

A CATALOGUE OF THE BRYOPHYTES  
OF THE GUIANAS. I.  
HEPATICAE AND ANTHOCEROTAE<sup>1</sup>

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**ABSTRACT.** This catalogue provides an annotated listing of the liverworts and hornworts from the Guianas (Guyana, Surinam, French Guiana), based on the literature and on new data that have become available in the framework of the "Flora of the Guianas" project. In total 375 species in 93 genera are recorded, including more than 100 species and 28 genera new to the Guianas. A list of synonyms (including 30 new ones), a systematic arrangement of the genera and families, and an index to the collectors are also given.

INTRODUCTION

The Guianas region is situated between 1°15'–8° North and 57°10'–66°28' West, and comprises the countries French Guiana (a French department), Surinam (formerly Dutch Guiana) and Guyana (formerly British Guiana). The latter two are now independent countries. The region is physiographically divided into a coastal plain, covered by swamps, savannas, forest and cultivated land, and a vast, hilly interior covered largely by forest (Granville 1988). In the western portion of the region towards the Venezuelan border, table mountains of the Roraima sandstone formation averaging 1000–1200 m in altitude dominate the landscape. These mountains are part of the Guayana Highlands, an archaic mountain range extending from Surinam (Tafelberg) westwards to Colombia with major peaks located in Venezuela. Within the territory of the Guianas only one peak reaches above 2000 m: Mt. Roraima (2750 m), located at the intersection of the boundary lines of Venezuela, Brazil and Guyana. This is the only mountain in the Guianas which harbours a well-developed montane flora.

The liverwort flora of the Guianas has been little studied. For French Guiana there are the classical papers by Montagne (1835, 1841, 1851, 1855) on the Leprieur collections, and species lists by Arnell (1959) and Onraedt and Cremers (1980). The

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first paper on Surinam liverworts was by Lindenberg and Gottsche (1851) on the Kegel collections, although earlier records from Surinam appeared in the *Synopsis Hepaticarum* (Gottsche et al. 1844–47) and other works. More recent titles on Surinam are the papers by Jovet-Ast (1957) and by Florschütz-de Waard and Bekker (1987). Probably poorest known is the liverwort flora of Guyana. Relevant are the species list by Graham (1933) and the paper by Richards (1954) on the bryophyte communities of Moraballi Creek. Some earlier records for Guyana are in the *Synopsis Hepaticarum* (Gottsche et al. l.c.) and the *Species Hepaticarum* (Stephani 1898–1924). A considerable number of species new to Guyana and to the region of the Guianas as a whole are being published by Gradstein & Florschütz-de Waard (in prep.) in their paper on the bryophytes of Mt. Roraima.

This catalogue of the liverworts and hornworts of the Guianas is based on literature as well as on new, previously unpublished data. An important source of information was the material gathered recently in the framework of the “Flora of the Guianas” project by G. Cremers (Cayenne), J. Bekker, H. J. Cornelissen and H. ter Steege, D. Montfoort and R. Ek and the first author (Utrecht) and others. In total 375 species in 93 genera are listed, including more than 100 species and 28 genera new to the Guianas. The actual number of species may be lower, however, as a considerable number of records are old and may be species concepts are often problematical, especially in *Bazzania*, *Frullania*, *Lejeunea*, *Metzgeria*, *Plagiochila*, *Radula*, *Ceratolejeunea*, *Prionolejeunea* and *Taxilejeunea*. The number of species recorded for these groups is probably too large. On the other hand, it may be expected that future explorations will yield species not yet known from the area. It is therefore estimated that the actual number of species of Hepaticae and Anthocerotae existing in the Guianas will be close to 300.

The following records are excluded from this catalogue:

1. Some species recorded from Surinam by Stephani based on Suringar collections from “Guiana batava”: *Bazzania hookeri* (Lindenb.) Trev., *Calypogeia suringarii* Steph. (type), *Frullania involuta* Hampe ex Steph., *Metzgeria subnuda* Steph. (type), *Plagiochila batava* Steph. (type), *P. suringarii* Steph. (type), *Rectolejeunea suringarii* Steph. (type), *Taxilejeunea suringarii* Steph. (type), *Tylimanthus subtilis* Steph. (type). Our examination of the labels (herb. G) revealed that these collections originated from the islands Saba and St. Eustatius, Netherlands Antilles.

2. Species recorded from Mt. Roraima, “British Guiana” by Stephani (1901), based on the McConnell and Quelch collections. As was pointed out by Steyermark (1981) and Gradstein (1986) specimens collected on Mt. Roraima before 1970 should be from Venezuelan territory.

Nomenclature follows the *Index Hepaticarum* (Bonner 1962–1987) and the latest taxonomic works. Some new synonymy and typification is proposed based on the first author’s examination of types recorded from the region.

It goes without saying that this catalogue is likely to contain errors and omissions, even more so as the literature on the subject is extremely scattered. Additional refer-

ences and corrections brought to our attention shall be very much appreciated.

#### INDEX OF LIVERWORT COLLECTORS

The collector's index was compiled on the basis of published and unpublished data of specimen labels. Useful additional information on liverwort collectors of the Guianas was obtained from Florschütz (1964) and Hoff et al. (1987). Many old collections exist without indication of the collector. Often these collections originated from personal herbaria and are then cited as "ex herb. Hampe" etc. Sometimes collectors and herbarium owners are confused. To avoid such confusion a listing is provided of the main personal herbaria from which collections without collector data have originated (per country):

**French Guiana:** ex herb. E. Bescherelle, A. L. A. Féé, R. K. Greville, G. E. L. Hampe, W. J. Hooker, J. B. Jack, W. Mitten, J. P. F. C. Montagne, M. Onraedt, J. E. G. N. Paris, Rech, H. G. L. Reichenbach, F. Stephani, Th. Taylor, M. H. I. Thériot.

**Guyana:** P. E. Boissier, H. C. Funck ('Funckius'), K. I. E. Ritter von Goebel, W. Gourlie, R. K. Greville, W. J. Hooker, J. G. C. Lehmann (Guyana s.l.), E. Levier (Guyana s.l.), J. B. W. Lindenberg (Guyana s.l.), W. Mitten (Guianas), C. G. Nees von Esenbeck (Guyana s.l.), E. F. Noel, F. Stephani, Th. Taylor, F. Weber (Guyana s.l.).

**Surinam:** R. B. van den Bosch, F. Dozy, J. C. G. U. G. G. A. E. F. von Flotow ('Flotov'), M. H. Fulford, H. C. Funck ('Funckius'), C. M. Gottsche, Gunth(er?), G. E. L. Hampe, W. J. Hooker, G. Kunze, J. G. C. Lehmann, J. B. W. Lindenberg, F. A. W. Miquel, J. H. Molkenboer, K. (Carl' of Freiburg) Müller, C. G. Nees von Esenbeck, J. E. G. N. Paris, H. G. L. Reichenbach, C. M. van der Sande-Lacoste, F. Stephani, Th. Taylor, W. H. de Vriese, Wilms.

Collectors	Year(s)	Country
Aptroot, A.	1985	French Guiana, Guyana
Barbottin, J.	1965	French Guiana
Bartlett, A. W.	1903-08	Guyana
Beek Vollenhoven, . . . van	1839, 1854?	Surinam
Bekker, J. M.	1976, 1981, 1986	French Guiana, Surinam
Benoist, R.	1913-14	French Guiana
Bos(ch)wezen (=BW, superseded by LBB)		Surinam
Breutel, J. C.	1840-41	Surinam
Broadway, W. E.	1921	French Guiana
Campbell, W. H.	before 1846	Guyana
Cornelissen, J. H. C. & H. ter Steege	1985	Guyana
Cremers, G. A.	1976-88	French Guiana
Curie (Currie)	1835-36	Surinam
Daniels, A. H. G. & F. P. Jonker	1959	Surinam
Degelius, G. B. F.	1958	French Guiana
De Granville, J. J.	1970-88	French Guiana
Doeve	1950	Surinam
Donselaar, J. van	1964-65	Surinam
Donselaar, J. van & E. M. C. Helstone	1964	Surinam

Collectors	Year(s)	Country
Poncy, O.	1986	French Guiana
Pulle, A. A.	1903	Surinam
Quelch, J. J.	1894-98	Guyana
Rey	1905-09	French Guiana
Richard, L. C. M.	1781-89	French Guiana
Richards, P. W.	1929	Guyana
Rypkema, D.	1961	Surinam
Sagot, P. A.	1854-59	French Guiana
Schulz, J. P.	1956-63	Surinam
Sieber, F. W.	1821-26	French Guiana
Skog, L. E. et al.	1985	French Guiana
Slageren, M. W. S. J. M. van	1981	Surinam
Smith, A. C.	1937	Guyana
Splitgerber, F. L.	1837-38	Surinam
Suringar, W. F. R.	1884-85	Surinam
Sypesteyn, C. A. van	1846-50, 1852-55, (1873-84)	Surinam
Teunissen, P. A. & J. T. Wildschut	1967	Surinam
Tutin, T. G.	ca. 1933	Guyana, Surinam
Villiers, J. F.	1987	French Guiana
Vollenhove, van (see Beek Vollenhoven)		
Weigelt, Chr.	1827-28	Surinam
Wessels Boer, J. G.	1963	Surinam
Wullschlaegel, H. R.	1849-55	Surinam

#### ALPHABETICAL LIST OF SPECIES

Included are published records as well as previously unpublished records based on material present in the herbarium Utrecht (U), CAY, PC, G etc. Unpublished records are included (by citation of a selected herbarium specimen, in italics) when they represent new country records; their identifications have been verified. Cited herbarium specimens are in U unless otherwise indicated. Published records are mostly unverified. Species new to all of the Guianas are marked by an asterisk. Records of unknown origin are cited under "S. l." (= sine loco).

#### Literature abbreviations:

A = Arnell 1959

FB = Florschütz-de Waard & Bekker 1987

G = Graham 1933

GF = Gradstein & Florschütz-de Waard in prep.

