13, 1896 (Campbell 1896).

*** ***Sphaerocarpos* Boehm.**, Def. gen. pl., ed. 3: 501, 1760 (Ludwig 1760).

** **subg. *Austrosphaerocarpos* R.M.Schust.**, Hepat. Anthocerotae N. Amer. 5: 813, 1992 (Schuster 1992b).
*** *Sphaerocarpos stipitatus* Bisch. ex Lindenb., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18 (1): 504i, 1836 [1837] (Lindenberg 1836).

** **subg. *Sphaerocarpos***
*** *Sphaerocarpos michelii* Bellardi, App. fl. pedem.: 52, 1792 (Bellardi 1792).
** *Sphaerocarpos texanus* Austin, Bull. Torrey Bot. Club 6 (30): 158, 1877 (Austin 1877).

Incertae sedis
*** *Sphaerocarpos cristatus* M.Howe, Mem. Torrey Bot. Club 7: 66, 1899 (Howe 1899).
*** *Sphaerocarpos donnellii* Austin, Bull. Torrey Bot. Club 6 (30): 157, 1877 (Austin 1877).
*** *Sphaerocarpos drewiae* Wigglesw., Univ. Calif. Publ. Bot. 16 (3): 129, 1929 (Wigglesworth 1929).

*** *Sphaerocarpos europaeus* Lorb., Jahrb. Wiss. Bot. 80: 665, 1934 (Lorbeer 1934). [469]
*** *Sphaerocarpos hians* Haynes, Bull. Torrey Bot. Club 37 (5): 225, 1910 (Haynes 1910).
** *Sphaerocarpos muccilloi* E.Vianna, Lindbergia 7 (1): 58, 1981 (Vianna 1981).

Names in genera not currently accepted

The following taxa in unsupported genera are all poorly understood. We list them here rather than making new combinations for names we do not know the status of.

***Acrostolia* Dumort.**, Recueil Observ. Jungerm.: 26, 1835 (Dumortier 1835). [470]
* *Acrostolia alata* (Gottsche et Rabenh.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Pseudoneura alata* Gottsche et Rabenh., Hepat. Eur., Leberm. 56-57: no. 560, 1873 (Gottsche and Rabenhorst 1873b).
* *Acrostolia brevifolia* (Gottsche et Rabenh.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Pseudoneura brevifolia* Gottsche et Rabenh., Hepat. Eur., Leberm. 56-57: no. 560, 1873 (Gottsche and Rabenhorst 1873b).

***Aphanolejeunea* A.Evans**, Bull. Torrey Bot. Club 38 (6): 272, 1911 (Evans 1911).
* *Aphanolejeunea lancifera* R.M.Schust., Phytologia 45 (5): 434, 1980 (Schuster 1980b). [471]
* *Aphanolejeunea minima* Tixier, Ann. Fac. Sci. Yaoundé 20: 7, 1975 (Tixier 1975b). [472]

***Aspiromitus* Steph.**, Sp. Hepat. (Stephani) 5: 957, 1916 (Stephani 1916b). [473]
* *Aspiromitus asper* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 402, 1955 (Schiffner 1955).
* *Aspiromitus bullosus* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 403, 1955 (Schiffner 1955).
* *Aspiromitus crenatifrons* Steph., Sp. Hepat. (Stephani) 5: 968, 1916 (Stephani 1916b).
* *Aspiromitus lobatus* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 405, 1955 (Schiffner 1955).
* *Aspiromitus squamulosus* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 407, 1955 (Schiffner 1955).

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469 *Sphaerocarpos europaeus* is clearly distinct from *Sphaerocarpos texanus* (Bell et al. 2013).
470 *Acrostolia* is congeneric with *Riccardia*, but a few taxa have neither been transferred nor synonymized.
471 *Aphanolejeunea lancifera* is a *Drepanolejeunea* species (Pócs et al. 2014).
472 *Aphanolejeunea minima* seems to be close to *Cololejeunea gracilis* based on the drawing in the original description, but the type specimen (not available for study) seems to be very fragmentary, having only reduced leaves, so its identity is uncertain (Pócs and Bernecker 2009).
473 *Aspiromitus* is congeneric with *Anthoceros*, but some taxa have neither been transferred nor synonymized.

***Crossotolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Crossotolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 161, 1884 (Spruce 1884). [474]

* *Crossotolejeunea curvifolia* Steph., Hedwigia 35 (3): 75, 1896 (Stephani 1896b). [475]

***Eulejeunea* Steph.**, Hedwigia 27 (2): 60, 1888 (Stephani 1888a). [476]

* *Eulejeunea setulosa* Steph., Sp. Hepat. (Stephani) 6: 421, 1923 (Stephani 1923).

* *Eulejeunea subpililoba* Steph., Sp. Hepat. (Stephani) 6: 420, 1923 (Stephani 1923). [477]

***Euosmolejeunea* (Spruce) Steph.**, Hedwigia 28 (3): 170, 1889 (Stephani 1889d). Bas.: *Lejeunea* subg. *Euosmolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 241, 1884 (Spruce 1884). [478]

* *Euosmolejeunea parvistipula* (Lindenb. et Gottsche) Steph., Hedwigia 29 (1): 80, 1890 (Stephani 1890a). Bas.: *Lejeunea parvistipula* Lindenb. et Gottsche, Syn. Hepat. 5: 761, 1847 (Gottsche et al. 1847).

* *Euosmolejeunea tenerrima* (Nees) Steph., Sp. Hepat. (Stephani) 5: 589, 1914 (Stephani 1914b). Bas.: *Jungermannia sordida* var. *tenerrima* Nees, Fl. Bras. (Martius) 1 (1): 363, 1833 (Nees 1833a). [479]

***Fimbraria* Nees**, Horae Phys. Berol.: 44, 1820 (Nees 1820) nom. illeg. [480]

* *Fimbraria gigantea* Steph., Bull. Herb. Boissier 7 (2): 93 (106), 1899 (Stephani 1899a). [481]

* *Fimbraria incrassata* Steph., Bull. Herb. Boissier 7 (2): 87 (100), 1899 (Stephani 1899a). [482]

* *Fimbraria kamerunensis* Steph., Sp. Hepat. (Stephani) 6: 14, 1917 (Stephani 1917a). [483]

* *Fimbraria pirottae* Gola, Ann. Bot. (Rome) 13 (1): 64, 1914 (Gola 1914a).

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474 *Crossotolejeunea* is congeneric with *Lejeunea*, but one taxon has neither been transferred nor synonymized.

475 *Crossotolejeunea curvifolia* has doubtful status, the type specimen could not be found in G (Reiner-Drehwald and Goda 2000).

476 *Eulejeunea* is congeneric with *Lejeunea* subg. *Lejeunea*, but a few taxa have neither been transferred nor synonymized.

477 *Eulejeunea subpililoba* is morphologically similar to *Lejeunea spiniloba*.

478 *Euosmolejeunea* is here treated as a subgenus of *Cheilolejeunea*, but a few taxa have neither been transferred nor synonymized.

479 *Euosmolejeunea tenerrima* is a doubtful taxon described with three syntypes, two from Brazil and one from Java. The Java material is probably not the same species as the material from Brazil.

480 *Fimbraria* is congeneric with *Asterella*, but the following taxa have neither been transferred nor synonymized, and their status is doubtful.

481 *Fimbraria gigantea* belongs to *Asterella* subg. *Asterella* sect. *Brachyblepharis*.

482 *Fimbraria incrassata* was provisionally placed in synonymy with *Asterella abyssinica* (Wigginton and Grolle 1996), and was listed as an unassigned *Asterella* species by Wigginton (2009).

483 *Fimbraria kamerunensis* was provisionally placed in synonymy with *Asterella abyssinica* (Wigginton and Grolle 1996), and was listed as an unassigned *Asterella* species by Wigginton (2009).

***Hygrolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 124, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Hygrolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 230, 1884 (Spruce 1884). [484]

* *Hygrolejeunea cubensis* Steph., Sp. Hepat. (Stephani) 5: 533, 1914 (Stephani 1914b).

* *Hygrolejeunea harpaphylla* Steph., Sp. Hepat. (Stephani) 5: 552, 1914 (Stephani 1914b).

* *Hygrolejeunea pacifica* Steph., Sp. Hepat. (Stephani) 6: 411, 1923 (Stephani 1923).

* *Hygrolejeunea parvicalycina* Steph., Hedwigia 35 (3): 103, 1896 (Stephani 1896b).

