

ON THE NOMENCLATURE OF *GOTTSCHEA* NEES EX MONT.
1843 (SCHISTOCHILACEAE, JUNGERMANNIALES)

Riclef Grolle¹ and Gea Zijlstra²

Summary

Gottschea Nees ex Mont. 1843 has been published without generic description. It is valid there by indirect reference to *Jungermannia* sect. *Nemorosae* [subsect.] *Aligerae* Reinw. et al. 1824 only. The type of both is *J. aligera* Nees et Blume (Art. 22.4). *Schistochilaster* H. Miller 1970 is a nomenclatural synonym and *Paraschistochila* Schust. 1963 and *Tegulifolium* Hässel 1973 are taxonomic ones. 18 new combinations are proposed under *Gottschea*.

Schistochila Dum. 1835 s. amplo has recently been split into several genera (Schuster, 1963; Miller, 1970; Hässel de Menendez, 1973; Schuster and Engel, 1982). This raised the question, whether the synonyms of *Schistochila* s. amplo have to be kept as those of *Schistochila* s. str. as well.

Following Miller's 1970 nomenclatural treatment of *Gottschea* Nees ex Mont. 1843, Schuster (1971, p. 625 [footnote]) concluded that "there is no *Schistochila*-*Gottschea* problem concerning nomenclature."

A recent checking of the protologue of *Gottschea* in Montagne (1843) revealed however that Miller's 1970 typification of *Gottschea* Nees ex Mont. 1843 is untenable. The reasons are the following:

Montagne (1843) described three new species of *Gottschea*, and mentioned three further species. The study of the fructification of *G. neesii* made him conclude that the hepatics of the "section *Aligerae*" should be considered as a genus of its own. He wrote this to Nees, who answered him that he had come to the same conclusions, and was publishing this now as the n.g. *Gottschea* in the first fascicule of the 'Synopsis Hepaticarum' (which appeared in 1844). Montagne did *not* provide a generic diagnosis, but *Gottschea* is validly published by him, by his indirect reference to the "section *Aligerae*." Hence *J. aligera*, the type of the *Aligerae*, is the type of *Gottschea* (Art. 22.4).

With *Jungermannia aligera* Nees et Blume as the type of *Gottschea* Nees ex Mont. 1843, this generic name has to replace *Paraschistochila* Schust. 1963 following the taxonomic concept advocated by Schuster (1971) and Schuster and Engel (1977). Unfortunately, 18 new combinations are required. The name commemorates, however, C. M. Gottsche (1808–1892), an eminent expert of hepatics in the past century and physician to the poor in Hamburg.

Gottschea Nees ex Mont., Ann. Sci. Nat., Bot., ser. 2, 19: 245. Apr 1843. Type (Art. 7.9): *G. aligera* (Nees et Blume) Nees (*Jungermannia a.* Nees et Blume). Based on *Jungermannia* sect. *Nemorosae* [subsect.] *Aligerae* Reinw. et al., Nova Acta Acad. Caes. Leop. 12: 189, 234. 1824. Nees, Enumeratio Pl. Crypt. Jav. 66; 15 Sep–31 Dec 1830. Type (Art. 22.4): *Jungermannia aligera* Nees et Blume.

■ *Schistochilaster* H. Miller, Phytologia 20: 317. 4 Sep 1970; nom. illeg. (Art. 63.1). Type: *S. aliger* (Nees et Blume) H. Miller ("*aligerum*") (*Jungermannia a.* Nees et Blume).

■ *Paraschistochila* Schust., Journ. Hattori Bot. Lab. 26: 259. "Jul" 29 Aug 1963. Type: *P. pinnatifolia* (Hook.) Schust. (*Jungermannia p.* Hook.).

¹ Sektion Biologie, Friedrich-Schiller-Universität, Goetheallee 26, DDR-69 Jena.

² Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht, The Netherlands.