JA = Jovet-Ast 1957

LG = Lindenberg & Gottsche 1851

OC = Onraedt & Cremers 1980

R = Richards 1954

Syn. Hep. = Gottsche, Lindenberg & Nees 1844-47 (*Synopsis Hepaticarum*)

- \**Acanthocoleus aberrans* (Lindenb. & Gott.) Kruijt – French Guiana: *Montfoort* 12.
- Acrolejeunea emergens* (Mitt.) Steph. – Surinam: Gradstein 1975 – French Guiana: Stephani 1912–17 as *Ptychocoleus grossispicus* sp. nov.; Gradstein 1975.
- A. torulosa* (Lehm. & Lindenb.) Schiffn. – S.l.: Lehmann 1834 as *Jungermannia torulosa* sp. nov.; Gradstein 1975 – Guyana, Surinam, French Guiana: Gradstein 1975; FB.
- A. torulosa* var. *obtusa* Gradst. – Guyana: Gradstein 1975, var. nov.
- \**Alobiella* sp. – Guyana: GF.
- \**Anastrophyllum plagiochiloides* Inoue & Gradst. – Guyana: Inoue & Gradstein 1989; GF.
- \**Aneura pinguis* (L.) Dum. – French Guiana: Cornelissen C340 (det. J. Meenks).
- \**A. sp.* – Guyana: GF.
- Anomoclada mucosa* Spruce – Guyana: GF – Surinam: FB.
- Anoplolejeunea conferta* (Meissn.) Evans – Guyana: G; GF – French Guiana: A.
- \**Aphanolejeunea diaphana* (Evans) Schust. – Guyana: Cornelissen C706 – French Guiana: OC as *Cololejeunea diaphana*.
- \**A. gracilis* Jovet-Ast – French Guiana: *Bekker s.n.*
- A. sicaefolia* (Gott. ex Steph.) Evans – Surinam: FB.
- Arachniopsis diacantha* (Mont.) Howe – Guyana: GF – Surinam: FB – French Guiana: Cremers 6249, 6269.
- \**A. pecten* Spruce – Guyana: GF – French Guiana: *Gradstein* 5825.
- Archilejeunea auberiana* (Mont.) Evans – Surinam: LG as *Lejeunea auberiana*; Stephani 1890 as *L. auberiana*; Evans 1908 – French Guiana: *Gradstein* 6085, 6185.
- \**A. crispitipula* (Spruce) Steph. – Guyana: *Robinson* 85-0063.
- A. fuscescens* (Hampe ex Lehm.) Fulf. (= *Marchesinia cruegeri* Steph., fide E. P. Geissler msc.) – Guyana: G, R as *A. spruceana*; Gradstein & Buskes 1985 as *A. juliformis*; GF – Surinam: Stephani 1912–17 as *Marchesinia cruegeri*; Gradstein & Buskes 1985, FB as *A. juliformis* – French Guiana: Gradstein & Buskes 1985 as *A. juliformis*.
- A. parviflora* (Nees) Schiffn. – Guyana: Grädstein & Buskes 1985; GF – Surinam: Syn. Hep. as *Lejeunea leprieurii* var. *curiae* var. nov.; Gradstein & Buskes 1985; FB – French Guiana: Montagne 1835 as *Jungermannia leprieurii* sp. nov.; Stephani 1909–12 as *A. parviloba* sp. nov.; Gradstein & Buskes 1985.
- Bazzania acuminata* (Lindenb. & Gott.) Trevis. – Surinam: JA.
- B. bidens* (Nees) Trevis. – French Guiana: Montagne 1835 as *Jungermannia serpentina* and *J. tridens* var.; Montagne 1840 as *Herpetium stoloniferum* var. *bidens* var. nov.; Fulford 1963; OC.
- B. breutelianiana* (Lindenb. & Gott.) Trevis. – Guyana: Fulford 1963 – Surinam: JA – French Guiana: Fulford 1963.

- \**B. cuneistipula* (Gott. & Lindenb.) Trevis. – Guyana: Cornelissen 707.
- B. glaziovii* (Gott.) Fulf. – Guyana: Fulford 1963.
- \**B. gracilis* (Hampe & Gott.) Steph. – Guyana: GF.
- B. hookeri* (Lindenb.) Trevis. – Guyana: GF – French Guiana: OC.
- B. longa* Trevis. – Surinam: JA.
- B. longistipula* (Lindenb.) Trevis. (= *Bazzania tricuspidata* (Steph.) Fulf.; *Mastigobryum tricuspidatum* Steph. syn. nov.) – Guyana: Stephani 1906–09 as *Mastigobryum tricuspidatum* sp. nov. (holotype: “Guiana gallica”, Quelch & McConnell s.n., G nr. 22876); Fulford 1963 as *B. tricuspidata*; GF – Surinam: JA.

The type material of *B. tricuspidata* (Steph.) Fulf. consists of a few etiolated stems with rather small and widely spatiate underleaves. As all other other characters fit *B. longistipula* we consider this to be a poorly developed form of the latter species. The material was collected by Quelch & McConnell and therefore cannot have originated from French Guiana. As the McConnell & Quelch bryophyte collections are usually from the Venezuelan side of Mt. Roraima, a Guyana origin of the specimen is doubtfully correct.

- B. robusta* Spruce – Guyana: Fulford 1963.
- B. roraimensis* (Steph.) Fulf. – Guyana: GF – Surinam: JA as *B. platystipula*.
- B. stolonifera* (Sw.) Trevis. – Guyana: GF – Surinam: JA – French Guiana: Montagne 1840 as *Herpetium stoloniferum* var. *irregularare* var. nov.; Fulford 1946.
- B. teretiuscula* (Lindenb. & Gott.) Trevis. – Surinam: JA.
- Brachiolejeunea phyllorrhiza* (Nees) Kruijt & Gradst. – Surinam: Stephani 1909–12 as *Archilejeunea conduplicata* sp. nov.; Kruijt & Gradstein 1986.
- Bryopteris diffusa* (Sw.) Nees – Surinam: Gradstein et al. 1985 – French Guiana: OC.
- B. filicina* (Sw.) Nees – French Guiana: Montagne 1840 as *Frullania filicina*.
- B. fruticulosa* Tayl. – Guyana: Stotler & Crandall-Stotler 1974.
- B. trinitensis* (Lehm. & Lindenb.) Lehm. & Lindenb. – Guyana: Stotler & Crandall-Stotler 1974 – Surinam: Stotler & Crandall-Stotler 1974; Gradstein et al. 1985 – French Guiana: OC.
- \**Calypogeia caespitosa* (Spruce) Steph. – Guyana: GF.
- \**C. cellulosa* (Spreng.) Steph. – Guyana: GF.
- \**C. crenulata* Bischler – Guyana: GF.
- \**C. laxa* Gott. & Lindenb. – Guyana: GF – Surinam: Lindeman et al. 838a.
- C. lechleri* (Steph.) Steph. – Guyana: GF – Surinam: Bischler 1962 – French Guiana: Gradstein 6213.
- C. lechleri* var. *densifolia* (Steph.) Bischler – Surinam: Bischler 1962.
- C. miquelii* Mont. (? = *C. amazonica* (Spruce) Steph.: types not seen) – Guyana: GF –

Surinam: Syn. Hep., sp. nov.; Bischler 1962; Fulford 1968; FB – French Guiana: Montagne 1855; OC.

\**C. peruviana* Nees & Mont. – Guyana: GF.

\**C. venezuelana* Fulf. – Guyana: GF.

*Caudalejeunea lehmanniana* (Gott.) Evans – Guyana: Cornelissen C563 – Surinam: FB.

\**Cephalozia crassifolia* (Lindenb. & Gott.) Fulf. – Guyana: GF.

*Ceratolejeunea amazonica* (Steph.) Steph. – Surinam: Stephani 1890 as *Lejeunea amazonica* sp. nov.; Bonner 1953.

*C. anomala* (Lindenb. & Gott.) Steph. – Surinam: LG as *Lejeunea anomala* sp. nov.; Stephani 1912–17; Zwickel 1933 as *Euosmolejeunea anomala*; Bonner 1953.

*C. brasiliensis* (Gott.) Schiffn. – French Guiana: A.

\**C. confusa* Schust. – Guyana: Cornelissen C564 – French Guiana: Montfoort & Ek 447, 448.

*C. cornuta* (Lindenb.) Schiffn. – Guyana: Fulford 1945 – Surinam: LG as *Lejeunea ceratantha* and *L. cornuta*; FB – French Guiana: Montagne 1840 as *L. ceratantha* sp. nov.; A; OC.

*C. cubensis* (Mont.) Schiffn. – Surinam: Bonner 1953 – French Guiana: OC.

*C. desciscens* (Sande Lac.) Schiffn. – Guyana: Fulford 1945 – Surinam: Sande Lacoste 1856 as *Lejeunea desciscens* sp. nov.; JA.

\**C. flagelliformis* (Steph.) Fulf. – French Guiana: Cornelissen C328.

*C. grandibracteata* Fulf. – French Guiana: OC.

*C. guianensis* (Nees & Mont.) Steph. – Surinam: Syn. Hep.; LG; FB – French Guiana: Montagne 1840 as *Lejeunea guianensis* sp. nov.; OC.

*C. involvens* (Nees & Mont.) Steph. – Guyana: Bonner 1953 – Surinam: LG as *Lejeunea involvens*; Bonner 1953 – French Guiana: Montagne 1840 as *Lejeunea involvens* sp. nov.; Bonner 1953.

*C. kegelii* (Lindenb. & Gott.) Steph. – Surinam; LG as *Lejeunea kegelii* sp. nov.; Bonner 1953.

*C. longicornis* (Gott.) Steph. – French Guiana: A.

*C. maritima* (Spruce) Steph. – Guyana: Cornelissen C565 – Surinam: JA; FB – French Guiana: OC.

*C. megalophysa* (Spruce) Steph. – Guyana: Fulford 1945 – Surinam: JA – French Guiana: Bekker 2250 p.p.

*C. parisii* Steph. – French Guiana: Bonner 1953; A.

*C. patentissima* (Hampe & Gott.) Evans – Guyana: Cornelissen C566 – Surinam: FB – French Guiana: Bekker 2250 p.p.

*C. patulistipa* Steph. – Surinam: Stephani 1895 – French Guiana: A.

*C. plumula* (Spruce) Steph. – Guyana: G; R – Surinam: JA; FB – French Guiana: A; OC.

- C. remotistipula* Steph. – Surinam: Stephani 1912–17 sp. nov.; Bonner 1953.
- C. rufo-pellucida* (Spruce) Steph. – French Guiana: A.
- C. spinosa* (Gott.) Steph. – Surinam: Bonner 1953.
- C. splitgerberiana* (Mont.) Steph. – Surinam: Montagne 1841 as *Lejeunea splitgerberiana* sp. nov.; Bonner 1953 – French Guiana: A.
- C. variabilis* (Lindenb.) Schiffn. – French Guiana: OC.
- Cheilolejeunea adnata* (Kunze) Grolle – Guyana: R as *C. decidua* – Surinam: JA as *C. decidua*; FB – French Guiana: Montagne 1855 as *Lejeunea adnata*; Cornelissen C274.
- C. clausa* (Nees & Mont.) Schust. – Surinam: Syn. Hep. as *Lejeunea opaca* sp. nov.; Schuster 1980 – French Guiana: Montagne 1840 as *Lejeunea clausa* sp. nov.; A.
- C. discoidea* (Lehm. & Lindenb.) Kachroo & Schust. (= *Cheilolejeunea brunella* Steph. syn. nov.; *Cheilolejeunea myriantha* (Nees & Mont.) Schust. syn. nov., fide R. Grolle in litt.). – French Guiana: Syn. Hep. as *Lejeunea myriantha* sp. nov. (lectotype (nov., fide R. Grolle): PC-Mont.; isolectotypes in BM, G-18985, JE, NY, W, YU); Stephani 1895a as *C. brunella* sp. nov. (holotype: *Leprieur s.n.*, herb. G nr. 23563).  
The type material of *C. brunella* consists of a tiny fragment of a plant with gynoecia and a few more scraps; whether the material is monoic cannot be ascertained, but in all other respects the material fits *C. discoidea*.
- C. inflexa* (Hampe ex Lehm. & Lindenb.) Grolle – Surinam: Syn. Hep. as *Lejeunea inflexa*; Grolle 1979 – French Guiana: Grolle 1979; OC as *Trachylejeunea inflexa*.
- C. longiflora* (Tayl.) Schust. – French Guiana: A as *Euosmolejeunea longiflora*.
- C. rigidula* (Nees & Mont.) Schust. (= *Euosmolejeunea incerta* Steph. syn. nov.; *Euosmolejeunea neglecta* Gott. ex Steph. syn. nov.; *Lejeunea brunella* Steph. syn. nov.). – Guyana: G, R as *Euosmolejeunea duriuscula* – Surinam: Syn. Hep. as *Lejeunea duriuscula* sp. nov.; Stephani 1896 as *Euosmolejeunea incerta* sp. nov. (holotype: *Wullschlaegel* 445, herb. G nr. 23566); Stephani 1912–17 as *Lejeunea brunella* sp. nov. (holotype: Splitgerber s.n., herb. G nr. 23565); FB – French Guiana: Montagne 1840 as *Lejeunea rigidula*; Syn. Hep. as *Lejeunea flexuosa* sp. nov.; Stephani 1912–17 as *Euosmolejeunea neglecta* sp. nov. (syntype: Trinidad, sine coll., herb. G nr. 23564); A as *C. duriuscula*.  
*Euosmolejeunea neglecta* Gott. ex Steph. is reduced to synonymy based on examination of the syntype coll. from Trinidad and the original description, both of which fit *C. rigidula*. The other syntype collection, from French Guiana, could not be traced in the Stephani herbarium (G).
- C. trifaria* (Reinw. et al.) Mizut. (= *Lejeunea diaphana* Steph. syn. nov.; *Lejeunea surinamensis* Steph. syn. nov.). – Guyana: Stephani 1890 as *Lejeunea trifaria* – Surinam: LG as *Lejeunea amoena* var. *intermedia* var. nov.; Stephani 1912–17 as *Lejeunea diaphana* sp. nov. (holotype: *Suringar* s.n., ex herb. Leiden 422, herb. G nr. 23567); Stephani 1912–17 as *Lejeunea surinamensis* sp. nov. (holotype: *Suringar* s.n., herb. G nr. 23568); JA as *Euosmolejeunea trifaria*; FB – French Guiana: Montagne 1835 as *Jungermannia sordida*; Syn. Hep. as *Lejeunea amoena* sp. nov.; OC.

