

# Checklist of hornworts and liverworts of Fiji

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## Abstract

The first checklist of liverworts and hornworts is provided for the Republic of Fiji. Geographic coverage includes the islands Viti Levu, Vanua Levu, Taveuni, Kadavu, and Ovalau and surrounding smaller islands. There remain many localities in Fiji, including entire islands, which have never or scarcely been collected for this group of plants. We report 11 hornwort taxa and 280 liverwort taxa. An additional 34 taxa previously reported from Fiji are either rejected or noted as doubtful records. The list is based on a compilation of over 250 literature references, including monographs, broader regional studies and molecular investigations. Despite its apparent diversity, the liverwort and hornwort flora of Fiji has received negligible attention, and few publications exist that have focused solely on this group of islands. Knowledge of the liverwort and hornwort flora, of Fiji and regionally for the islands of the South Pacific, remains too poor to reliably comment about range-restricted or endemic species. New records will undoubtedly be reported, of regionally widespread species as well as species likely new to science. A number of the taxa presented here may be synonyms of other taxa as they are poorly known taxonomically. The combination, *Frullania parhamii* (R.M.Schust.) R.M.Schust. ex von Konrat, L.Söderstr. et A.Hagborg, is made replacing a previously invalid combination.

## Introduction

Conservation International identified all the islands of Micronesia and Polynesia, including the islands of Fiji, as the Polynesia-Micronesia hotspot, one of thirty-five biodiversity hotspots in the world (Mittermeier et al. 2005). Alarming, Conservation International recognised this hotspot as having one of the highest extinction rates in the world. In Fiji, many localities, including entire islands, currently have never or scarcely been collected for many plant groups (DoE 1997). von Konrat et al. (2011, this issue) provide an overview of the current state of floristic knowledge for Fijian liverworts and hornworts, as well as for lichenised fungi, mosses, ferns and lycophytes for the island group. Historically, very few publications have focused solely on collections from Fiji.

*Prodromus florum hepaticarum polynesiae* (Miller et al. 1983) remains a significant work that included Fiji, yet was largely an uncritical compilation of names and literature. We here present the first ever checklist of liverworts and hornworts for the islands of Fiji in an effort to further promote bryological research in the region, and provide a foundation for revisionary studies and floristic research. The checklist presented here provides the critical distinction between those names recorded in the literature as first hand reports where authors have cited specimens and those names that are apparently not based on cited specimens. This checklist fills a major gap in our knowledge of Fijian terrestrial plants. The significance of checklists is summarised by Söderström et al. (2007, 2008), including outlining the utility of checklists as powerful and important tools, and their applicability to taxonomy, systematics, and conservation. Undoubtedly, many new records will be reported for the Fijian islands. This is supported by the fact that at least 75 other liverwort and hornwort species occur on the nearby islands of Samoa alone as well as the report of Pócs et al. (2011, this issue) of 48 new taxa for the islands. In this checklist we report 291 taxa in 286 species as occurring on the Fijian islands. An additional 27 taxa are rejected from the flora of the islands and 7 are reported as doubtful records.

### Methodology and materials

In this checklist the taxa are arranged in alphabetic order. The list is in three parts, i) accepted reports, ii) doubtful, iii) excluded reports. Finally, for ease of reference, a list of all synonyms applied in the checklist or names of alternative use is given.

Each accepted taxon is qualified using a four level ranking system that indicates our level of confidence about a taxon's value. The coding convention is outlined in detail by von Konrat et al. (2010a) and the following provides a brief explanation:

- ? Problem with the taxon name and value. The taxon is invalid, illegitimate or 'orphaned' in a synonymised genus or species but its correct placement is unknown.
- \* Serious doubts. There are doubts about the value of the taxon. It can be that there are conflicting views without any substantial evidence in any direction, conflicting views with substantiating evidence supporting one or both positions, or there is evidence pointing towards synonymization but it is premature to do it.
- \*\* Knowledge problem. The taxon is not well known by the person evaluating it. It may be a newly described species or a species originally not well described and not restudied recently.
- \*\*\* Accepted. A good taxon as currently understood based on personal experience or on a convincing taxonomic revision. Nomenclature and/or taxonomic position may, however, be questioned, e.g. elements may be excluded from the taxon, but the taxon with the current type will still be accepted.

Additional notes are provided throughout explaining the scoring for individual taxa, especially for taxa that are denoted \*.

This checklist provides a critical distinction between names recorded in the literature as first hand reports, i.e. "A report citing a specimen or an observation of material either in the field 'and then locality fairly exact' or among collected specimens" (bold font) and second hand reports, i.e. "Merely citing a locality that is not exact enough to

be searched for the species, and not apparently based on a specimen that can be found” (regular font) (see von Konrat et al. 2010a). This will greatly aid further evaluation of these names for Fiji. Moreover, the list includes all types of Fijian origin.