- = *Tegulifolium* Hässel, Boletim Soc. Argent. Bot. 15: 252. Dec 1973. Type: *T. spegazzinianum* (Mass.) Hässel (*Gottschea* s. Mass.)
- G. subg. Nothoschistochila** (Schust.) comb. nov.
 = *Paraschistochila* subg. *Nothoschistochila* Schust., Bull. Nat. Sci. Mus. Tokyo 14: 642. 1971. Type: *G. spegazziniana* Mass.
- G. spegazziniana* Mass., Nuovo Giorn. Bot. Ital. 17: 206. 1885. *Schistochilaster* s. (Mass.) H. Miller, Phytologia 20: 319. 1970. *Paraschistochila* s. (Mass.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 643. 1971. *Tegulifolium* s. (Mass.) Hässel, Boletim Soc. Argent. Bot. 15: 252. 1973.
- G. subg. Paraschistochila** (Schust.) stat. et comb. nov.
 = *Paraschistochila* Schust., Journ. Hattori Bot. Lab. 26: 259. 1963. *Schistochila* sect. *Paraschistochila* (Schust.) Hamlin, Records Dominion Mus. (Wellington) 7: 333. 1972. Type: *G. pinnatifolia* (Hook.) Nees (*Jungermannia* p. Hook.).
 = (by lectotypification) *Gottschea* sect. *Complicatae* Gott. et al., Synop. Hepat.: 21. 1844. *Schistochila* sect. *Complicatae* (Gott. et al.) Schiffn. in Engler et Prantl, Natürl. Pflanzenfam. 1(3): 111. 1893. Lectotype (as a residue in Schiffner, 1893: 111): *G. pinnatifolia* (Hook.) Nees (*Jungermannia* p. Hook.).
- G. pinnatifolia* (Hook.) Nees in Gott. et al., Synop. Hepat. 22. 1844. *Jungermannia* p. Hook., Musci Exot. 2: 114. 1819. *Schistochila* p. (Hook.) Trev., Memorie Real. Istit. Lombard. Sci. Mat. Nat. ser. 3, 4: 392. 1877. *Paraschistochila* p. (Hook.) Schust., Journ. Hattori Bot. Lab. 26: 259. 1963.
 = *Gottschea pinnatifida* Goebel, Flora (Jena) 96: 101, 102. Fig. 70. 1906 (Schuster, 1963, p. 259).
 = *Gottschea plumulosa* Col., Trans. Proc. New Zeal. Inst. 20: 249. 1888 (Stephani, 1892, p. 274; Hodgson, 1941, p. 190).
- G. subg. Gottschea**
 = *Paraschistochila* subg. *Acroschistochila* Schust., Bull. Nat. Sci. Mus. Tokyo 14: 647. 1971. Type: *G. conchophylla* (Hodgs. et Allison) comb. nov. (*Schistochila* c. Hodgs. et Allison).
- G. sect. Acroschistochila** (Schust.) stat. et comb. nov.