- Cololejeunea cardiocarpa*** (Mont.) Evans, Mem. Torrey Bot. Club **8**: 172, 1902 – French Guiana: Montagne 1855 as *Lejeunea cardiocarpa*; A as *Leptocolea cardiocarpa*; OC.
- C. kegelii*** Steph. – Surinam: Stephani 1895 sp. nov.; Stephani 1912–17 as *Physocolea kegelii*.
- \****C. platyneura*** (Spruce) S. Arnell – Surinam: Bekker 1180a (det. P. Tixier) – French Guiana: Tixier msc.
- \****C. sigmoidea*** Tixier – French Guiana: Tixier msc.
- C. obliqua*** (Nees & Mont.) Schiffn., Bot. Jahrb. Syst. **23**: 568, 1897 (= *C. scabriflora* (Gott.) Schiffn., fide Tixier 1985) – Surinam: JA as *Leptocolea scabriflora* – French Guiana: Montagne 1843 as *Lejeunea obliqua* sp. nov.; A as *C. mosenii* (synonymy according to Tixier msc.).
- C. subcardiocarpa*** Tixier – French Guiana: Tixier 1980 sp. nov.
- \****Colura clavigera*** Gott. ex Jov.-Ast – Guyana, Surinam, French Guiana: Jovet-Ast msc.
- \****C. cylindrica*** Herz. – Guyana, Surinam, French Guiana: Jovet-Ast msc.
- C. greig-smithii*** Jov.-Ast – Surinam: JA – French Guiana: A; Jovet-Ast msc.
- \****C. lyrata*** Steph. – Guyana: Jovet-Ast msc.; GF.
- C. rhynchophora*** Jov.-Ast – Guyana: Jovet-Ast msc. – Surinam: JA.
- C. tenuicornis*** (Evans) Steph. – French Guiana: OC; Jovet-Ast msc.
- C. tortifolia*** (Nees & Mont.) Trevis. – Guyana, Surinam: Jovet-Ast 1953; JA – French Guiana: Montagne 1843 as *Lejeunea tortifolia* sp. nov.; A; OC.
- Crossotolejeunea boryana*** (Mont.) Schiffn. – Guyana: R – Surinam: Montagne 1838 as *Lejeunea funciana* sp. nov.; Lehmann 1838 as *Lejeunea surinamensis* sp. nov.; Gottsche 1872; FB – French Guiana: OC.
- C. crenata*** (Nees & Mont.) Lacouture – Surinam: LG as *Lejeunea crenata*; JA – French Guiana: Montagne 1838 as *L. crenata* sp. nov.; OC.
- C. paucispina*** (Spruce) Steph. – Surinam: FB.
- Cyclolejeunea accedens*** (Gott.) Evans – French Guiana: A.
- C. chitonia*** (Tayl.) Evans – Guyana: Lehmann 1844 as *Lejeunea chitonia* Tayl. sp. nov. (“clitonia” orth. err.); Syn. Hep. as *L. chitonia*; Evans 1904 – Surinam: Bekker s.n. – French Guiana: Onraedt 1988.
- C. convexistipa*** (Lehm. & Lindenb.) Evans – Guyana: G; Grolle 1984 – Surinam: Montagne 1841 as *Phragmicomia surinamensis* sp. nov.; LG as *Lejeunea convexistipa* and *L. surinamensis*; JA – French Guiana: Bescherelle & Spruce 1889 as *Lejeunea scalpellifolia* sp. nov., OC; Onraedt 1988.
- C. foliorum*** (Nees) Grolle – French Guiana: OC; Onraedt 1988 as *C. angulata*.
- C. luteola*** (Spruce) Grolle – Guyana, Surinam, French Guiana: Grolle 1984; FB; Onraedt 1988.

**C. peruviana** (Lehm. & Lindenb.) Evans – S.l.: Stephani 1912–17 as *C. mimula* – Surinam: JA – French Guiana: Syn. Hep. as *Lejeunea peruviana* and *L. foliorum*; Taylor 1846 as *L. adglutinata* sp. nov.

\****Cylindrocolea planifolia*** (Steph.) Schust. – Guyana: Cornelissen C562 – French Guiana: Montfoort s.n.

***Cyrtolejeunea holostipa*** (Spruce) Evans (= *Marchesinia pseudocucullata* Steph., fide E.P. Geissler msc.) – Guyana: Cornelissen C567 – Surinam: Stephani 1912–17 as *Marchesinia pseudocucullata* sp. nov.; FB – French Guiana: Cornelissen C246.

***Dendroceros breutelii*** Nees var. *surinamensis* Lindenb. & Gott. – Surinam: LG var. nov.

\****D. crispus*** (Sw.) Nees – Guyana: GF – Surinam: Gradstein 4660 – French Guiana: Gradstein 6145.

\****Dicranolejeunea axillaris*** (Nees & Mont.) Schiffn. – Guyana: GF.

***Diplasiolejeunea cavifolia*** Steph., Bot. Jahrb. Syst. 20: 318, 1895 (= *D. brachyclada* Evans) – Guyana: Cornelissen C568 – Surinam: JA – French Guiana: OC.

\****D. cobrensis*** Gott. ex Steph. – Guyana: Cornelissen C700.

***D. galloana*** Jov.-Ast – Surinam: JA.

***D. pellucida*** (Meissn. ex Spreng.) Schiffn. – Guyana: R – Surinam: JA – French Guiana: Montagne 1843 as *Lejeunea ocellulata* sp. nov.; Syn. Hep as *L. pellucida*; A; OC.

***D. rudolphiana*** Steph. – Guyana: Cornelissen C569 – Surinam: Schuster 1980 – French Guiana: Montfoort & Ek 454.

***D. unidentata*** (Lehm. & Lindenb.) Schiffn., Bot. Jahrb. Syst. 23: 583, 1897 – S.l.: Stephani 1912–17 – French Guiana: A.

***D. unidentata*** var. *bidentula* Lindenb. & Gott. – Surinam: LG.

***D. unidentata*** var. *minor* Lindenb. & Gott. – Surinam: LG.

***D. sp.*** – Surinam: FB – French Guiana: Montagne 1855 as *Lejeunea hyalino-marginata*; Grolle 1981.

***Drepanolejeunea araucariae*** Steph. – Surinam: JA – French Guiana: A; Bischler 1964.

***D. bidens*** Steph. – French Guiana: Syn. Hep. as *Lejeunea hamatifolia* var. *gracillima* var. nov.; Bischler et al. 1963 as *Lejeunea cucullata* var. *cuspidata* nom. inval.; Bischler 1964: 107, 165.

***D. bispinulosa*** Evans – Surinam: JA.

***D. crucianella*** (Tayl.) Evans – Guyana: Taylor 1846 as *Lejeunea crucianella* sp. nov.; Bischler 1964 – Surinam: Stephani 1912–17 as *D. trifida* sp. nov.; Bischler 1964 – French Guiana: A; Bischler 1964; OC as *D. trifida*.

***D. fragilis*** Bischler – Guyana: Cornelissen C570 – Surinam: Bischler 1964; FB – French Guiana: OC.

***D. inchoata*** (Meissn.) Steph. – Surinam: JA; Bischler 1964 – French Guiana: Bischler 1964;

OC.

*D. integribracteata* Bischler – French Guiana: OC.

*D. lichenicola* (Spruce) Steph. – French Guiana: OC.

*D. mosenii* (Steph.) Bischler – Surinam: Bischler 1967 – French Guiana: OC.

*D. orthophylla* (Nees & Mont.) Bischler – Surinam: LG, JA as *Lejeunea stenophylla*; Bischler 1967 – French Guiana: Montagne 1843 as *Lejeunea orthophylla* sp. nov.; A as *Leptolejeunea orthophylla* and *L. serratifolia*; Bischler 1969: 335.

*Echinocolea asperrima* (Spruce) Schust. – Surinam: FB – French Guiana: OC.

\**Fossombronia* sp. – Guyana: GF.

*Frullania apiculata* (Reinw. et al.) Dum. (= *F. paraensis* Steph. syn. nov.; *F. pulcherrima* Steph. syn. nov.) – Guyana: GF – SURINAM: Stephani 1909–12 as *F. paraensis* sp. nov. (lectotype (Bonner 1965): Brazil, Para, Spruce s.n. herb. G nr. 23572); Stephani 1909–12 as *F. pulcherrima* sp. nov. (holotype: Junhi, flumen Para, Suringar s.n., herb. G nr. 13658) – French Guiana: Montagne 1840 as *F. atrata* (Sw.) Nees (fide specimen in herb. PC-Mont.: Leprieur 270); Stephani 1909–12 as *F. duricaulis* Steph. (fide specimen in herb. G nr. 23573: Cayenne, Leprieur s.n.); OC.

*F. apiculata* var. *guianensis* Lindenb. & Gott. – Surinam: LG var. nov.

*F. arecae* (Spreng.) Gott. – French Guiana: Montagne 1840 as *F. obscura*; Montagne 1855 as *F. hians* and *F. ecklonii*; OC.

\**F. bicornistipula* Steph. – Guyana: GF.

\**F. brasiliensis* Raddi – Guyana: GF.

*F. breuteliania* Gott. – French Guiana: A as *F. diffusa* Steph. (synonymy according to Stotler 1969).

*F. degelii* S. Arn. – French Guiana: A sp. nov.

*F. ericoides* (Nees) Mont. (= *F. suringarii* Steph. ex Bonner nom. nud., syn. nov.) – SURINAM: LG as *F. squarrosa*; Bonner 1965 as *F. suringarii* (Paramaribo, Suringar s.n., herb. G nr. 23575) – French Guiana: Syn. Hep.; OC.