In order to condense the list we use the words “both as” or “all as” to denote that the author used this name(s) in both/all publications by the same author. The word “also” indicates that the author(s) used the current accepted name in addition to another name.

Island abbreviations are as follows: Viti Levu (VI), Vanua Levu (VA), Taveuni (TA), Kadavu (KA), Ovalau (OV, including nearby smaller islands) and Lau group (LA). We make an attempt to order the reports by these provinces. The abbreviation FIJ is used for reports that are not specific enough to be allocated to an island.

### Nomenclatural novelty

*Frullania parhamii* (R.M.Schust.) R.M.Schust. ex von Konrat, L.Söderstr. et A.Hagborg, **comb. nov.**

Basionym: *Neohattoria parhamii* R.M.Schust. J. Hatt. Bot. Lab. 26: 243, 1963. Type: Summit of Mt Delaikoro (Ndelaikoro), south of Lambasa, Vanua Levu, Fiji, on bark in open rain forest, *R. M. Schuster* 56709, June 1962 (holotype, F).

Synonym: *Frullania parhamii* (R.M.Schust.) R.M.Schust. Hepat. Anthocerotae N. Amer. 5: 34, 1992, *nom. inval.* (Art. 33.4; basionym not cited; McNeill et al. 2006).

### Checklist of taxa accepted from Fiji

Current list includes all taxa that we accept as occurring in Fiji. However, the taxonomic value of some of them is questionable.

### Anthocerotophyta

#### *Dendroceros*

\*\*\* *D. cavernosus* J.Haseg. FIJ: Hasegawa 1986b, 2002. VI: Hasegawa 1986a.

\* <sup>1</sup>*D. crispatus* (Hook.) Nees VI: Campbell 1971, Miller et al. 1983.

\*\*\* *D. granulatus* Mitt. VI: Hasegawa 1986a.

\*\*\* *D. javanicus* (Nees) Nees FIJ: Hasegawa 1986b. VI: Gibbs 1909, Hürlimann 1960 as *Dendroceros pusillus*, Miller et al. 1983 also as *Dendroceros pusillus*, Hasegawa 1986a.

#### *Folioceros*

\*\*\* *F. amboinensis* (Schiffn.) Piippo FIJ: Hasegawa 1993 as *Anthoceros amboinensis*, Piippo 1993. VI: Hasegawa 1986a as *Folioceros spinisporus*.

<sup>1</sup> *Dendroceros crispatus* is treated as a synonym of *Dendroceros crispus* (Sw.) Nees by Gradstein & Costa (2003) but accepted as a species by J.C.Villarreal (pers. comm.).

- \*\*\* *F. fuciformis* (Mont.) D.C.Bharadwaj VI: **Campbell 1971** as *Anthoceros fuciformis*, Miller et al. 1983 as *Anthoceros fuciformis*.
- \*\*\* *F. glandulosus* (Lehm. et Lindenb.) D.C.Bharadwaj FII: Schiffner 1898 as *Anthoceros glandulosus*, Schiffner 1955 as *Aspiromitus glandulosus*, Hasegawa 2002 as *Anthoceros appendiculatus*. VI: **Schiffner 1890** as *Anthoceros glandulosus*, Miller et al. 1983 as *Anthoceros glandulosus*.
- \*\*\* *F. pinnilobus* (Steph.) D.C.Bharadwaj VI: **Hasegawa 1986a**.

### *Hattorioceros*

- \*\* *H. striatisporus* (J.Haseg.) J.Haseg. VI: **Hasegawa 2000**.

### *Megaceros*

- \*\*\* *M. flagellaris* (Mitt.) Steph. FII: Stephani 1916, Miller et al. 1983 as *Anthoceros flagellaris*. VI: **Gibbs 1909** as *Anthoceros flagellaris*, **Hürlimann 1960** as *Megaceros monospirus*, Miller et al. 1983 also as *Megaceros monospirus* Steph., **Hasegawa 1986a**.

### *Phaeoceros*

- \*\*\* *P. carolinianus* (Michx.) Prosk. FII: Hasegawa 1984 as *Phaeoceros laevis* subsp. *carolinianus*, Schuster 1992b as *Anthoceros laevis* subsp. *carolinianus*, Piippo 1993 as *Phaeoceros laevis* subsp. *carolinianus*, Guo & Zhang 1999 as *Phaeoceros laevis* subsp. *carolinianus*, Damsholt 2002 as *Phaeoceros laevis* subsp. *carolinianus*. VI: **Campbell 1971** as *Phaeoceros laevis* subsp. *carolinianus*, Miller et al. 1983 as *Phaeoceros laevis* subsp. *carolinianus*.