 = *Paraschistochila* subg. *Acroschistochila* Schust., Bull. Nat. Sci. Mus. Tokyo 14: 647. 1971. Type: *G. conchophylla* (Hodgs. et Allison) comb. nov. (*Schistochila* c. Hodgs. et Allison).
- G. conchophylla** (Hodgs. et Allison) comb. nov. *Schistochila conchophylla* Hodgs. et Allison in Hodgson, Trans. Roy. Soc. New Zealand 71: 191. 1941 ("Schistophylla"). *Schistochilaster* c. (Hodgs. et Allison) H. Miller, Phytologia 20: 318. 1970. *Paraschistochila* c. (Hodgs. et Allison) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 647. 1971.
- G. sect. Gottschea**
 = *Jungermannia* sect. *Nemorosae* [subsect.] *Aligerae* Reinw. et al., Nova Acta Acad. Caes. Leop. 12: 189, 234, 1824. Type (Art. 22.4): *J. aligera* Nees et Blume.
 = *Gottschea* sect. *Dorsilobae* Gott. et al., Synop. Hepat.: 14. 1844; nom. illeg.: Art. 63.1. Type (Art. 7.11): *G. aligera* (Nees et Blume) Nees (*Jungermannia* a. Nees et Blume).
 = *Schistochila* sect. *Dorsilobae* Schiffn. in Engler et Prantl, Natürl. Pflanzenfam. 1(3): 111. 1893. Type (Art. 7.9): *S. aligera* (Nees et Blume) Jack et Steph. (*Jungermannia* a. Nees et Blume).
 = *Schistochila* sect. *Philippinenses* Grolle, Journ. Hattori Bot. Lab. 29: 250. 1960. *Paraschistochila* sect. *Philippinenses* (Grolle) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 647. 1971 ("Philippensis"). Type: *S. philippinensis* (Mont.) Jack et Steph. (*Gottschea* p. Mont.).
 = *Paraschistochila* sect. *Tuloides* Schust., Bull. Nat. Sci. Mus. Tokyo 14: 647. 1971. Type: *P. tuloides* (Hook. f. et Tayl.) Schust. (*Jungermannia* t. Hook. f. et Tayl.).
- G. aligera* (Nees et Blume) Nees in Gott. et al., Synop. Hepat.: 17. 1844. *Jungermannia* a. Nees et Blume in Nees, Nova Acta Acad. Caes. Leop. 11: 135. 1823. *Schistochila* a. (Nees et Blume) Jack et Steph., Hedwigia 31: 12. 1892. *Schistochilaster* a. (Nees et Blume) H. Miller, Phytologia 20: 318. 1970. *Paraschistochila* a. (Nees et Blume) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 650. 1971.
 = *Schistochila curtisii* Steph., Spec. Hep. 4: 77. 1909. *Schistochilaster* c. (Steph.) H. Miller, Phytologia 20: 318. 1970. (Kitagawa, 1973, p. 270).