*F. exilis* Tayl. – GUYANA: Taylor 1846 sp. nov. – French Guiana: A.

*F. exilis* may be a synonym of *F. apiculata* (Reinw. et al.) Dum.

*F. gaudichaudii* (Nees & Mont.) Nees & Mont. – Guyana: Syn. Hep. as *F. taylori* sp. nov.; Stotler 1969.

*F. gibbosa* Nees (= *F. surinamensis* Steph. syn. nov.; *F. wulsschlaegeli* Steph. syn. nov.) – Guyana: GF – Surinam: Syn. Hep.; Stephani 1909–12 as *F. wulsschlaegeli* sp. nov. (holotype: Paramaribo, Wulsschlaegel 706, herb. G nr. 20980); Stephani 1909–12 as *F. surinamensis* sp. nov. (holotype: sine coll., herb. G nr. 23576); FB – French Guiana: Montagne 1840: Clark 1956.

\**F. kunzei* (Lehm. & Lindenb.) Lehm. & Lindenb. – Guyana: Cornelissen C571 – French Guiana: Montfoort & Ek 455.

*F. montagnei* Gott. – French Guiana: Syn. Hep. sp. nov.; Stotler 1969.

\**F. mucronata* (Lehm. & Lindenb.) Lehm. & Lindenb. – Guyana: GF – Surinam: *Bekker 1032.*

*F. neesii* Lindenb. – Surinam: FB – French Guiana: Montagne 1840 as *F. parasitica* sp. nov.; Syn. Hep. as *F. leprieurii* sp. nov.; Stotler 1969.

*F. nodulosa* (Reinw. et al.) Nees – Guyana: *Cornelissen C572* – Surinam: Syn. Hep. as *F. thuillieri* sp. nov.; Clark & Svhla 1948; FB – French Guiana: Montagne 1840 as *F. replicata*; A; OC.

*F. obcordata* (Lehm. & Lindenb.) Lehm. & Lindenb. – S.l.: Lehmann 1834 as *Jungermannia obcordata* sp. nov.; Clark & Svhla 1948a – Surinam: LG; FB – French Guiana: Montagne 1840 as *F. tamarisci* (fide specimen in herb. PC-Mont: *Leprieur 260*).

*F. obcordata* var. *armata* Lindenb. & Gott. (= *F. gymnotis* Nees & Mont. syn. nov.) – Guyana: GF – Surinam: LG var. nov.; JA, FB as *F. gymnotis* – French Guiana: Montagne 1843 as *F. gymnotis* sp. nov. (type: *Leprieur 360 & 366* (one packet), herb. PC-Mont.); Clark & Svhla 1948.

The var. *armata* and its synonym *F. gymnotis* Nees & Mont. differ from typical *F. obcordata* by the toothed female bracts.

*F. parasitica* Hampe ex Lehm. & Lindenb. – S.l.: Stephani 1909–12; Clark & Svhla 1948a – French Guiana: A.

*F. riojaneirensis* (Raddi) Ångstr. – Guyana: Syn. Hep. as *F. arietina* sp. nov.; GF – Surinam: Syn. Hep.; LG as *F. arietina* – French Guiana: *Montfoort & Ek 456.*

*F. serrata* Gott. – French Guiana: OC.

The record of this palaeotropical species needs reconfirmation.

*F. subtilissima* Lindenb. – French Guiana: Montagne 1840 as *F. atrata* var. *subtilissima* var. nov. (nom. nud.).

My study of the type of *F. subtilissima* in the Montagne herbarium (river Kau, *Leprieur 264* ("254", corr. Montagne 1855: 184), herb. PC-Mont.) reveals that this species belongs in the subgenus *Frullania*, where it seems most closely related to *F. ecuadorensis* Steph. as described by Stotler (1969). It differs from the latter by its upright lobules, underleaves bifid to 1/3 and the trigonous perianth with entire bracts. The treatment of *F. subtilissima* by Clark & Svhla (1958), which was apparently not based on examination of the type, is erroneous; their description and illustration seems to represent a misidentified species of the subgenus *Meteoriopsis*.

*Frullanoides corticalis* (Lehm. & Lindenb.) van Slag. – Guyana: van Slageren 1985 – Surinam: *Gradstein 6405, 6406* – French Guiana: Montagne 1840 as *F. leprieurii* sp. nov.; Stephani 1912–17 as *Brachiolejeunea surinamensis* sp. nov.; van Slageren 1985.

*F. densifolia* Raddi – S.l.: van Slageren 1985.

*F. liebmanniana* (Lindenb. & Gott.) van Slag. (= *F. tristis* (Steph.) van Slag. syn. nov.) – Surinam, French Guiana: van Slageren 1985.

Apparently the main difference between *F. liebmanniana* and *F. tristis* seems to be the

sex distribution (dioicous versus monoicous), other differences showing considerable overlap. I therefore prefer to treat these taxa as one single species. The dioicous forms (*F. liebmanniana* s. str.) are apparently rare and occur scattered throughout the neotropical portion of this widely distributed taxon.

\**Haesselia acuminata* Gradst. – Guyana: GF.

\**H. roraimensis* Grolle & Gradst. – Guyana: Grolle & Gradstein 1988; GF.

*Haplolejeunea cucullata* (Steph.) Grolle – Guyana: Cornelissen C573 – Surinam: FB.

*Harpalejeunea heterodonta* Evans – Guyana: G – French Guiana: Montfoort & Ek 457.

*H. oxyphylla* (Nees & Mont.) Steph. – Surinam: LG as *Lejeunea oxyphylla* – French Guiana: Montagne 1843 as *L. oxyphylla* sp. nov.; A.

*H. stricta* (Lindenb. & Gott.) Steph. – Guyana: Cornelissen C574 – Surinam: FB – French Guiana: Montfoort & Ek s.n.

\**H. uncinata* Steph. – Guyana: Cornelissen C575 – French Guiana: Montfoort & Ek 458.

*Herbertus divergens* (Steph.) Herz. – Guyana: GF – Surinam: Gradstein 4656, 4671 – French Guiana: OC as *H. juniperoides* (fide duplicate specimens from herb. CAY in herb. u); Gradstein 6242.

\**H. juniperoides* (Sw.) Grolle – Guyana: GF.

*H. pensilis* (Tayl.) Spruce – Guyana: Stephani 1909–12 as *Schisma trabeculatum* sp. nov.; Fulford 1963; GF.

*Heteroscyphus contortuplicatus* (Mont. & Nees) Grolle – Surinam: FB as *Lophocolea contortuplicata*.

\**Isotachis multiceps* Gott. – Guyana: GF.

\**Jamesoniella rubricaulis* (Nees) Grolle – Guyana: GF.

\**Kurzia capillaris* (Sw.) Grolle – Guyana: GF.

*Lejeunea angusta* (Lehm. & Lindenb.) Mont. – French Guiana: Montagne 1840 as *L. thymifolia* var. *grandistipula* Nees & Mont. var. nov.; Montagne 1855.

*L. cancellata* Nees & Mont. – Surinam: LG.

*L. cerina* (Lehm. & Lindenb.) Gott. et al. – Guyana: R as *Macrolejeunea subsimplex*.

*L. cladogyna* Evans – French Guiana: A.

*L. dimorphophylla* Schust. – Guyana: Cornelissen C581 – Surinam: FB.

*L. elegans* Gott. – Guyana: Syn. Hep., sp. nov.; Taylor 1846 as *L. repens* sp. nov., nom. superfl.

*L. exilis* (Reinw. et al.) Grolle – French Guiana: Syn. Hep. as *L. cucullata* var. *exilis*.

*L. flava* (Sw.) Nees (= *Lejeunea grisella* (Steph.) Steph. syn. nov.; *Eulejeunea grisella* Steph.) – Surinam: Stephani 1890; Stephani 1896 as *Eulejeunea grisella* sp. nov. (holotype:

*Wullschlaegel* 1220, herb. G nr. 23593) – French Guiana: A.

*L. flava* var. *pellucida* Lindenb. & Gott. – Surinam: LG var. nov.

*L. glaucescens* Gott. – Surinam: Gradstein et al. 1985; FB – French Guiana: Cornelissen C330.

*L. laeta* (Lehm. & Lindenb.) Gott. et al. – Surinam: Stephani 1890.

*L. laetevirens* Nees & Mont. – Guyana: Cornelissen C576 – Surinam: FB – French Guiana: A.

\**L. reflexistipula* (Lehm. & Lindenb.) Gott. et al. (= *Hygrolejeunea reflexistipula* (Lehm. & Lindenb.) Steph.) – French Guiana: Montfoort & Ek 459.

*L. remotifolia* Lindenb. ex Steph. nom. inval. – French Guiana: Stephani 1890.

*L. trinitensis* Lindenb. – Surinam: FB as *Chaetolejeunea pililoba* – French Guiana: Cornelissen C224.

*L. weigelii* Lindenb. – Surinam: Syn. Hep., sp. nov.; Stephani 1890.

\**Lepidolejeunea involuta* (Gott.) Grolle – Guyana: Cornelissen C577 – Surinam: FB – French Guiana: Cornelissen C321.

*L. ornata* (Robins.) Schust. – Guyana: Taylor 1846 as *Lejeunea cordifissa* (non typus) – Surinam: Gradstein et al. 1985; Piippo 1986; FB.

*Lejeunea cordifissa* Tayl. was based on two syntype collections: Guyana, Demerara, C.S. Parker s.n., and Ecuador, Esmeraldas, Jameson s.n. The Jameson collection should be chosen as the lectotype because Taylor, in his original description, remarked that “the described specimens were collected by Professor Jameson” (Taylor 1846: 395). Both syntype collections are preserved in the Taylor herbarium (FH); the Parker collection, moreover, is duplicated in the Stephani herbarium (G). The Jameson collection is scanty and consists of a few stems of two different species of *Lejeunea* or *Taxilejeunea*, which I cannot identify. The Parker collection is more copious and represents *Lepidolejeunea ornata*. All species present in the syntype materials fit the original description.

*Lepidozia coilophylla* Tayl. – Guyana: GF – Surinam: Fulford 1966.

\**L. macrocolea* Spruce – Guyana: GF.

*Leptolejeunea elliptica* (Lehm. & Lindenb.) Schiffn. – Guyana: R; Bischler 1969 – Surinam: Lehmann 1833 as *Jungermannia* sp. nov.; JA; FB – French Guiana: Montagne 1840; Bischler 1969.

*L. exocellata* (Spruce) Evans – Surinam: Bischler 1969 – French Guiana: Montfoort & Ek 461.

*L. foraminulosa* Steph. – Surinam: Stephani 1896 sp. nov.; Bischler 1969.

*L. mexicana* Bischler – Surinam, French Guiana: Bischler 1969.

*L. moniliata* Steph. – Surinam: Stephani 1912–17 sp. nov.; Bischler 1969 – French Guiana: Bekker 2257 p.p.

*L. obfuscata* (Spruce) Steph. – Surinam, French Guiana: Bischler 1969.

*L. radicosa* (Nees & Mont.) Grolle – French Guiana: Montagne 1842 sp. nov.; A as *Ceratolejeunea radicosa*; Bischler 1969 as *L. obovata*; Grolle 1979; OC as *L. obovata*.

\**Leptoscyphus cuneifolius* (Hook.) Mitt. – Guyana: GF.

\**L. gibbosus* (Tayl.) Mitt. – Guyana: GF.