## Marchantiophyta

### *Acrolejeunea*

- \*\*\* *A. pycnoclada* (Taylor) Schiffn. FII: Mizutani 1978a, Bapna & Kachroo 2000b. VA: **Campbell 1971** as *Ptychocoleus pycnocladus*, Miller et al. 1983. VI: Miller et al. 1983.
- \*\*\* — subsp. *pycnoclada* (Taylor) Schiffn. KA: **Pócs et al. 2011**. VI: Gradstein 1975, **Hürlimann 1989**.

### *Aneura*

- \*\*\* *A. maxima* (Schiffn.) Steph. VA: **Campbell 1971** as *Riccardia maxima*, Miller et al. 1983 as *Riccardia maxima*. VI: **Gibbs 1909**, Miller et al. 1983 as *Riccardia maxima*.

### *Archilejeunea*

- \* <sup>2</sup> *A. bilabiata* (Mitt.) Steph. FII: **TYPE** of *Phragmicoma bilabiata*, **Mitten 1873** as *Phragmicoma bilabiata*, Stephani 1911, Bonner 1962b, **Thiers 1983** as *Phragmicoma bilabiata*, Miller et al. 1983 also as *Phragmicoma bilabiata*, **Geissler & Bischler 1989** as *Phragmicoma bilabiata*.

<sup>2</sup> *Archilejeunea bilabiata* is a doubtful species (type unknown) (Geissler & Gradstein 1994).

- \*\* *A. brachyantha* J.B.Jack et Steph. FII: Stephani 1911, Verdoorn 1934. OV: **TYPE**, Jack & Stephani 1894, Bonner 1962b, Campbell 1971, Miller et al. 1983. VA: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983.
- \*\*\* *A. planiuscula* (Mitt.) Steph. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VA: Campbell 1971 as *Archilejeunea mariana*, Miller et al. 1983 as *Spruceanthus marianus*. VI: Campbell 1971 as *Archilejeunea mariana*, Miller et al. 1983 as *Spruceanthus marianus*.

### *Bazzania*

- \*\* *B. caudistipula* (Steph.) Inoue et H.A.Mill. FII: Bonner 1977. VI: **TYPE** of *Mastigobryum caudistipulum*, Stephani 1908b as *Mastigobryum caudistipulum*, Inoue & Miller 1965, Miller et al. 1983 also as *Mastigobryum caudistipulum*, Meagher 2010.
- \*\* *B. combinata* (J.B.Jack et Steph.) Steph. VI: Gibbs 1909 as *Mastigobryum combinatum*, Miller et al. 1983.
- \*\*\* *B. erosa* (Reinw., Blume et Nees) Trevis. VI: Campbell 1971, Miller et al. 1983.
- \*\* *B. falcifolia* (Steph.) H.A.Mill. TA: Pócs et al. 2011.
- \*\* *B. hamatifolia* (Steph.) H.A.Mill. FII: **TYPE** of *Mastigobryum hamatifolium*, Miller et al. 1983 also as *Mastigobryum hamatifolium*.
- \*\* *B. insignis* (De Not.) Trevis. VI: Hürlimann 1985.
- \*\* *B. manillana* (Gottsche ex Steph.) S.Hatt. TA: Pócs et al. 2011.
- \*\* *B. paradoxa* (Sande Lac.) Steph. FII: Stephani 1897, Evans 1932, Kitagawa 1967, Piippo et al. 2002. VI: Jack & Stephani 1894 as *Mastigobryum paradoxum*, Miller et al. 1983 also as *Mastigobryum paradoxum*.
- \*\* *B. subacuta* (Mitt.) Steph. VI: Hürlimann 1985.
- \*\*\* *B. tridens* (Reinw., Blume et Nees) Trevis. FII: Stephani 1908a as *Mastigobryum australe*, Jovet-Ast 1951 as *Bazzania australe*, Kitagawa 1978 as *Bazzania australis*, Geissler & Bischler 1985 as *Mastigobryum australe*, Hürlimann 1985 as *Bazzania australis*. OV: **TYPE** of *Herpetium australe*, Montagne 1843 as *Herpetium australe*, Bonner 1965 as *Herpetium australe*, Campbell 1971, Miller et al. 1983. TA: Campbell 1971, Miller et al. 1983. VA: Campbell 1971, Miller et al. 1983, Miller et al. 1983 as *Bazzania australis*, *Mastigobryum australe* and *Herpetium australe*. VI: Campbell 1971, Kitagawa 1973a as *Bazzania australis*, Miller et al. 1983, Hürlimann 1985.
- \*\*\* *B. unциgera* (Reinw., Blume et Nees) Trevis. FII: Stephani 1908b as *Mastigobryum unциgerum*, Kitagawa 1967, 1978, Hattori 1975c, Bapna & Kachroo 2000. OV: Jack & Stephani 1894 as *Mastigobryum unциgerum*, Miller et al. 1983.
- \*\* *B. vitiana* Mitt. ex Steph. FII: **TYPE**, **TYPE** of *Mastigobryum vitiense*, Stephani 1908a as *Mastigobryum vitiense*, Bonner 1963a, Miller et al. 1983 as *Mastigobryum vitiense*. OV: Campbell 1971 as *Bazzania vitiensis*, Miller et al. 1983. VA: Campbell 1971 as *Bazzania vitiensis*, Miller et al. 1983. VI: Campbell 1971 as *Bazzania vitiensis*.
- \*\*\* *B. vittata* (Gottsche) Trevis. VI: Campbell 1971, Miller et al. 1983, Hürlimann 1985.