- =*Schistochila cuspidata* Steph., Spec. Hep. 4: 79. 1909. *Paraschistochila c.* (Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 651. 1971. (Buch, 1939, p. 5).
- =*Schistochila maxima* Steph., Spec. Hep. 6: 493. 1924. *Schistochilaster m.* (Steph.) H. Miller, Phytologia 20: 319. 1970. (Kitagawa, 1973, p. 270).
- (Further synonyms are listed by Buch, 1939 and Grolle, 1966).
- G. aligeriformis** De Not., Memorie Real. Accad. Sci. Torino ser. 2, 28: 8. 1874 ("*aligeraeformis*"). *Schistochila a.* (De Not.) Schiffn., Conspectus Hep. Arch. Ind.: 213. 1898. *Schistochilaster a.* (De Not.) H. Miller, Phytologia 20: 317. 1970.
- G. brassii** (Grolle) comb. nov.
Schistochila brassii Grolle, Journ. Hattori Bot. Lab. 31: 5. 1968.
- G. brotheri** (Steph.) comb. nov.
Schistochila brotheri Steph., Spec. Hep. 4: 85. 1909. *Schistochilaster b.* (Steph.) H. Miller, Phytologia 20: 318. 1970.
- G. cheesemanii** (Steph.) comb. nov.
Schistochila cheesemanii Steph., Spec. Hep. 4: 96. 1909 ("*cheesemani*"). *Schistochilaster c.* (Steph.) H. Miller, Phytologia 20: 318. 1970. *Paraschistochila c.* (Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 651. 1971.
- G. crinita** (Grolle) comb. nov.
Schistochila crinita Grolle, Journ. Hattori Bot. Lab. 31: 7. 1968.
- G. cuspidiloba** (Steph.) comb. nov.
Schistochila cuspidiloba Steph., Spec. Hep. 4: 82. 1909. *Schistochilaster c.* (Steph.) H. Miller, Phytologia 20: 318. 1970. *Paraschistochila c.* (Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 651. 1971.
- G. engleriana** (Steph.) comb. nov.
Schistochila engleriana Steph., Spec. Hep. 4: 69. 1909. *Schistochilaster e.* (Steph.) H. Miller, Phytologia 20: 318. 1970. *Paraschistochila e.* (Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 650. 1971.
- G. fleischeri** (Steph.) comb. nov.
Schistochila fleischeri Steph., Spec. Hep. 4: 81. 1909. *Schistochilaster f.* (Steph.) H. Miller, Phytologia 20: 318. 1970. *Paraschistochila f.* (Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 651. 1971.
- G. fragilis** (Steph.) comb. nov.
Schistochila fragilis Steph., Spec. Hep. 4: 84. 1909. *Schistochilaster f.* (Steph.) H. Miller, Phytologia 20: 318. 1970.
- G. gaudichaudii** Gott., Ann. Sci. Nat., Bot. ser. 4, 8: 319. 1857. *Schistochila g.* (Gott.) Schiffn., Conspectus Hep. Arch. Indici: 216. 1898. *Paraschistochila g.* (Gott.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 651. 1971.
- G. graeffeana** (Jack et Steph.) comb. nov.
Schistochila graeffeana Jack et Steph., Bot. Centralbl. 60: 97. 1894 ("*Schistocheila*"). *Schistochilaster g.* (Jack et Steph.) H. Miller, Phytologia 20: 318. 1970. *Paraschistochila g.* (Jack et Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 651. 1971.
- G. integerrima** (Steph.) comb. nov.
Schistochila integerrima Steph., Spec. Hep. 6: 492. 1924. *Schistochilaster i.* (Steph.) H. Miller, Phytologia 20: 318. 1970.
- G. lacerata** (Steph.) comb. nov.
Schistochila lacerata Steph., Spec. Hep. 6: 492. 1924. *Schistochilaster l.* (Steph.) H. Miller, Phytologia 20: 319. *Paraschistochila l.* (Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 650. 1971.
- G. neesii** Mont., Ann. Sci. Nat., Bot. ser. 2, 19: 244. 1843. *Schistochila n.* (Mont.) Lindb., Journ. Linn. Soc., Bot. 13: 194. 1872. *Schistochilaster n.* (Mont.) H. Miller, Phytologia 20: 319. 1970. *Paraschistochila n.* (Mont.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 650. 1971.
- =*Gottschea schwaegricheniana* Nees et Mont. in Mont., Ann. Sci. Nat., Bot. Ser. 2, 19: 244. 1843; nom. inval.: Art. 34(3) (pro syn.); Bonner, Index Hepat. 6: 500. 1966; nom. inval.: Art. 32.1(c).
- =*Schistochila borbonica* Steph., Bot. Gazette 15: 290. 1890 ("*Schistocheila*"). *Gottschea b.* (Steph.) Bonner, Index Hepat. 6: 488. 1966. (Jones, 1976, p. 38).
- G. nuda** (Horik.) comb. nov.
Schistochila nuda Horik., Journ. Sci. Hiroshima Univ., ser. B, 2(2): 38. 1934. *Paraschistochila n.* (Horik.) Inoue, Illust. Jap. Hep. 2: 179. 1976.
- G. philippinensis** Mont., Ann. Sci. Nat., Bot. ser. 2, 19: 244. 1843. *Schistochila p.* (Mont.) Jack et