\**L. ovatus* (Spruce) Grolle – Guyana: GF.

*L. porphyrius* (Nees) Grolle – Guyana: Cornelissen C578 – Surinam: FB – French Guiana: Montfoort & Ek 462.

*Leucolejeunea xanthocarpa* (Lehm. & Lindenb.) Evans – Guyana: GF – Surinam: LG.

*Lophocolea bidentata* (L.) Dum. – Surinam: FB – French Guiana: Montfoort & Ek 564.

*L. bidentula* (Nees) Fulf. – French Guiana: A as *Chiloscyphus bidentulus*.

*L. connata* (Sw.) Nees – French Guiana: Montagne 1855.

*L. liebmanniana* Gott. – Guyana: GF – Surinam: FB – French Guiana: Montfoort & Ek 465.

*L. martiana* Nees – Guyana: GF – Surinam: JA; FB – French Guiana: Taylor 1846 as *Chiloscyphus jugalifolius* sp. nov.; Fulford 1976; OC.

*L. perissodonta* (Spruce) Steph. – Guyana: GF – Surinam: FB.

\**L. trapezoidea* Mont. – Guyana: GF.

*Lopholejeunea muelleriana* (Gott.) Schiffn. – Guyana: GF – Surinam: FB – French Guiana: Evans 1907; OC.

*L. quelchii* Steph. (*Lopholejeunea howei* Evans syn. nov.) – Guyana: Stephani in Müller 1896 sp. nov.; Cornelissen C579 – Surinam: JA, FB as *L. howei* – French Guiana: OC.

*L. howei* Evans, as described and illustrated by Evans (1907), is identical to *L. quelchii* Steph. (holotype: Georgetown, Quelch s.n., herb. G 17916), which is the older name for this neotropical species.

*L. subfusca* (Nees) Schiffn. – Guyana: GF – Surinam: LG as *Lejeunea sagraeana*; FB – French Guiana: A; OC.

*L. subfusca* var. *minor* Gott. et al. – Surinam: Syn. Hep.

*Marchantia chenopoda* L. – Surinam, French Guiana: Montagne 1855; Bischler 1984.

*Marchesinia brachiata* (Sw.) Schiffn. – Surinam: Stephani 1890; Gradstein et al. 1985; FB.

*M. robusta* (Mitt.) Schiffn. – French Guiana: OC.

\**Marsupidium* sp. – Guyana: GF.

*Mastigolejeunea auriculata* (Wils.) Schiffn. (= *Mastigolejeunea cubensis* Steph. syn. nov.) Guyana: R – Surinam: LG as *Phragmicomia versicolor*; Stephani 1909–12 as *Mastigolejeunea cubensis* sp. nov. (syntypes: Cuba, Wright s.n., herb. G; Paramaribo, Suringar s.n., herb. G); FB – French Guiana: OC.

*Metzgeria adscendens* Steph. ex Goebel – Guyana: Goebel 1893 sp. nov.

Kuwahara (1986) has reduced *M. adscendens* to synonymy under *M. innovans* Steph.

However, *M. adscendens* is the older name of the two and therefore is to be retained.

*M. convoluta* Steph. – French Guiana: A.

*M. effusa* Steph. – Guyana: Stephani 1898–1900 sp. nov.

*M. goebeliana* Steph. – Guyana: Stephani 1917–24 sp. nov.

*M. leptoneura* Spruce – Surinam: Fulford 1948 as *M. hamata* – French Guiana: Cremers 4092.

*M. radicans* Steph. – Guyana: Stephani 1917–24 sp. nov.

\**M. thomeensis* Steph. – French Guiana: Cremers 4136.

*Microlejeunea acutifolia* Steph. – Guyana: Cornelissen C580 – Surinam: FB as *Lejeunea acutifolia* – French Guiana: A; Bischler et al. 1963.

*M. aphanella* (Spruce) Steph. – French Guiana: A; Bischler et al. 1963.

*M. aspera* Steph. – French Guiana: Stephani 1912–17 sp. nov.

This species belongs in *Prionolejeunea* (fide holotype in herb. G: Cayenne, St. Jean, unknown coll.).

*M. bullata* (Tayl.) Evans – Surinam: JA; FB as *Lejeunea ulicina* ssp. *bullata* – French Guiana: A.

*M. crenulifolia* (Gott.) Steph. – Surinam: FB as *Lejeunea crenulifolia* – French Guiana: Bischler et al. 1963.

*M. cystifera* Herz. – French Guiana: A; Bischler et al. 1963.

*M. epiphylla* Bischler – French Guiana: Bischler et al. 1963.

*M. monoica* Bischler – French Guiana: Bischler et al. 1963.

\**Micropterygium campanense* Spruce ex Reim. – Guyana: GF.

*M. grandistipulum* Steph. – Guyana: Stephani 1905–09 sp. nov.; Fulford 1966.

\**M. pterygophyllum* (Nees) Trevis. – Guyana: GF.

*M. tenax* (Steph.) Grolle – Guyana: Stephani 1917–14 as *Lembidium surinamense* sp. nov.; Fulford 1966 as *Micropterygium surinamense*; Grolle 1979a.

*M. trachyphyllum* Reim. – Guyana, Surinam, French Guiana: Syn. Hep.; Reimers 1933; JA; Fulford 1966; OC; FB; GF.

\**M. tumidulum* Fulford – Guyana: GF.

\**Monoclea forsteri* Hook. – Guyana: GF – French Guiana: Gradstein 6199.

\**Mytilopsis albifrons* Spruce – GUYANA: GF.

\**Neesioscyphus argillaceus* (Nees) Grolle – Guyana: GF.

*Neurolejeunea breutelii* (Gott.) Evans – French Guiana: A; OC.

*N. seminervis* (Spruce) Schiffn. – Guyana: R as *N. "brevinervis"*; Cornelissen C582 – Surinam: FB – French Guiana: Montfoort & Ek 466.

\**Nowellia evansii* Grolle – Guyana: GF.

\**Notothylas* sp. – French Guiana: *Gradstein* 6169.

*Odontolejeunea decemdentata* (Spruce) Steph. (= *O. longispica* Evans, syn. fide Teeuwen 1989) – French Guiana: OC, Onraedt 1988 as *O. longispica*; Teeuwen 1989.

*O. lunulata* (Web.) Schiffn. – Guyana: G, R – Surinam: Montagne 1843 as *Phragmicomia calcarata*; JA; FB – French Guiana: Montagne 1855 as *Lejeunea lunulata* var. *calcarata*; A; OC as var. *calcarata*; Onraedt 1988 as *O. lunulata* and *O. sieberiana*; Teeuwen 1989.

*O. rhomalea* (Spruce) Steph. (= *O. obversilobula* Herz., syn. fide Teeuwen 1989) – Guyana: Teeuwen 1989 – Surinam: Teeuwen 1989 – French Guiana: OC. Onraedt 1988 as *O. obversilobula*; Teeuwen 1989.

\**Odontoschisma atropurpureum* Steph. – Guyana: GF.

*O. brasiliense* Steph. – Surinam: Fulford 1968.

\**O. denudatum* (Nees) Dum. – Guyana: GF – French Guiana: *De Granville* 5919.

*O. falcifolium* Steph. – Guyana: *Cornelissen* C583 – Surinam: Fulford 1968; FB – French Guiana: Fulford 1968.

\**Omphalanthus filiformis* (Sw.) Nees – Guyana: GF.

\**O. paramicola* (Herz.) Gradst. (= *Aureolejeunea paramicola* (Herz.) Schust.) – Guyana: GF.

*Pallavicinia lyellii* (Hook.) Carruth. – Guyana: Stephani 1898–1900 as *Symphyogyna goebelii* sp. nov.; Evans 1927.

*Pictolejeunea picta* (Gott. ex Steph.) Grolle – Guyana: R as *Prionolejeunea picta*; Grolle 1977 – Surinam: Grolle 1977; FB – French Guiana: OC.

*Plagiochila abrupta* Lehm. & Lindenb. – Guyana: R – French Guiana: Montagne 1856 as *P. leprieurii* sp. nov.; Dugas 1929.

\**P. aerea* Tayl. (= *P. steyermarkii* Robins., syn. fide H. Inoue) – Guyana: GF (det. H. Inoue).

*P. amazonica* Spruce – Guyana: R – Surinam- FB – French Guiana: *Cremers* 4219.

\**P. bidens* Gott. – Guyana: GF (det. H. Inoue).

\**P. bursata* (Desv.) Lindenb. – Guyana: GF – French Guiana: *Cremers* 5635.

\**P. contigua* (Nees) Grolle – Guyana: *Cornelissen* C584 – French Guiana: *Cremers* 4201.

*P. cristata* Lindenb. – Guyana: Lehmann 1844; Syn. Hep.

*P. depressa* Spruce – Guyana: GF (det. H. Inoue) – Surinam: Stephani 1901–06.

*P. dichotoma* (Nees) Dum. – Surinam: FB.

*P. disticha* Lehm. & Lindenb. – Guyana: *Cornelissen* C585 – French Guiana: Syn. Hep.  
See note under *P. hypnoides*.

*P. divaricata* Lindenb. (= *P. benoistii* Dugas syn. nov., fide H. Inoue) – Guyana: GF (det.

H. Inoue) – Surinam: FB – French Guiana: Syn. Hep. as *P. distinctifolia* var. *latifolia* p.p. (fide H. Inoue); Stephani 1901–06 as *P. confundens* (fide H. Inoue); Dugas 1928, as *P. divaricata* and as *P. benoistii* sp. nov.

\**P. dussiana* Steph. – Guyana: GF (det. H. Inoue).

\**P. echinella* Gott. – Guyana: GF (det. H. Inoue).

\**P. esmeraldana* Steph. – Guyana: GF (det. H. Inoue).

*P. falcata* Steph. – French Guiana: Syn. Hep. as *P. distinctifolia* var. *latifolia* p.p. (fide H. Inoue).

*P. guatemalensis* Steph. – French Guiana: Dugas 1929.

\**P. guilleminiana* Mont. – Guyana: FB (det. H. Inoue).

\**P. hansmeyeri* Steph. – Guyana: GF (det. H. Inoue).

*P. hyalocoetis* Spruce – Guyana: R.

*P. hypnoides* Lindenb. – Guyana: Syn. Hep. as *P. martiana* (fide H. Inoue) – Stephani 1901–06 as *P. confertissima* (fide H. Inoue); G, R – Surinam: Montagne 1841; LG; Stephani 1901–06 as *P. florida* (fide H. Inoue); Dugas 1929; FB – French Guiana: Syn. Hep.; Dugas 1929 as *P. hypnoides* and as *P. riojaneirensis* (fide H. Inoue).

*P. hypnoides* is probably a synonym of *H. disticha* Lehm. & Lindenb. (fide H. Inoue).

\**P. irmscheri* Steph. – Guyana: GF (det. H. Inoue).

*P. jamaicensis* Lindenb. & Hampe (= *P. biserrula* Mont. syn. nov., fide H. Inoue) – Surinam: Miquel 1025 (PC, det. H. Inoue) – French Guiana: Montagne 1855 as *P. biserrula* sp. nov.