*Caudalejeunea*

- \*\*\* *C. reniloba* (Gottsche) Steph. FII: Miller et al. 1983 as *Lopholejeunea contractilis* and *Phragmicoma contractilis*, Bapna & Kachroo 2000b, Gradstein et al. 2002. OV: Jack & Stephani 1894 as *Caudalejeunea recurvistipula*, Campbell 1971, Miller et al. 1983. TA: Pócs et al. 2011. VA: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983, Mizutani 1988, Hürlimann 1989, Thiers & Gradstein 1989.

*Ceratolejeunea*

- \*\*\* *C. belangeriana* (Gottsche) Steph. FII: Hürlimann 1995. KA: Pócs et al. 2011. OV: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983.
- \*\*\* *C. vitiensis* Steph. FII: TYPE, Stephani 1913, Bonner 1963b. VI: Miller et al. 1983 [Viti Levu with a “?”].

*Cheilolejeunea*

- \*\* *C. ceylanica* (Gottsche) R.M.Schust. et Kachroo KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Campbell 1971 as *Pycnolejeunea ceylanica*, Miller et al. 1983, Hürlimann 1995.
- \*\* *C. cookiensis* (Steph.) R.M.Schust. et Kachroo FII: Mizutani 1972 as *Cheilolejeunea parkinsonii*. OV: TYPE of *Euosmolejeunea parkinsonii*, Stephani 1914 as *Euosmolejeunea parkinsonii*, Miller 1960 as *Euosmolejeunea parkinsonii*, Mizutani 1967 as *Cheilolejeunea parkinsonii*, Miller et al. 1983 also as *Euosmolejeunea parkinsonii*.
- \*\*\* *C. decursiva* (Sande Lac.) R.M.Schust. VI: Zhu & Lai 2005.
- \*\*\* *C. falsinervis* (Sande Lac.) R.M.Schust. et Kachroo FII: Thiers 1992a, Thiers 1992b, Yang & Lin 2008. VI: Campbell 1971 as *Pycnolejeunea falsinervis*, Miller et al. 1983.
- \*\* *C. gardneri* (Mitt.) Mizut. OV: Campbell 1971 as *Pycnolejeunea setifera*, Miller et al. 1983 as *Pycnolejeunea setifera*.
- \*\*\* *C. intertexta* (Lindenb.) Steph. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Hürlimann 1995.
- \*\*\* *C. lindenberghii* (Gottsche) Mizut. TA: Pócs et al. 2011.
- \*\* *C. meyeniana* (Nees, Lindenb. et Gottsche) R.M.Schust. et Kachroo FII: Thiers 1992a, 1992b, Pócs et al. 1994. OV: Jack & Stephani 1894 as *Archilejeunea meyeniana*, Campbell 1971 as *Pycnolejeunea meyeniana*, Miller et al. 1983 also as *Lejeunea meyeniana*.
- \*\* *C. occlusa* (Herzog) T.Kodama et N.Kitag. VI: Pócs et al. 2011.
- \*\*\* *C. trapezia* (Nees) R.M.Schust. et Kachroo FII: Zhu & Grolle 2004. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Campbell 1971 as *Pycnolejeunea trapezia*, Miller et al. 1983.
- \*\*\* *C. trifaria* (Reinw., Blume et Nees) Mizut. KA: Pócs et al. 2011. OV: Jack & Stephani 1894 as *Euosmolejeunea partiicola* [“*paritiicola*”], Miller et al. 1983 also as *Euosmolejeunea partiicola*. VI: Campbell 1971 as *Euosmolejeunea trifaria*, Miller et al. 1983, Hürlimann 1995.

**Chiastocaulon**

- \*\*\* *C. dendroides* (Nees) Carl FII: Stephani 1903a as *Plagiochila dendroides*, Jovet-Ast 1951, Bonner 1963b, Inoue 1984, 1986 both as *Plagiochila dendroides*, Piippo 1989a as *Plagiochila dendroides*. VI: Inoue 1970, Hürlimann 1974, Miller et al. 1983.