* *Hygrolejeunea parvistipula* Steph., Sp. Hepat. (Stephani) 5: 568, 1914 (Stephani 1914b).

* *Hygrolejeunea patellirostris* Steph., Hedwigia 35 (3): 103, 1896 (Stephani 1896b). [485]

* *Hygrolejeunea staudtiana* Steph., Sp. Hepat. (Stephani) 5: 528, 1914 (Stephani 1914b). [486]

***Hypenantron* Corda**, Gen. hepat.: 648, 1829 (Corda 1829). [487]

* *Hypenantron brachypus* Steph. ex Lamothe, Rech. Anat. Taxinom. Gamét. Marchantiales: 107, 1919 (Lamothe 1919).

* *Hypenantron brasiliense* Steph. ex Lamothe, Rech. Anat. Taxinom. Gamét. Marchantiales: 104, 1919 (Lamothe 1919).

***Jamesoniella* (Spruce) Carrington**, Cat. Brit. Moss. Hepat.: 25, 1881 (Carrington 1881). Bas.: *Jungermannia* subg. *Jamesoniella* Spruce, J. Bot. 14: 230, 1876 (Spruce 1876a). [488]

* *Jamesoniella convoluta* Steph., Sp. Hepat. (Stephani) 6: 433, 1924 (Stephani 1924).

***Kingiolejeunea* H.Rob.**, Bryologist 70 (1): 53, 1967 (Robinson 1967). [489]

* *Kingiolejeunea guayanensis* H.Rob., Bol. Soc. Venez. Ci. Nat. 32 (132/133): 259, 1976 (Robinson 1976b).

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484 *Hygrolejeunea* is congeneric with *Lejeunea*, but some taxa have neither been transferred nor synonymized.

485 *Hygrolejeunea patellirostris* is conspecific with *Lejeunea acuta* in Tixier (1995b) and Wigginton and Grolle (1996), but it was kept as an unassigned *Lejeunea* species by Wigginton (2009).

486 *Hygrolejeunea staudtiana* is likely to be either *Lejeunea brenanii* or *Lejeunea isophylla* (Wigginton and Grolle 1996). It was kept as an unassigned *Lejeunea* species by Wigginton (2009).

487 *Hypenantron* is congeneric with *Asterella*, but a few taxa have neither been transferred nor synonymized.

488 *Jamesoniella* is congeneric with *Syzygiella* (Feldberg et al. 2010a), but one taxon has neither been transferred nor synonymized. The holotype was burned in B (Grolle 1971b) and it is not clear where it belongs.

489 *Kingiolejeunea* is congeneric with *Lepidolejeunea*, but one taxon has neither been transferred nor synonymized.

***Leptocolea* (Spruce) A.Evans**, Bull. Torrey Bot. Club 38 (6): 261, 1911 (Evans 1911). Bas.: *Lejeunea* sect. *Leptocolea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 294, 1884 (Spruce 1884). [490]

* *Leptocolea sumatrana* Herzog, Ann. Bryol. 5: 96, 1932 (Herzog 1932a). [491]

***Mastigobryum* (Nees) Lindenb. et Gottsche**, Syn. Hepat. 2: 214, 1845 (Gottsche et al. 1845a) nom. illeg. Bas.: *Herpetium* sect. *Mastigobryum* Nees, Naturgesch. Eur. Leberm. 3: 43, 1838 (Nees 1838b). [492]

* *Mastigobryum aberrans* Steph., Sp. Hepat. (Stephani) 6: 486, 1924 (Stephani 1924).

* *Mastigobryum asperum* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 121, 1914 (Stephani and Watts 1914).

* *Mastigobryum deningeri* Herzog, Beih. Bot. Centralbl. 38 (2): 322, 1921 (Herzog 1921).

* *Mastigobryum karstenii* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 952 (502), 1908 (Stephani 1908b).

* *Mastigobryum ledermannii* Steph., Sp. Hepat. (Stephani) 6: 486, 1924 (Stephani 1924).

* *Mastigobryum londbergii* Steph., Sp. Hepat. (Stephani) 6: 487, 1924 (Stephani 1924).

* *Mastigobryum longifolium* Steph., Sp. Hepat. (Stephani) 6: 487, 1924 (Stephani 1924).