*P. kegeliana* Step. (= *P. blepharophora* Nees var. *tenuer* Lindenb. syn. nov., fide H. Inoue; *P. boschiana* Steph. syn. nov., fide H. Inoue; *P. penicillata* Steph. syn. nov., fide H. Inoue) – Guyana: Stephani 1917–24 as *P. penicillata* sp. nov.; R – Surinam: LG as *P. subplana* (fide H. Inoue); Stephani 1901–06 sp. nov.; Stephani 1917–24 as *P. boschiana* sp. nov. – French Guiana: Montagne 1840 as *P. adiantoides*; Syn. Hep. & Montagne 1855 as *P. blepharophora* var. *tenuer* Lindenb. var. nov.; Dugas 1929 as *P. formosa* (not the type, fide H. Inoue).

*P. laetevirens* Lindenb. (= *P. hondurensis* Herz. syn. nov., fide H. Inoue) – Guyana: GF – Surinam: FB as *P. hondurensis* – French Guiana: *Rech s.n.*, intermingled among the type of *P. rechiana* (fide H. Inoue); *Montfoort & Ek 406*.

\**P. lansbergeri* Gott. – Guyana: GF (det. H. Inoue).

*P. macrifolia* Tayl. – Guyana: GF – Surinam: FB.

*P. micropteryx* Gott. (= *P. rechiana* Dugas, fide H. Inoue) – Guyana: GF – French Guiana: Dugas 1929 as *P. rechiana* sp. nov.

*P. montagnei* Nees – French Guiana: Montagne 1835 as *Jungermannia martiana*; Nees & Montagne 1836 sp. nov.; Dugas 1929; Carl 1931.

*P. orbigniana* Nees & Mont. – Guyana: Cornelissen C597 – Surinam: FB.

*P. patentissima* Lindenb. – Guyana: GF – Surinam: *Miquel 1001, 1003* (PC, det. H. Inoue).

*P. patula* (Sw.) Nees & Mont. – French Guiana: Syn. Hep.; Dugas 1929.

\**P. pearceana* Steph. – Guyana: GF (det. H. Inoue).

\**P. perrotettiana* Mont. – French Guiana: *Cremers 4197*.

\**P. pittieri* Steph. – Guyana: GF – French Guiana: *Cremers 4245*.

*P. quelchii* Steph. – Guyana: Stephani 1717–24.

*P. rutilans* Lindenb. – Guyana: G, R, GF – Surinam: *Miquel 1191* (pc, det. H. Inoue) – French Guiana: Syn. Hep. as *P. rutilans* var. *laxa* var. nov. (syntype PC, det. H. Inoue).

\**P. rubescens* (Lehm. & Lindenb.) Lindenb. – Guyana: GF (det. H. Inoue).

*P. semi-amplexicaulis* Steph. – Surinam: Stephani 1901–06 sp. nov.

*P. serrata* (Roth) Lindenb. – Guyana: Stephani 1901–06; R – Surinam: Montagne 1841; Stephani 1901–06 as *P. disticha* (fide H. Inoue); Dugas 1929 – French Guiana: Montagne 1855 as *P. serrata* var. *surinamensis* Mont. nom. nud.; Stephani 1901–06.

*P. subplana* Lindenb. – Guyana: Syn. Hep.

*P. subsimplex* (Sw.) Dum. – Guyana: R.

*P. surinamensis* Molk. – Surinam: Sande Lacoste 1856; Stephani 1901–06; Dugas 1929.

*P. tenuis* Lindenb. – Guyana: *Cornelissen C588* – French Guiana: *Cremers 4015*.

\**Pleurozia heterophylla* Steph. ex Fulf. – Guyana: GF.

*Prionolejeunea aemula* (Gott.) Evans – French Guiana: OC (?); *Bekker 2322 p.p.*

*P. eroso-dentata* Steph. – Surinam: Stephani 1917–24 sp. nov.

*P. galliotii* Steph. – French Guiana: A.

*P. guadalupensis* (Lindenb.) Steph. – French Guiana: A.

\**P. macrocardia* (Spruce) Steph. – French Guiana: *Cremers 6260*.

*P. microdonta* (Gott.) Steph. – French Guiana: Montagne 1855.

*P. subobscura* Spruce ex Steph. – French Guiana: OC.

*P. trachyodes* (Spruce) Steph. – French Guiana: OC.

\**Pteropsiella serrulata* Spruce ex Steph. – Guyana: GF – Surinam: *Bekker 1504, 1506, 1511*.

\**Pycnolejeunea callosa* (Lindenb.) Steph. – Guyana: *Cornelissen C589*.

*P. contigua* (Nees) Grolle – Guyana: *Cornelissen C590* – Surinam: FB – French Guiana: Montagne 1840.

*P. decurvirobora* Steph. – Surinam: JA.

*P. macroloba* (Nees & Mont.) Schiffn. – S.l.: Syn. Hep.; Stephani 1912–17 – Guyana: *Cornelissen C591* – Surinam: JA – French Guiana: Montagne 1843 as *Lejeunea macroloba* sp. nov.; A; OC.

- P. surinamensis* Steph. – Surinam: Stephani 1912–17 sp. nov.
- Radula boryana* (Web.) Nees – French Guiana: OC.
- R. decora* Gott. – French Guiana: A.
- R. fendleri* Gott. ex Steph. – Surinam: Stephani 1909–12 as *R. saccatiloba*; Castle 1963; Yamada 1980.
- R. flaccida* Lindenb. & Gott. – Guyana: G; Castle 1959; R – Surinam: LG; Castle 1939; FB – French Guiana: A; OC.
- \**R. gradsteinii* Yamada – Guyana: GF (det. K. Yamada).
- \**R. guyanensis* Yamada – Guyana: GF (det. K. Yamada).
- \**R. husnotii* Castle – Guyana: GF (det. K. Yamada) – French Guiana: Montfoort & Ek 412.
- \**R. involvens* Spruce – Guyana: GF (det. K. Yamada).
- R. kegelii* Gott. ex Steph. – Surinam: Stephani 1884 sp. nov.; Castle 1959; Yamada 1980 – French Guiana: A as *R. didrichsenii*; Castle 1959; OC.
- R. laxiramae* Steph. – French Guiana: Castle 1959.
- R. recubans* Tayl. – Guyana: Taylor 1846 sp. nov.; Castle 1939; Yamada 1980.
- R. stenocalyx* Mont. – French Guiana: Syn. Hep. as *R. pallens* var. *loborhiza* var. nov.; Montagne 1855 sp. nov.; Castle 1939; OC.
- R. surinamensis* Steph. – Guyana: GF (det. K. Yamada) – Surinam: Stephani 1884 sp. nov.; Castle 1966 – French Guiana: A; Castle 1966.
- R. taylori* Steph. – Guyana: Stephani 1884 sp. nov., Castle 1968.
- \**R. tenera* Mitt. ex Steph. – Guyana: GF (det. K. Yamada).
- Rectolejeunea berteroana* (Gott.) Evans – Surinam: FB – French Guiana: OC.
- R. brittoniae* Evans – Guyana: Cornelissen C593 – Surinam: FB – French Guiana: Montfoort & Ek 468.
- R. emarginuliflora* (Gott. ex Schiffn.) Evans – French Guiana: OC.
- R. flagelliformis* Evans – Guyana: Cornelissen C594 – Surinam: JA; FB.
- R. kegelii* (Steph.) Steph. – Surinam: Stephani 1895 as *Cheilolejeunea kegelii* sp. nov.; Stephani 1912–17.
- R. mandiocanna* (Steph.) Steph. – Surinam: Stephani 1895 as *Cheilolejeunea mandiocanna* sp. nov.; Stephani 1912–17.
- R. phyllobola* (Nees & Mont.) Evans – Surinam: Montagne 1841; LG as *Lejeunea phyllobola* – French Guiana: Bekker 2251 p.p.
- Rhaphidolejeunea polyrhiza* (Nees) Bischler – French Guiana: Syn. Hep. as *Lejeunea polyrhiza* sp. nov.; Bischler 1968; OC.
- Riccardia amazonica* (Spruce) Schiffn. ex Gradst. & Hekking – Guyana: GF – Surinam:

FB – French Guiana: Montagne 1840, 1855 as *Aneura pinnatifida* (fide specimen in herb. PC-Mont.: *Leprieur* 262, 1388).

\**R. andina* (Spruce) Herz. – Guyana: GF.

\**R. cervicornis* (Spruce) Herz. ex Gradst. & Hekking – Guyana: GF.

*R. digitiloba* (Spruce) Pagan fo. *propagulifera* Schiffn. – Surinam: FB.

\**R. fendleri* (Steph.) Pagan – French Guiana: *Cornelissen* C309 (det. J. Meenks).

\**R. fucoidea* (Sw.) Schiffn. – Guyana: GF.

\**R. plumaeformis* (Spruce) Meenks – Guyana: GF.

\**R. schwanckei* (Steph.) Pagan – Guyana: GF.

*R. sprucei* (Steph.) Meenks & de Jong – French Guiana: Montagne 1840: 1855 as *Aneura palmata* (fide specimen in herb. PC-Mont.: *Leprieur* 274); *Bekker* 2267 (det. J. Meenks).

\**Riccia* sp. – Guyana: *Gradstein & Aptroot* 5746 – French Guiana: *Cremers* 5208.

\**Scapania portoricensis* Hampe & Gott. – Guyana: GF.

\**Schiffnerolejeunea amazonica* Gradst. – French Guiana: *Montfoort & Ek* 13.

*S. polycarpa* (Nees) Gradst. – Surinam: Stephani 1912–17 as *Ptychocoleus juliformis* (fide specimen in herb. L: “dedit Miquel”); *Wullschlaegel* s.n. (herb. c).

*Schusterolejeunea inundata* (Spruce) Grolle – Surinam: FB – French Guiana: OC as *Cladocolea inundata*.

\**Stenorhipis grollei* Gradst. – Guyana: GF.

*Stictolejeunea balfourii* (Mitt.) E. W. Jones var. *bekkeri* Gradst. – Surinam: Gradstein 1985 var. nov.; FB – French Guiana: *Gradstein* 6164, 6166.

*S. squamata* (Willd. ex Web.) Schiffn. – Guyana: R; Gradstein 1985 – Surinam: LG as *Lejeunea squamata*; JA; Gradstein 1985; FB – French Guiana: Montagne 1835 as *Jungermannia squamata*; A as *S. kunzeana*; OC; Gradstein 1985.

*Symbiezidium barbiflorum* (Lindenb. & Gott.) Evans – Guyana: *Cornelissen* C595 – Surinam: LG sp. nov.; JA; Gradstein & van Beek 1985; FB – French Guiana: Syn. Hep. as *Lejeunea granulata* fo. *minor*; OC; Gradstein & van Beek 1985.

*S. transversale* (Sw.) Trevis. – Guyana: GF – Surinam: LG as *Lejeunea transversalis* var. *laxior* var. nov.; Gradstein & van Beek 1985; FB – French Guiana: Gradstein & van Beek 1985.

*S. transversale* var. *hookerianum* (Gott. et al.) Gradst. & van Beek – Guyana: Syn. Hep. as *Lejeunea transversale* var. *hookeriana*; G as *S. vincentinum*; Fulford 1942 as *S. taeniopsis*; Gradstein & van Beek 1985 – Surinam: Gradstein & van Beek 1985.

\**Symphyogyna aspera* Steph. – Guyana: GF (det. G. B. A. van Reenen).

\**S. brasiliensis* Nees – Guyana: GF (det. G. B. A. van Reenen).

*S. bronniartii* Mont. – French Guiana: OC.

\**S. marginata* Steph. – Guyana: GF (det. G. B. A. van Reenen).