**Chiloscyphus**

- \*\* *C. graeffeanus* Steph. OV: TYPE, Stephani 1922 ["Oahu"], Bonner 1963b, Miller et al. 1983.
- \*\*\* *C. muricatus* (Lehm.) J.J.Engel et R.M.Schust. FII: Frye & Clark 1944 as *Lophocolea muricata*, Schuster 1980b as *Lophocolea muricata*. VI: Gibbs 1909 as *Lophocolea muricata*, Miller et al. 1983 as *Lophocolea muricata*, Hürlimann 1998 as *Lophocolea muricata*.
- \*\* *C. parvus* (Steph.) J.J.Engel et R.M.Schust. FII: Hürlimann 1998 as *Lophocolea parva*. VA: Campbell 1971 as *Lophocolea parva*, Miller et al. 1983 as *Lophocolea parva*. VI: Campbell 1971 as *Lophocolea parva*, Miller et al. 1983 as *Lophocolea parva*.
- \*\* *C. samoanus* J.J.Engel et R.M.Schust. TA: Campbell 1971 as *Lophocolea rectangulata*. VI: Campbell 1971 as *Lophocolea rectangulata*, Miller et al. 1983 as *Lophocolea rectangulata*.

**Cololejeunea**

- \*\*\* *C. aequabilis* (Sande Lac.) Schiffn. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\*\* *C. amphibola* B.M.Thiers TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\*\* *C. angustiflora* (Steph.) Mizut. TA: Pócs et al. 2011.
- \*\*\* *C. cardiocarpa* (Mont.) A.Evans VI: Pócs et al. 2011.
- \*\* *C. ceatocarpa* (Ångstr.) Steph. TA: Pócs et al. 2011. VI: Hürlimann 1987.
- \*\*\* *C. cocoscola* Tixier KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\* *C. cordiflora* Steph. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \* <sup>3</sup>*C. decliviloba* Steph. TA: Campbell 1971, Miller et al. 1983.
- \*\*\* *C. diaphana* A.Evans TA: Pócs et al. 2011.
- \*\*\* *C. equialbi* Tixier KA: Pócs et al. 2011. TA: Pócs et al. 2011.
- \*\*\* *C. falcata* (Horik.) Benedix TA: Pócs et al. 2011. VA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\*\* *C. floccosa* (Lehm. et Lindenb.) Schiffn. FII: Pócs & Streimann 1999 [referring to Miller et al. 1983 who do not report it from Fiji]. TA: Pócs et al. 2011.
- \*\* *C. haskarliana* (Lehm.) Schiffn. var. *haskarliana* TA: Pócs et al. 2011. VI: Hürlimann 1987 as *Cololejeunea hispidissima*.
- \*\* *C. hildebrandii* (Austin) Steph. TA: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983.

<sup>3</sup> *Cololejeunea decliviloba* is taxonomically doubtful and most likely should be placed in synonymy (Söderström et al. 2010).

- \*\* *C. hirta* Steph. TA: Pócs et al. 2011.
- \*\*\* *C. huerlimannii* Tixier TA: Pócs et al. 2011.
- \*\*\* *C. inflectens* (Mitt.) Benedix KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \* <sup>4</sup> *C. kapingaensis* H.A.Mill. VI: Pócs et al. 2011.
- \*\*\* *C. kulenensis* Tixier KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\* *C. lanciloba* Steph. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\* *C. latilobula* (Herzog) Tixier KA: Pócs et al. 2011.
- \*\*\* *C. longifolia* (Mitt.) Benedix ex Mizut. VI: Pócs et al. 2011.
- \*\*\* *C. metzgeriopsis* (K.I.Goebel) Gradst., R.Wilson, Ilk.-Borg. et Heinrichs FII: Eggers 2006 as *Metzgeriopsis pusilla*, Eggers & Pócs 2010. TA: Campbell 1971 as *Metzgeriopsis pusilla*, Miller et al. 1983 as *Metzgeriopsis pusilla*. VI: Schuster 1969 as *Metzgeriopsis pusilla*, Campbell 1971 as *Metzgeriopsis pusilla*, Miller et al. 1983 as *Metzgeriopsis pusilla*, Gradstein et al. 2006.
- \*\*\* *C. minutissima* (Sm.) Schiffn. VI: Hürlimann 1987.
- \*\*\* *C. obliqua* (Nees et Mont.) Schiffn. TA: Pócs et al. 2011. VI: Campbell 1971 as *Cololejeunea nymannii*, Miller et al. 1983 as *Cololejeunea nymannii*.
- \* <sup>5</sup> *C. paucimarginata* Tixier TA: Pócs et al. 2011.
- \*\*\* *C. peraffinis* (Schiffn.) Schiffn. FII: Hürlimann 1987 [incl. *C. ocelloides*], Pócs et al. 1994, Zhu & So 2001. OV: Campbell 1971. TA: Campbell 1971. VI: Campbell 1971.
- \*\* — var. *peraffinis* FII: Pócs & Streimann 1999. OV: Miller et al. 1983 [incl. *C. ocellata* and *C. ocelloides*]. TA: Miller et al. 1983 [incl. *C. ocellata* and *C. ocelloides*]. VI: Miller et al. 1983 [incl. *C. ocellata* and *C. ocelloides*].
- \*\* *C. polyantha* (Steph.) H.A.Mill. FII: SYNTYPE of *Lejeunea polyantha*, Mitten 1873 as *Lejeunea polyantha*, Stephani 1916 as *Physocolea polyantha*, Thiers 1983 as *Lejeunea polyantha*, Miller et al. 1983 also as *Physocolea polyantha* and *Lejeunea polyantha*, Geissler & Bischler 1985 as *Leptocolea vitiensis*, 1987 as *Lejeunea polyantha*, 1989 as *Physocolea polyantha*, Tixier 1985. TA: Campbell 1971 as *Leptocolea vitiensis*, Miller et al. 1983 as *Leptocolea vitiensis* and *Cololejeunea vitiensis*. VI: Campbell 1971 as *Leptocolea vitiensis*, Miller et al. 1983 as *Cololejeunea vitiensis* and *Leptocolea vitiensis*.
- \*\*\* *C. pseudoserrata* Tixier TA: Pócs et al. 2011.
- \*\*\* *C. raduliloba* Steph. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\*\* *C. schmidtii* Steph. TA: Pócs et al. 2011. VI: Pócs et al. 2011.