- Steph., Bot. Centralbl. 60: 98. 1894 ("Schistocheila"). *Schistochilaster p.* (Mont.) H. Miller. Phytologia 20: 319. 1970. *Paraschistochila p.* (Mont.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 647. 1971 ("philippensis").
- ≡ *Schistochila linearifolia* Jack et Steph., Bot. Centralbl. 60: 98. 1894 ("Schistocheila"). *Schistochilaster l.* (Jack et Steph.) H. Miller. Phytologia 20: 319. 1970. *Paraschistochila l.* (Jack et Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 651. 1971. (syn. nov.; isotype in BM!, W!).
- ≡ *Schistochila commutata* Steph., Spec. Hep. 4: 74. 1909. *Paraschistochila c.* (Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 650. 1971. (Buch. 1939, p. 7).
- ≡ *Schistochila sumatrana* Steph., Spec. Hep. 4: 74. 1909. *Paraschistochila s.* (Steph.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 650. 1971. (Buch. 1939, p. 7).
- (Further synonyms are listed by Buch. 1939 and Grolle. 1966).
- G. sphagnoides** (Schwägr.) Lindb., Öfvers. Finska Vet.-Soc. Förhandl. 12: 82. 1870. *Jungermannia s.* Schwägr., Hist. Musc. Hep. Prodromus: 23. 1814. *Schistochila s.* (Schwägr.) Steph., Spec. Hep. 4: 70. 1909.
- ≡ *Jungermannia thouarsii* Hook., Musci Exot. 1: tab. 48. 1818. *Gottschea t.* (Hook.) Nees in Gott. et al., Synop. Hepat.: 15. 1844. *Schistochila t.* (Hook.) Trev., Memorie Real. Istit. Lombard. Sci. Mat. Nat. ser. 3, 4: 392. 1877. (Stephani. 1909, p. 70).
- G. spinosa** (Steph.) comb. nov.
- Schistochila spinosa* Steph., Spec. Hep. 6: 495. 1924. *Schistochilaster s.* (Steph.) H. Miller. Phytologia 20: 319. 1970.
- G. tuloides** (Hook. f. et Tayl.) Gott. et al., Synop. Hepat.: 620. 1846. *Jungermannia t.* Hook. f. et Tayl., London Journ. Bot. 3: 558. 1844. *Schistochila t.* (Hook. f. et Tayl.) Steph., Spec. Hep. 4: 89. 1909. *Schistochilaster t.* (Hook. f. et Tayl.) H. Miller. Phytologia 20: 320. 1970. *Paraschistochila t.* (Hook. f. et Tayl.) Schust., Bull. Nat. Sci. Mus. Tokyo 14: 647. 1971.
- ≡ *Gottschea ramulosa* Col., Trans. Proc. New Zealand Inst. 18: 243. 1886. *Schistochila r.* (Col.) Steph., Spec. Hep. 4: 92. 1909. (Hodgson. 1941, p. 193).
- ≡ *Gottschea homophylla* Col., Trans. Proc. New Zealand Inst. 20: 250. 1888. (Hodgson. 1941, p. 194: "seems to be *Schistochila* tuloides").
- G. viridis** (Steph.) comb. nov.
- Schistochila viridis* Steph., Spec. Hep. 6: 496. 1924. *Schistochilaster v.* (Steph.) H. Miller. Phytologia 20: 320. 1970.