*S. sinuata* (Sw.) Nees & Mont. – French Guiana: Montagne 1840 as *Diplolaena sinuata*; Stephani 1898–1900.

According to Evans (1925) *S. sinuata* is only known from Jamaica; published records from other neotropical areas should belong to *S. aspera* or *S. brongniartii*.

\**Syzygiella perfoliata* (Sw.) Spruce – Guyana: GF.

*Taxilejeunea asthenica* (Spruce) Steph. – French Guiana: A.

*T. debilis* (Lehm. & Lindenb.) Steph. – French Guiana: OC.

*T. fissistipula* Steph. – French Guiana: OC.

*T. sulphurea* (Lehm. & Lindenb.) Schiffn. – French Guiana: OC.

*T. surinamensis* (Lindenb. & Gott.) Steph. – Surinam: LG as *Omphalanthus surinamensis* sp. nov.; Stephani 1912–17 – French Guiana: OC.

*T. uleana* Steph. – Surinam: Stephani 1912–17.

*Telaranea nematodes* (Gott. ex Aust.) Howe – Guyana: R; GF – Surinam: FB – French Guiana: OC.

*Thysananthus amazonicus* (Spruce) Schiffn. – GUYANA: G; Fulford 1941; R; GF – Surinam: JA; FB – French Guiana: OC.

*T. comosus* Lindenb. – Guyana: Lehmann 1844 sp. nov.; Spruce 1884 as *Lejeunea dissoptera* sp. nov.; Fulford 1941.

\**Trabacellula tumidula* Fulf. – Guyana: GF.

*Trachylejeunea pandurantha* (Spruce) Steph. – Guyana: Cornelissen C596 – Surinam: FB.

*Trichocolea sprucei* Steph. – French Guiana: OC.

*T. tomentosa* (Sw.) Gott. – Guyana: Stephani 1909–12 as *T. grandifolia* sp. nov., Fulford 1963 – French Guiana: OC.

\**Tylimanthus subtilis* Steph. – Guyana: GF (det. R. Grolle).

\**T.* sp. – Guyana: GF.

\**Verdoornianthus griffinii* Gradst. – French Guiana: Cornelissen C269.

*Zoopsis monodactyla* (Spruce) Schust. – Guyana: R as *Zoopsis monodactyla*; GF.

*Z. serra* (Spruce) Schust. – Surinam: FB.

*Zoopsis antillana* Steph. – Guyana: R.

*Z. cynosuranda* Spruce ex Steph. – Guyana: R – Surinam: FB.

\**Z. integrifolia* (Spruce) Steph. – Guyana: GF.

*Z. macella* (Spruce) Fulf. – Guyana: GF – Surinam: FB.

SYNONYMS<sup>3</sup>

- Archilejeunea conduplicata* Steph. = *Brachiolejeunea phyllorrhiza*  
*A. juliformis* (Nees) Gradst. = *A. fuscescens*  
*A. parviloba* Steph. = *A. parviflora*  
*A. spruceana* Steph. = *A. fuscescens*  
*Aureolejeunea paramicola* (Herz.) Schust. = *Omphalanthus paramicola*  
*Bazzania platystipula* (Lindenb.) Trev. = *B. roraimensis*  
\**B. tricuspidata* (Steph.) Fulf. = *B. longistipula*  
*Brachiolejeunea surinamensis* Steph. = *Frullanoides corticalis*  
*Calypogeia amazonica* (Spruce) Steph. = ? *C. miquelii* (types not seen)  
*Ceratolejeunea radicosa* (Nees & Mont.) Steph. = *Leptolejeunea radicosa*  
*Chaetolejeunea pililoba* (Spruce) Schust. = *Lejeunea trinitensis*  
\**Cheirolejeunea brunella* Steph. = *C. discoidea*  
*C. decidua* (Spruce) Evans = *C. adnata*  
*C. duriuscula* (Nees) Schiffn. = *C. rigidula*  
*C. kegelii* Steph. = *Rectolejeunea kegelii*  
*C. mandiocana* Steph. = *Rectolejeunea mandiocana*  
\**C. myriantha* (Nees & Mont.) Schust. = *C. discoidea*  
*Chiloscyphus bidentulus* Nees = *Lophocolea bidentula*  
*C. jugaliformis* Tayl. = *Lophocolea martiana*  
*Cladocolea inundata* (Spruce) Schust. = *Schusterolejeunea inundata*  
*Cololejeunea diaphana* Evans = *Aphanolejeunea diaphana*  
\**C. mosenii* (Steph.) S. Arnell = *C. scabiflora*  
*C. scabiflora* (Gott.) Schiffn. = *C. obliqua*  
*Cyclolejeunea angulata* Herz. = *C. foliorum*  
*C. mimula* Steph. = *C. peruviana*  
*Diplasiolejeunea brachyclada* Evans = *D. cavifolia*  
*Diplolaena sinuata* (Sw.) Nees = *Symphyogyna sinuata*  
*Drepanolejeunea trifida* Steph. = *D. crucianella*  
\**Eulejeunea grisella* Steph. = *Lejeunea flava*  
*Euomsmolejeunea anomala* (Lindenb. & Gott.) Zwickel = *Ceratolejeunea anomala*  
*E. duriuscula* (Nees) Steph. = *Cheirolejeunea rigidula*  
\**E. incerta* Steph. = *Cheirolejeunea rigidula*  
*E. longiflora* Tayl. = *Cheirolejeunea longiflora*  
\**E. neglecta* Gott. ex. Steph. = *Cheirolejeunea rigidula*  
*E. trifaria* (Reinw. et al.) Steph. = *Cheirolejeunea trifaria*  
*Frullania arietina* Tayl. = *F. riojaneirensis*  
*F. atrata* (Sw.) Nees var. *subtilissima* Mont. = *F. subtilissima*  
*F. diffusa* Steph. = *F. breutelianae*  
*F. ecklonii* (Spreng.) Spreng. = *F. arecae*  
*F. filicina* Sw. = *Bryopteris filicina*  
\**F. gymnotis* Nees & Mont. = *F. obcordata* var. *armata*  
*F. hians* (Lehm. & Lindenb.) Lehm. & Lindenb. = *F. arecae*  
*F. leprieurii* Lindenb. = *F. neesii*  
*F. leprieurii* Nees & Mont. = *Frullanoides corticalis*  
\**F. paraensis* Steph. = *F. apiculata*  
*F. parasitica* Lindenb. = *F. neesii*  
\**F. pulcherrima* Steph. = *F. apiculata*

<sup>3</sup> \* . . . New synonymy.

- F. replicata* Nees = *F. nodulosa*  
*F. squarrosa* Nees = *F. ericoides*  
 \**F. surinamensis* Steph. = *F. gibbosa*  
 \**F. suringarii* Steph. ex Bonner nom. nud. = *F. ericoides*  
*F. taylori* Gott. = *F. gaudichaudii*  
*F. thuillieri* Nees = *F. nodulosa*  
 \**F. wullschlaegeli* Steph. = *F. gibbosa*  
 \**Frullanoides tristis* (Steph.) van Slag. = *Frullanoides liebmanniana*  
*Herpetium stoloniferum* (Sw.) Mont. = *Bazzania bidens*  
*H. stoloniferum* Sw. var. *irregularis* Mont. = *Bazzania stoloniferum*  
*Hygrolejeunea reflexistipula* (Lehm. & Lindenb.) Steph. = *Lejeunea reflexistipula*  
*Jungermannia leprieurii* Mont. = *Archilejeunea parviflora*  
*J. martiana* Nees = *Plagiochila montagnei*  
*J. obcordata* Lehm. & Lindenb. = *Frullania obcordata*  
*J. serpentina* Nees = *Bazzania bidens*  
*J. squamata* Willd. ex Web. = *Stictolejeunea squamata*  
*J. torulosa* Lehm. & Lindenb. = *Acrolejeunea torulosa*  
*Lejeunea adglutinata* Tayl. = *Cyclolejeunea peruviana*  
*L. adnata* (Kunze ex Lehm.) Mont. = *Cheilolejeunea adnata*  
*L. amazonica* Steph. = *Ceratolejeunea amazonica*  
*L. amoena* Gott. = *Cheilolejeunea trifaria*  
*L. amoena* Gott. var. *intermedia* = *Cheilolejeunea trifaria*  
*L. anomala* Lindenb. & Gott. = *Ceratolejeunea anomala*  
*L. auberiana* Mont. = *Archilejeunea auberiana*  
 \**L. brunella* Steph. = *Cheilolejeunea rigidula*  
*L. cardiocarpa* Mont. = *Cololejeunea cardiocarpa*  
*L. ceratantha* Nees & Mont. = *Ceratolejeunea cornuta*  
*L. chitonii* Tayl. = *Cyclolejeunea chitonii*  
*L. clausa* Nees & Mont. = *Cheilolejeunea clausa*  
*L. convexistipa* (Lehm. & Lindenb.) Gott. & al. = *Cyclolejeunea convexistipa*  
*L. cornuta* (Lindenb.) Nees = *Ceratolejeunea cornuta*  
*L. crenata* Nees & Mont. = *Crossotolejeunea crenata*  
*L. crenulifolia* Gott. = *Microlejeunea crenulifolia*  
*L. crucianella* Tayl. = *Drepanolejeunea crucianella*  
*L. cucullata* (Reinw. et al.) Nees var. *cuspidata* Mont. ex Bischl. nom. inval. = *Drepanolejeunea bidens*  
*L. cucullata* (Reinw. et al.) Nees var. *exilis* (Reinw. et al.) Gott. et al. = *L. exilis*  
*L. desciscens* Sande Lac. = *Ceratolejeunea desciscens*  
 \**L. diaphana* Steph. = *Cheilolejeunea trifaria*  
*L. dissotera* Spruce = *Thysananthus comosus*  
*L. duriuscula* Nees = *Cheilolejeunea rigidula*  
 \**L. flexuosa* Lindenb. = *Cheilolejeunea rigidula*  
*L. funckiana* Nees = *Crossotolejeunea boryana*  
*L. granulata* (Nees) Gott. et al. = *Symbiezidium barbiflorum*  
 \**L. grisella* (Steph.) Steph. = *L. flava*  
*L. guianensis* Nees & Mont. = *Ceratolejeunea guianensis*  
*L. hamatifolia* (Hook.) Spreng. var. *gracillima* Gott. et al. = *Drepanolejeunea bidens*  
*L. hyalino-marginata* Nees = *Diplasiolejeunea* sp.  
*L. inflexa* Hampe ex Lehm. & Lindenb. = *Cheilolejeunea inflexa*  
*L. involvens* Nees & Mont. = *Ceratolejeunea involvens*  
*L. kegelii* Lindenb. & Gott. = *Ceratolejeunea kegelii*