<sup>4</sup> *Cololejeunea kapingaensis* is treated as a new synonym of *Cololejeunea planissima* (Mitt.) Abeyw. (widespread in east and south-east Asia and Micronesia) by Inoue & Iwatsuki (1969) but Pócs et al. (2011) recognise it.

<sup>5</sup> *C. paucimarginata* may be a form of *C. raduliloba* (Söderström et al. 2010), but Pócs et al. (2011) recognise it.



- \*\*\* *C. simtenisii* (Steph.) Pócs VI: Pócs et al. 2011.
- \*\*\* *C. societatis* Tixier TA: Pócs et al. 2011.
- \*\*\* *C. stylosa* (Steph.) Steph. ex Mizut. VI: Pócs et al. 2011.
- \*\* *C. trichomanis* (Gottsche) Steph. FII: Pócs & Ninh 2005. VA: Campbell 1971 as *Leptocolea goebelii*, Miller et al. 1983 as *Cololejeunea goebelii* and *Leptocolea goebelii*. VI: Campbell 1971 as *Leptocolea goebelii*, Miller et al. 1983 as *Leptocolea goebelii*.
- \*\* *C. tridentata* Tixier TA: Pócs et al. 2011.
- \*\* *C. veillonii* Tixier VI: Hürlimann 1987.
- \*\*\* *C. wightii* Steph. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Pócs et al. 2011.

### *Colura*

- \*\*\* *C. acroloba* (Mont. ex Steph.) Ast FII: Gradstein et al. 2006, Wilson et al. 2007. VI: Pócs et al. 2011.
- \*\*\* *C. ari* (Steph.) Steph. FII: Hürlimann 1987, Zhu & So 2001, Eggers 2006, Eggers & Pócs 2010. OV: Campbell 1971, Miller et al. 1983. TA: Campbell 1971, Miller et al. 1983, Pócs & Eggers 2007. VI: Campbell 1971, Miller et al. 1983.
- \*\*\* *C. brevistyla* Herzog TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\*\* *C. conica* (Sande Lac.) K.I.Goebel FII: Hürlimann 1987, Pócs & Streimann 1999, Zhu & So 2001. OV: Campbell 1971 as *Colura acutifolia*, Miller et al. 1983. TA: Pócs & Eggers 2007. VI: Pócs & Eggers 2007.
- \*\*\* *C. corynophora* (Nees, Lindenb. et Gottsche) Trevis. FII: Zhu & So 2001. TA: Campbell 1971, Miller et al. 1983. VI: Jovet-Ast 1954, Campbell 1971, Miller et al. 1983.
- \*\*\* *C. crispiloba* Ast VI: Pócs & Eggers 2007.
- \*\*\* *C. cristata* Ast KA: Pócs & Eggers 2007.
- \*\* <sup>6</sup>*C. imperfecta* Steph. FII: Gradstein et al. 2006, Wilson et al. 2007.
- \*\*\* *C. leratii* (Steph.) Steph. FII: SYNTYPE of *Lejeunea apiculata*, Schiffner 1890 as *Lejeunea apiculata*, Bonner 1963b as *Colurolejeunea apiculata*, Miller et al. 1983 also as *Colura apiculata* and *Lejeunea apiculata*, Geissler & Bischler 1987 as *Lejeunea superba* var. *apiculata*, Hürlimann 1987. TA: Pócs & Eggers 2007. VI: Pócs & Eggers 2007.
- \*\*\* *C. pluridentata* Ast VI: Campbell 1971, Miller et al. 1983, Pócs & Eggers 2007.
- \*\*\* *C. queenslandica* B.M.Thiers VI: Pócs & Eggers 2007.
- \*\*\* *C. superba* (Mont.) Steph. FII: Mitten 1873 as *Lejeunea superba*, Miller et al. 1983. VI: Hürlimann 1987.
- \*\*\* *C. tenuicornis* (A.Evans) Steph. VI: Pócs et al. 2011.
- \*\*\* *C. vitiensis* Pócs et J.Eggers FII: TYPE, von Konrat et al. 2010b. TA: Pócs & Eggers 2007. VI: Pócs & Eggers 2007.