Excludenda

Included are the binomials of *Gottschea* and *Schistochilaster* not listed above, in alphabetical order of the epithets.

- G. alata* (Lehm.) Nees in Gott. et al., Synop. Hepat.: 16. 1844 (*Jungermannia a.* Lehm. 1829).
- ≡ *Schistochila a.* (Lehm.) Schiffn. 1893.
- G. albispula* Col., Trans. Proc. New Zealand Inst. 18: 242. 1886. "seems to be *Schistochila* repleta" (Hook. f. et Tayl. 1844) Steph. 1909. (Hodgson. 1941, pp. 184, 194).
- G. appendiculata* (Hook.) Nees in Gott. et al., Synop. Hepat.: 14. 1844 (*Jungermannia a.* Hook. 1818).
- ≡ *Schistochila a.* (Hook.) Trev. 1877.
- G. balfouriana* (Hook. f. et Tayl.) Gott. et al., Synop. Hepat.: 622. 1846 (*Jungermannia b.* Hook. f. et Tayl. 1844). ≡ *Schistochila b.* (Hook. f. et Tayl.) Steph. 1909.
- G. beccariana* De Not., Memorie Real. Accad. Sci. Torino ser. 2, 28: 9. 1874. ≡ *Schistochila b.* (De Not.) Trev. 1877.
- G. berterioana* (Hook.) Nees in Gott. et al., Synop. Hepat.: 14. 1844 (*Jungermannia b.* Hook. 1829).
- ≡ *Schistochila b.* (Hook.) Steph. 1909.
- G. bicolor* Col., Trans. Proc. New Zealand Inst. 18: 240. 1886. "seems to be *Schistochila* repleta" (Hook. f. et Tayl. 1844) Steph. 1909. (Hodgson. 1941, p. 194).
- G. blumii* (Nees) Nees in Gott. et al., Synop. Hepat.: 19. 1844 (*Jungermannia b.* Nees 1823). ≡ *Schistochila b.* (Nees) Trev. 1877.
- G. carnosa* Mitt., Journ. Linn. Soc. Bot. (London) 15: 72. 1876. ≡ *Pachyschistochila c.* (Mitt.) Schust. et Engel 1982.
- G. chlorophylla* Col., Trans. Proc. New Zealand Inst. 18: 240. 1886. ≡ *Schistochila ciliata* (Mitt. 1854) Steph. 1909. (Stephani. 1892, p. 274; Hodgson. 1941, p. 188; Hamlin. 1972, pp. 263, 333).
- G. ciliata* Mitt. in J. D. Hooker, Fl. Nov. Zel. 2: 151. 1854. ≡ *Schistochila c.* (Mitt.) Steph. 1909.