- L. leprieurii* (Mont.) Mont. var. *duriaei* Gott. et al. = *Archilejeunea parviflora*  
*L. lunulata* (Web.) Nees var. *calcarata* (Mont.) Gott. et al. = *Odontolejeunea lunulata*  
*L. macroloba* Nees & Mont. = *Pycnolejeunea macroloba*  
\**L. myriantha* Nees & Mont. = *Cheilolejeunea discoidea*  
*L. ocellulata* Nees & Mont. = *Diplasiolejeunea pellucida*  
*L. opaca* Gott. = *Cheilolejeunea clausa*  
*L. orthophylla* Nees & Mont. = *Drepanolejeunea orthophylla*  
*L. oxyphylla* Nees & Mont. = *Harpalejeunea oxyphylla*  
*L. pellucida* (Meissn. ex Spreng.) Gott. et al. = *Diplasiolejeunea pellucida*  
*L. peruviana* (Lehm. & Lindenb.) Gott. et al. = *Cyclolejeunea peruviana*  
*L. phyllobola* Nees & Mont. = *Rectolejeunea phyllobola*  
*L. polyrhiza* (Nees) Gott. = *Rapidolejeunea polyrhiza*  
*L. repens* Tayl. = *L. elegans*  
*L. rigidula* Nees & Mont. = *Cheilolejeunea rigidula*  
*L. sagraeana* (Mont.) Gott. et al. = *Lopholejeunea subfuscata*  
*L. scalpellifolia* Besch. & Spruce = *Cyclolejeunea convexistipa*  
*L. splitgerberiana* Mont. = *Ceratolejeunea splitgerberiana*  
*L. squamata* (Willd. ex Web.) Nees = *Stictolejeunea squamata*  
*L. stenophylla* Lindenb. & Gott. = *Drepanolejeunea orthophylla*  
*L. surinamensis* Hampe ex Lehm. = *Crossotolejeunea boryana*  
*L. surinamensis* (Mont.) Gott. et al. nom. illeg. = *Cyclolejeunea convexistipa*  
\**L. surinamensis* Steph. nom. illeg. = *Cheilolejeunea trifaria*  
*L. thymifolia* Mont. var. *grandistipula* Nees & Mont. = *L. angusta*  
*L. tortifolia* Nees & Mont. = *Colura tortifolia*  
*L. transversalis* (Sw.) Nees = *Symbiezidium transversale*  
*L. transversalis* (Sw.) Nees var. *laxior* Lindenb. & Gott. = *Symbiezidium transversale*  
*L. trifaria* (Reinw. et al.) Gott. et al. = *Cheilolejeunea trifaria*  
*Leptocolea cardiocarpa* (Mont.) Evans = *Cololejeunea cardiocarpa*  
*L. scabriflora* (Gott.) Evans = *Cololejeunea obliqua*  
*Leptolejeunea obovata* Bischler = *L. radicosa*  
*Lophocolea contortuplicata* (Mont. & Nees) Fulf. = *Heteroscyphus contortuplicata*  
*L. orthophylla* (Nees & Mont.) Steph. = *Drepanolejeunea orthophylla*  
\*Lopholejeunea howei Evans = *L. quelchii*  
*Macrolejeunea subsimplex* (Mont. & Nees) Schiffn. = *Lejeunea cerina*  
\**Marchesina cruegeri* Steph. = *Archilejeunea fuscescens*  
\*M. pseudocucullata Steph. = *Cyrtolejeunea holostipa*  
\*Mastigobryum tricuspidatum Steph. = *Bazzania longistipula*  
\*Mastigolejeunea cubensis Steph. = *M. auriculata*  
*Metzgeria hamata* Lindenb. = *M. leptoneura*  
*Micropterygium surinamense* (Steph.) Reim. = *M. tenax*  
*Odontolejeunea longispica* Evans = *O. decendentata*  
*O. obversilobula* Herz. = *O. rhomalea*  
*O. sieberiana* (Gott.) Schiffn. = *O. lunulata*  
*Omphalanthus surinamensis* Lindenb. & Gott. = *Taxilejeunea surinamensis*  
*Phragmicomia calcarata* Mont. = *Odontolejeunea lunulata*  
*P. surinamensis* Mont. = *Cyclolejeunea convexistipa*  
*P. versicolor* Lehm. & Lindenb. = *Mastigolejeunea auriculata*  
*Physocolea kegelii* (Steph.) Steph. = *Cololejeunea kegelii*  
\**Plagiochila benoistii* Dugas = *P. divaricata*  
\**P. biserrula* Mont. = *P. jamaicensis*

- \**P. blepharophora* Nees var. *tenuer*a Lindenb.=*P. kegeliana*
- \**P. boschiana* Steph.=*P. kegeliana*
- \**P. hondurensis* Herz.=*P. laetevirens*
- P. leprieurii* Mont.=*P. abrupta*
- \**P. penicillata* Steph.=*P. kegeliana*
- \**P. rechiana* Dugas=*P. micropteryx*
- \**P. steyermarkii* Robins.=*P. aerea*
- Prionolejeunea picta* Gott. ex Steph.=*Pictolejeunea picta*
- Ptychocoleus grossispicus* Steph.=*Acrolejeunea emergens*
- Radula didrichsenii* Steph.=*R. kegelii*
- R. longifolia* Steph.=*R. surinamensis*
- R. pallens* (Sw.) Nees var. *loborhiza* Nees & Mont.=*R. stenocalyx*
- R. saccatiloba* Steph.=*R. fendleri*
- Schisma trabeculatum* Steph.=*Herbertus pensilis*
- Stictolejeunea kunzeana* (Gott.) Schiffn.=*S. squamata*
- Symbiezidium taeniopsis* (Spruce) Fulf.=*S. transversale* var. *hookerianum*
- S. vincentinum* (Gott.) Trevis.=*S. transversale* var. *hookerianum*
- Symphyogyna goebelii* Steph.=*Pallavicinia lyellii*
- Trachylejeunea inflexa* (Hampe ex Lehm.) Steph.=*Cheilolejeunea inflexa*
- Trichocolea grandifolia* Steph.=*T. tomentosa*
- Zoopsis monodactyla* Spruce=*Zoopsisidella monodactyla*

#### SYSTEMATIC ARRANGEMENT OF THE GENERA AND FAMILIES OF THE HEPATICAE AND ANTHOCEROTAE OF THE GUIANAS

The arrangement follows Grolle (1983) with slight alterations.

##### HEPATICAE

##### JUNGERMANNIALES

1. HERBERTACEAE  
*Herbertus* S. Gray
2. TRICHOCOLEACEAE  
*Trichocolea* Dum.
3. LEPODOZIACEAE  
LEPIDOZIOIDAE  
*Arachniopsis* Spruce  
*Kurzia* v. Martens  
*Lepidozia* (Dum.) Dum.  
*Telaranea* Spruce ex Schiffn.  
BAZZANIOIDAE  
*Bazzania* S. Gray
- MICROPTERYGIOIDAE  
*Micropterygium* Lindenb.  
*Mytilopsis* Spruce
- ZOOPSIDAE  
*Pteropsiella* Spruce  
*Zoopsisidella* Schust.  
*Zoopsis* Hook. ex Gott. et al.

4. CALYPOGEIACEAE  
*Calypogeia* Raddi
5. CEPHALOZIACEAE  
CEPHALOZIOIDEAE  
*Cephalozia* (Dum.) Dum.  
*Nowellia* Mitt.  
ALOBIELLOIDEAE  
*Alobiella* (Spruce) Schiffn.  
ODONTOSCHISMATOIDEAE  
*Odontoschisma* (Dum.) Dum.  
*Anomoclada* Spruce
6. CEPHALOZIELLACEAE  
*Cylindrocolea* Schust.
7. JUNGERMANNIACEAE  
*Anastrophyllum* (Spruce) Steph.  
*Jamesoniella* (Spruce) Carr.  
*Syzygiella* Spruce  
*Stenorrhipsis* Herz.
8. SCAPANIACEAE  
*Scapania* (Dum.) Dum.
9. GEOCALYCACEAE  
*Heteroscyphus* Schiffn.  
*Leptoscyphus* Mitt.  
*Lophocolea* (Dum.) Dum.
10. PLAGIOCHILACEAE  
*Plagiochila* (Dum.) Dum.
11. ACROBOLBACEAE  
*Marsupidium* Mitt.  
*Tylimanthus* Mitt.
12. BALANTIOPSACEAE  
*Isotachis* Mitt.  
*Neesioscyphus* Grolle
13. PLEUROZIACEAE  
*Pleurozia* Dum.
14. RADULACEAE  
*Radula* Dum.
15. FRULLANIACEAE  
*Frullania* Raddi
16. LEJEUNEACEAE  
PTYCHANTHOIDEAE (inclus. BRYOPTERIDOIDEAE)  
*Acanthocoleus* Schust.  
*Acrolejeunea* (Spruce) Schiffn.  
*Archilejeunea* (Spruce) Schiffn.

- Brachiolejeunea* (Spruce) Schiffn.  
*Bryopteris* (Nees) Lindenb.  
*Caudalejeunea* (Steph.) Schiffn.  
*Dicranolejeunea* (Spruce) Schiffn.  
*Frullanoides* Raddi  
*Lopholejeunea* (Spruce) Schiffn.  
*Marchesinia* S. Gray  
*Mastigolejeunea* (Spruce) Schiffn.  
*Neurolejeunea* (Spruce) Schiffn.  
*Odontolejeunea* (Spruce) Schiffn.  
*Schiffnerolejeunea* Verd.  
*Stictolejeunea* (Spruce) Schiffn.  
*Symbiezidium* Trev.  
*Thysananthus* Lindenb.  
*Verdoornianthus* Gradst.  
LEJEUNEOIDEAE (inclus. COOLEJEUNEOIDEAE, MYRIOCOLEOIDEAE, TUYAMAELLOIDEAE)  
*Anoplolejeunea* (Spruce) Schiffn.  
*Ceratolejeunea* (Spruce) Schiffn.  
*Cheilolejeunea* (Spruce) Schiffn.  
*Crossotolejeunea* (Spruce) Schiffn.  
*Cyclolejeunea* Evans  
*Cyrtolejeunea* Evans  
*Drepanolejeunea* (Spruce) Schiffn.  
*Echinocolea* Schust.  
*Haplolejeunea* Grolle  
*Harpalejeunea* (Spruce) Schiffn.  
*Lejeunea* Lib.  
*Lepidolejeunea* Schust.  
*Leptolejeunea* (Spruce) Schiffn.  
*Leucolejeunea* Evans  
*Microlejeunea* Steph.  
*Omphalanthus* Lindenb. & Nees  
*Pictolejeunea* Grolle  
*Prionolejeunea* (Spruce) Schiffn.  
*Pycnolejeunea* (Spruce) Schiffn.  
*Rectolejeunea* Evans  
*Rhaphidolejeunea* Herz.  
*Schusterolejeunea* Grolle  
*Taxilejeunea* (Spruce) Schiffn.  
*Trachylejeunea* (Spruce) Schiffn.  
*Aphanolejeunea* Evans  
*Cololejeunea* (Spruce) Schiffn.  
*Colura* (Dum.) Dum.  
*Diplasiolejeunea* (Spruce) Schiffn.

**METZGERIALES**

17. PALLAVICINIACEAE  
*Pallavicinioideae*  
*Pallavicinia* S. Gray  
*Symphyogynoideae*  
*Symphyogyna* Nees & Mont
18. ANEURACEAE  
*Aneura* Dum.  
*Riccardia* S. Gray
19. METZGERIACEAE  
*Metzgeria* Raddi

**MONOCLEALES**

20. MONOCLEACEAE  
*Monoclea* Hook.

**MARCHANTIALES**

21. MARCHANTIACEAE  
*Marchantia* L.
22. RICCIACEAE  
*Riccia* L.

**ANTHOCEROTAE****ANTHOCEROTALES**

23. DENDROCEROTACEAE  
*Dendroceros* Nees
24. NOTOTHYLADACEAE  
*Notothylas* Sull.

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