<sup>6</sup> *Colura imperfecta* is very close to *C. leratii* (Söderström et al. 2010).

**Conoscyphus**

\*\*\* *C. trapezioides* (Sande Lac.) Schiffn. VI: Hürlimann 1998.

**Cuspidatula**

\*\*\* *C. contracta* (Reinw., Blume et Nees) Steph. FII: Stephani 1897 as *Anastrophyllum vitiense*, Schiffner 1898, 1900 both as *Anastrophyllum contractum*, Bonner 1963b as *Cuspidatula vitiensis*, Grolle 1969 as *Cuspidatula vitiensis*, 1971, Bizot & Pócs 1974, Váňa & Piippo 1989b as *Jamesoniella contracta*, Váňa 1991b as *Jamesoniella contracta*, Schuster 2002. VI: **TYPE** of *Anastrophyllum vitiense*, **Jack & Stephani 1894** as *Anastrophyllum vitiense*, **Stephani 1901** as *Cuspidatula vitiensis*, **Bonner 1962b** as *Anastrophyllum vitiense*, **Hürlimann 1974**, Miller et al. 1983 also as *Anastrophyllum vitiense* and *Cuspidatula vitiensis*.

**Dendrolejeunea**

\*\*\* *D. fruticosa* (Lindenb. et Gottsche) Lacout. FII: Verdoorn 1934 as *Thysananthus fruticosus*, Miller et al. 1983 as *Dendrolejeunea vittata*. VI: **Jack & Stephani 1894** as *Thysanolejeunea fruticosa*, Miller et al. 1983 as *Thysananthus fruticosus*.

**Denotarisia**

\*\*\* *D. linguifolia* (De Not.) Grolle FII: Schiffner 1898 as *Jamesoniella ovifolia* and *Anastrophyllum graeffei*, **Stephani 1901** as *Jamesoniella ovifolia*, Grolle 1968 as *Jamesoniella ovifolia*, 1971, Váňa & Piippo 1989b, Váňa 1991b, Schuster 2002. Ov: **TYPE** of *Anastrophyllum graeffei*, **Jack & Stephani 1894** as *Anastrophyllum graeffei*, **Bonner 1962b** as *Anastrophyllum graeffei*, Miller et al. 1983 also as *Jamesoniella ovifolia* and *Anastrophyllum graeffei*. VI: **Hürlimann 1989**.

**Diplasiolejeunea**

\*\*\* *D. cavifolia* Steph. TA: Pócs et al. 2011. VI: **Campbell 1971** as *Diplasiolejeunea brachyclada*, Miller et al. 1983.

**Drepanolejeunea**

\*\*\* *D. angustifolia* (Mitt.) Grolle VI: **Hürlimann 1995**.

\*\*\* *D. dactylophora* (Nees, Lindenb. et Gottsche) Schiffn. VI: **Campbell 1971**, Miller et al. 1983.

\* <sup>7</sup> *D. serricalyx* Herzog FII: Pócs et al. 1994. VI: **Campbell 1971**, Miller et al. 1983.

\* <sup>8</sup> *D. tenera* K.I.Goebel FII: **Hürlimann 1995**. VI: **Campbell 1971**, Miller et al. 1983.

\*\*\* *D. ternatensis* (Gottsche) Spruce ex Schiffn. FII: Mizutani 1978a, 1978b, Udar & Awasthi 1982 as *Drepanolejeunea ternatensis* var. *ternatensis*, Miller et al. 1983 as *Drepanolejeunea uncinata*, Hürlimann 1995 as *Drepanolejeunea ternatensis* var. *lancispina*, Bapna & Kachroo 2000b as *Drepanolejeunea ternatensis* var. *ternatensis*. Ov: **Jack & Stephani 1894**, **Herzog 1939** as *Drepanolejeunea ternatensis* var. *ternatensis*, Miller et al. 1983 as *Drepanolejeunea ternatensis* var. *ternatensis*. VI:

<sup>7</sup> *Drepanolejeunea serricalyx* is doubtfully distinct from *D. thwaitesiana* (Mitt.) Steph. which is widespread in SE Asia (Söderström et al. 2010).