- G. ciliistipula* Col., Trans. Proc. New Zealand Inst. 19: 284. 1887. = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. marginata* (Col. 1886) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 185).
- G. clandestina* Col., Trans. Proc. New Zealand Inst. 22: 454. 1890. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274).
- Schistochilaster colensoanus* (Steph.) H. Miller, Phytologia 20: 318. 1970 ("colensoanum") (*Schistochila* c. Steph. 1909). = *Pachyschistochila* c. (Steph.) Schust. et Engel 1982.
- G. compacta* Col., Trans. Proc. New Zealand Inst. 16: 349. 1884. "seems to be *S*[*schistochila*] *colensoana* Steph." 1909 (Hodgson, 1941, p. 194; Hamlin, 1972, p. 264).
- G. compacta* Col. (non Col. 1884, nec Col. 1887, p. 285), Trans. Proc. New Zealand Inst. 19: 284. 1887. = *G. laciniosa* Col., Trans. Proc. New Zealand Inst. 21: 54. 1889. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184; Hamlin, 1972, pp. 264, 332).
- G. compacta* Col. (non Col. 1884, nec Col. 1887, p. 284), Trans. Proc. New Zealand Inst. 19: 285. 1887. = *G. gregaria* Col., Trans. Proc. New Zealand Inst. 21: 54. 1889. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184).
- = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909. (Hamlin, 1972, pp. 264, 332).
- G. dichotoma* Col., Trans. Proc. New Zealand Inst. 18: 284. 1886. = *Schistochila nobilis* (Hook. 1818) Trev. 1877. (Stephani, 1909, p. 89; Hamlin, 1972, pp. 264, 333).
- G. diplophylla* (Hook. f. et Tayl. 1844) Nees in Gott. et al., Synop. Hepat.: 624. 1846. = *Balantiopsis d.* (Hook. f. et Tayl.) Mitt. 1884.
- G. doriae* De Not., Memorie Real. Accad. Sci. Torino ser. 2, 28: 10. 1874. = *Schistochila d.* (De Not.) Trev. 1877.
- G. epiphyta* Col., Trans. Proc. New Zealand Inst. 21: 57. 1889. = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. marginata* (Col. 1886) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 185).
- G. erinacea* (Hook. f. et Tayl. 1844) Nees in Gott. et al., Synop. Hepat.: 624. 1846. = *Balantiopsis e.* (Hook. f. et Tayl.) Mitt. 1867.
- G. flavovirens* Col., Trans. Proc. New Zealand Inst. 20: 248. 1888 ("flavo-virens"). = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184).
- G. gayana* Gott., Ann. Sci. Nat., Bot. ser. 4, 8: 320. 1857. = *Schistochila g.* (Gott.) Evans 1898.
- G. glaucescens* (Hook.) Nees in Gott. et al., Synop. Hepat.: 20. 1844 (*Jungermannia g.* Hook. 1818). = *Schistochila g.* (Hook.) Evans 1905.
- G. gregaria* Col., Trans. Proc. New Zealand Inst. 21: 54. 1889. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184).
- = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909. (Hamlin, 1972, pp. 264, 332).
- G. guttata* Col., Trans. Proc. New Zealand Inst. 21: 53. 1889. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (Hodgson, 1941, pp. 184, 193).
- G. heterocolpos* Col., Trans. Proc. New Zealand Inst. 18: 239. 1886. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184).
- G. heterodonta* Col., Trans. Proc. New Zealand Inst. 21: 55. 1889. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909. (Hodgson, 1941, pp. 184, 193).
- G. hombroniana* Mont., Ann. Sci. Nat., Bot. ser. 2, 19: 243. 1843. = *Schistochila lehmanniana* (Lindenb. 1832) Carring. et Pears. 1888. (Gottsche et al., 1844, p. 20).
- G. jamesii* Aust., Bull. Torrey Bot. Club 6: 302. 1879. = *Schistochila laminigera* (Hook. f. et Tayl. 1844) Evans 1892. (Hässel de Menendez, 1975, p. 7).
- G. javanica* Nees in Gott. et al., Synop. Hepat.: 19. 1844. = *Schistochila sciurea* (Nees 1830) Schiffn. 1893. (Buch, 1939, p. 16).
- G. laciniosa* Col., Trans. Proc. New Zealand Inst. 21: 54. 1889. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184).
- G. laetevirens* Col., Trans. Proc. New Zealand Inst. 18: 238. 1886 ("laete-virens"). = *Schistochila unguicularis* (Hook. f. et Tayl. 1844) Steph. 1909. (Hodgson, 1941, pp. 185, 193).