* *Mastigobryum minutitextum* Steph., Sp. Hepat. (Stephani) 6: 487, 1924 (Stephani 1924).

* *Mastigobryum multidens* Steph., Sp. Hepat. (Stephani) 6: 487, 1924 (Stephani 1924).

* *Mastigobryum muscicola* Steph., Sp. Hepat. (Stephani) 6: 486, 1924 (Stephani 1924).

* *Mastigobryum nigricans* Herzog, Beih. Bot. Centralbl. 38 (2): 322, 1921 (Herzog 1921).

* *Mastigobryum nipuranum* Steph., Sp. Hepat. (Stephani) 6: 485, 1924 (Stephani 1924).

* *Mastigobryum palmicola* Steph., Sp. Hepat. (Stephani) 6: 488, 1924 (Stephani 1924).

* *Mastigobryum rajanum* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 190, 1931 (Herzog 1931a).

* *Mastigobryum ribehanum* Steph., Sp. Hepat. (Stephani) 6: 488, 1924 (Stephani 1924).

* *Mastigobryum ruficaule* Beauverd, Sp. Hepat. (Stephani) 6: 485, 1924 (Stephani 1924).

* *Mastigobryum schraderbergii* Steph., Sp. Hepat. (Stephani) 6: 489, 1924 (Stephani 1924).

* *Mastigobryum squamulistipum* Steph., Sp. Hepat. (Stephani) 6: 480, 1924 (Stephani 1924).

* *Mastigobryum subhyalinum* Steph., Sp. Hepat. (Stephani) 6: 482, 1924 (Stephani 1924).

* *Mastigobryum venezuelanum* Molk., Syn. hepat. jav.: 104, 1856 [1857] (Sande Lacoste 1856b).

* *Mastigobryum vermiculare* Herzog, Hedwigia 66 (6): 339, 1926 (Herzog 1926).

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490 *Leptocolea* is congeneric with *Cololejeunea*, but one taxon has neither been transferred nor synonymized.

491 *Leptocolea sumatrana* is possibly conspecific with *Cololejeunea equialbi*.

492 *Mastigobryum* is congeneric with *Bazzania*, but many species have not been studied recently and thus not transferred. It is possible that some prove to be older names of existing taxa when their identities are known. Grolle and Piippo (1984) could not study *Mastigobryum ledermannii*, *Mastigobryum londbergii* and *Mastigobryum longifolium* since the types were destroyed in B.

***Nemoursia* Mérat**, Ann. Agric. Franç. (ser. 4) 2 (7): 10, 1840 (Mérat 1840).

* *Nemoursia tuberculata* Mérat, Ann. Agric. Franç. (ser. 4) 2 (7): 10, 1840 (Mérat 1840). [493]

***Physocolea* (Spruce) Steph.**, Sp. Hepat. (Stephani) 5: 863, 1916 (Stephani 1916b). Bas.: *Lejeunea* sect. *Physocolea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 292, 1884 (Spruce 1884). [494]

* *Physocolea tambillensis* (Loitl.) Steph., Sp. Hepat. (Stephani) 5: 885, 1916 (Stephani 1916b). Bas.: *Lejeunea tambillensis* Loitl., Diagn. pl. nov.: 20, 1894 (Loitlesberger 1894). [495]

***Plectocolea* (Mitt.) Mitt.**, Fl. vit.: 405, 1871 [1873] (Mitten 1871). Bas.: *Solenostoma* subg. *Plectocolea* Mitt., J. Linn. Soc., Bot. 8 (31): 156, 1864 [1865] (Mitten 1864a). [496]

* *Plectocolea subamoena* S.Winkl., Rev. Bryol. Lichénol. 42 (3): 821, 1976 (Winkler 1976). [497]

***Polyotus* Gottsche**, Syn. Hepat. 2: 244, 1845 (Gottsche et al. 1845a) nom. illeg. [498]

* *Polyotus peckianus* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 224, 1869 (Austin 1869).

***Schisma* Dumort.**, Commentat. Bot. (Dumortier): 114, 1822 (Dumortier 1822) nom. illeg. [499]

* *Schisma orizabense* (Gottsche) Steph., Sp. Hepat. (Stephani) 4: 19, 1909 (Stephani 1909d). Bas.: *Sendtnera orizabensis* Gottsche, Mexik. Leverm.: 139, 1863 (Gottsche 1863).