- =*Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. marginata* (Col. 1886) Steph. 1909). (Stephani, 1892, p. 274).
- G. lamellata* (Hook.) Nees in Gott. et al., Synop. Hepat.: 20. 1844 (*Jungermannia l.* Hook. 1818) = *Schistochila l.* (Hook.) Evans 1892.
- G. laminigera* (Hook. f. et Tayl.) Gott. et al., Synop. Hepat.: 623. 1846 (*Jungermannia l.* Hook. f. et Tayl. 1844). = *Schistochila l.* (Hook. f. et Tayl.) Evans 1892.
- G. lehmanniana* (Lindenb.) Nees in Gott. et al., Synop. Hepat.: 20. 1844 (*Jungermannia l.* Lindenb. 1832). = *Schistochila l.* (Lindenb.) Carring. et Pears. 1888.
- G. leucophylla* Lehm. ex Gott. et al., Synop. Hepat.: 17. 1844. = *Pachyschistochila l.* (Lehm. ex Gott. et al.) Schust. et Engel 1982.
- G. longiciliata* Col., Trans. Proc. New Zealand Inst. 21: 54. 1889. = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. marginata* (Col. 1886) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 185).
- G. longiseta* Col., Trans. Proc. New Zealand Inst. 21: 54. 1889. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184).
- G. macroamphigastrea* Col., Trans. Proc. New Zealand Inst. 18: 238. 1886 (in Bonner, 1966 wrongly as "*macroamphigastriata*"). = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184).
- G. marginata* Col., Trans. Proc. New Zealand Inst. 18: 241. 1886. = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909. (Hodgson, 1941, pp. 185, 193).
- G. mitteniana* Col., Trans. Proc. New Zealand Inst. 21: 56. 1889. = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909. (Hodgson, 1941, pp. 185, 194).
- G. moniliformis* Col., Trans. Proc. New Zealand Inst. 21: 56. 1889. = *Schistochila appendiculata* (Hook. 1818) Trev. 1877. (Stephani, 1892, p. 274; Hodgson, 1941, p. 183).
- G. nitida* Col., Trans. Proc. New Zealand Inst. 18: 238. 1886. = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. marginata* (Col. 1886) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 185).
- G. nobilis* (Hook.) Nees in Gott. et al., Synop. Hepat.: 21. 1844 (*Jungermannia n.* Hook. 1818). = *Schistochila n.* (Hook.) Trev. 1877.
- G. pachyla* (Hook. f. et Tayl.) Gott. et al., Synop. Hepat.: 621. 1846 (*Jungermannia p.* Hook. f. et Tayl. 1844). = *Schistochila alata* (Lehm. 1829) Schiffn. 1893. (Hässel de Menendez, 1975, p. 22; Schuster and Engel, 1977, p. 405).
- G. pachyphylla* (Lehm.) Nees in Gott. et al., Synop. Hepat.: 19. 1844 (*Jungermannia p.* Lehm. 1834). = *Pachyschistochila p.* (Lehm.) Schust. et Engel 1982.
- G. pallescens* Col., Trans. Proc. New Zealand Inst. 18: 241. 1886. = *Schistochila repleta* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. heterodonta* (Col. 1889) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 184).
- G. parvula* Ångstr., Ofvers. Kongl. Vet.-Akad. Förhandl. 29(4): 9. 1872. = *Schistochila retlexa* (Mont. 1845) Steph. 1909. (Schuster and Engel, 1975, p. 250, 1977, p. 357).
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- G. reflexa* Mont., Ann. Sci. Nat., Bot. ser. 3. 4: 347. 1845. = *Schistochila r.* (Mont.) Steph. 1909.
- G. reinwardtii* (Nees) Nees in Gott. et al., Synop. Hepat.: 15. 1844 (*Jungermannia r.* Nees 1830). = *Schistochila r.* (Nees) Schiffn. 1898.
- G. repleta* (Hook. f. et Tayl.) Gott. et al., Synop. Hepat.: 622. 1846 (*Jungermannia r.* Hook. f. et Tayl. 1844). = *Schistochila r.* (Hook. f. et Tayl.) Steph. 1909.
- G. sciurea* (Nees) Sande Lac., Ann. Mus. Bot. Lugd. Bat. 1: 298. 1864 (*Jungermannia s.* Nees 1830). = *Schistochila s.* (Nees) Schiffn. 1893.
- G. simplex* Col., Trans. Proc. New Zealand Inst. 18: 242. 1886. = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. marginata* (Col. 1886) Steph. 1909). (Stephani, 1892, p. 274; Hamlin, 1972, pp. 265, 332).
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- G. splachnophylla* (Hook. f. et Tayl.) Gott. et al., Synop. Hepat.: 621. 1846 (*Jungermannia s.* Hook. f. et Tayl. 1844). = *Pachyschistochila s.* (Hook. f. et Tayl.) Schust. et Engel 1982.

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- G. trichotoma* Col., Trans. Proc. New Zealand Inst. 18: 240. 1886. = *Schistochila balfouriana* (Hook. f. et Tayl. 1844) Steph. 1909 (= *S. marginata* (Col. 1886) Steph. 1909). (Stephani, 1892, p. 274; Hodgson, 1941, p. 185).
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