* *Schisma uleanum* Steph., Hedwigia 44 (4): 225, 1905 (Stephani 1905a).

***Strepsilejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea* sect. *Strepsilejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 168, 1884 (Spruce 1884). [500]

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493 *Nemoursia tuberculata* is a *Conocephalum* species.

494 *Physocolea* is congeneric with *Cololejeunea*, but one taxon has neither been transferred nor synonymized.

495 *Physocolea tambillensis* is possibly conspecific with *Myriocoleopsis minutissima*.

496 *Plectocolea* is now regarded a subgenus of *Solenostoma*, but one taxon has neither been transferred nor synonymized.

497 *Plectocolea subamoena* is probably conspecific with *Solenostoma amoena*.

498 *Polyotus* is a superfluous name for *Lepidolaena*, but a few taxa have neither been transferred nor synonymized.

499 *Schisma* is congeneric with *Herbertus*, but a few taxa have neither been transferred nor synonymized.

500 *Strepsilejeunea* is congeneric with *Cheilolejeunea*, but some taxa have neither been transferred nor synonymized.

* *Strepsilejeunea apollinea* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 291, 1913 (Stephani 1913a). Bas.: *Lejeunea apollinea* Gottsche, Fragm. (Mueller): 64, 1880 (Gottsche 1880).
* *Strepsilejeunea durelii* Schiffn., Österr. Bot. Z. 49 (6): 206, 1899 (Schiffner 1899a).
* *Strepsilejeunea hamatifolia* Steph., Sp. Hepat. (Stephani) 6: 396, 1923 (Stephani 1923).
* *Strepsilejeunea lanceolata* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 283, 1913 (Stephani 1913a). Bas.: *Lejeunea lanceolata* Gottsche, Syn. Hepat. 3: 353, 1845 (Gottsche et al. 1845b).
* *Strepsilejeunea muscicola* Herzog, Hedwigia 74 (2): 96, 1934 (Herzog 1934a).
* *Strepsilejeunea novae-guineae* Steph., Sp. Hepat. (Stephani) 6: 397, 1923 (Stephani 1923).
* *Strepsilejeunea obtusistipula* Steph., Biblioth. Bot. 87 (2): 258, 1916 (Stephani 1916a).
* *Strepsilejeunea papulifolia* Steph., Biblioth. Bot. 87 (2): 259, 1916 (Stephani 1916a).
* *Strepsilejeunea pectiniformis* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 285, 1913 (Stephani 1913a). Bas.: *Lejeunea pectiniformis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 156, 1864 (Gottsche 1864).
* *Strepsilejeunea renistipula* Steph., Sp. Hepat. (Stephani) 5: 289, 1913 (Stephani 1913a).
* *Strepsilejeunea vatovae* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 479, 1947 (Gerola 1947).

***Thysanolejeunea* (Spruce) Steph.**, Hedwigia 31 (1): 20, 1892 (Jack and Stephani 1892). Bas.: *Lejeunea* subg. *Thysanolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 105, 1885 (Spruce 1885).
* *Thysanolejeunea africana* Sim, Trans. Roy. Soc. South Africa 15 (1): 50, 1926 (Sim 1926). [501]

***Trachylejeunea* (Spruce) Steph.**, Hedwigia 28 (4): 262, 1889 (Stephani 1889c) nom. rejic. Bas.: *Lejeunea* subg. *Trachylejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 180, 1884 (Spruce 1884).
* *Trachylejeunea conifera* Steph., Sp. Hepat. (Stephani) 5: 302, 1913 (Stephani 1913a).
* *Trachylejeunea cristuliflora* Steph., Hedwigia 35 (3): 137, 1896 (Stephani 1896b).
* *Trachylejeunea englishii* Steph., Bull. Misc. Inform. Kew 1899 (151/152): 126, 1899 (MacGregor 1899). [502]
* *Trachylejeunea jamaicensis* Pearson, Ann. Bryol. 4: 98, 1931 (Pearson 1931b).
* *Trachylejeunea kusaiensis* Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 147, 1965 (Inoue and Miller 1965).

501 *Thysanolejeunea africana* may be conspecific with *Caudalejeunea africana*.

502 *Trachylejeunea englishii* is not a *Trachylejeunea* species (see Zhu and So 1999a). The status needs further study.

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