<sup>8</sup> *Drepanolejeunea tenera* is doubtfully distinct from *D. pentadactyla* (Mont.) Steph. which is widespread in the Paleotropics and reported from many areas in the Pacific, but not yet from Fiji (Söderström et al. 2010).

Campbell 1971 as *Drepanolejeunea ternatensis* var. *lancispina*, Miller et al. 1983 as *Drepanolejeunea ternatensis* var. *lancispina* and var. *ternatensis*, Hürlimann 1995 as *Drepanolejeunea ternatensis* var. *ternatensis*.

\*\* *D. tricornua* Herzog TA: Pócs et al. 2011.

\*\*\* *D. vesiculosa* (Mitt.) Steph. VI: Campbell 1971, Miller et al. 1983.

### *Dumortiera*

\*\*\* <sup>9</sup>*D. hirsuta* (Sw.) Nees FII: Mitten 1873 as *Dumortiera trichocephala*, Miller et al. 1983 as *Dumortiera trichocephala*. OV: Schiffner 1890. TA: Campbell 1971, Miller et al. 1983 as *Dumortiera hirsuta* var. *hirsuta*. VI: Gibbs 1909 as *Dumortiera trichocephala* and *Dumortiera velutina*, Campbell 1971, Miller et al. 1983 as *Dumortiera hirsuta* var. *hirsuta*.

### *Frullania*

\*\* *F. ampullifera* J.B.Jack et Steph. FII: Koike 1994, Hentschel et al. 2009. KA: TYPE, Jack & Stephani 1894, Stephani 1894, 1910, Bonner 1965, Pócs 2008b. OV: Verdoorn 1930, Hattori 1981, Miller et al. 1983, Pócs 2008b. TA: Pócs 2008b. VI: Campbell 1971, Miller et al. 1983, Hattori 1985, Pócs 2008b.

\*\* *F. angustistipa* Steph. KA: Pócs 2008b as *Frullania angulistipa*.

\*\*\* *F. apiculata* (Reinw., Blume et Nees) Nees FII: Hentschel et al. 2009. KA: Pócs 2008b. OV: Jack & Stephani 1894, Campbell 1971. TA: Verdoorn 1937, Pócs 2008b. VI: Hattori 1985.

\*\* — var. *apiculata* FII: Mitten 1873 as *Frullania pacificae* ["*pacifica*"], Stephani 1897, 1916 both as *Frullania pacificae*. OV: Miller et al. 1983. TA: Miller et al. 1983. VI: Miller et al. 1983 also as *Frullania pacificae*.

\*\* — var. *goebelii* Schiffn. OV: Campbell 1971, Miller et al. 1983. TA: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983.

\*\*\* *F. arecae* (Spreng.) Gottsche var. *arecae* FII: Yuzawa 1991.

\*\* *F. auriculata* S.Hatt. FII: Pócs 2008b. VI: TYPE, Hattori 1985, Engel 1992, Crosby & Engel 2006.

\*\* *F. baladina* Gottsche ex Steph. FII: Hentschel et al. 2009. KA: Pócs 2008b. VI: Pócs 2008b.

\*\* *F. capillaris* Steph. FII: Pócs 2008b. VI: Hattori 1985.

\*\*\* *F. chevalieri* (R.M.Schust.) R.M.Schust. TA: Pócs 2008b.

\*\*\* *F. cordistipula* (Reinw., Blume et Nees) Dumort. FII: Mitten 1862.

\*\* *F. deflexa* Mitt. FII: TYPE, TYPE of *Frullania pendula*, Mitten 1862, Austin 1872 as *Frullania pendula*, Mitten 1873, Stephani 1911, 1916, Verdoorn 1930, Bonner 1965 also as *Frullania pendula*, Hattori 1977, 1980, 1986a, Thiers 1983, Miller et al. 1983 as *Frullania pendula*. OV: TYPE of *Frullania varians*, Jack & Stephani 1894, Bonner 1965 as *Frullania varians*, Miller et al. 1983 also as *Frullania varians*. TA: Hattori 1980, Miller et al. 1983. VA: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Hattori 1980, 1985, Miller et al. 1983, Pócs 2008b.

<sup>9</sup> *Dumortiera hirsuta* is a variable species and recent studies (N.Salazar-Allen, pers. comm. 2009) indicate that more than one taxon may be involved. The most commonly recognised infrataxon is subsp. *nepalensis* (Taylor) R.M.Schust. and this is also reported from Fiji, but the taxonomy needs clarification.

- \*\* *F. epiphylla* S.Hatt. subsp. *fijiensis* S.Hatt. FII: Pócs 2008b. VI: TYPE, Hattori 1985, Engel 1992, Crosby & Engel 2006.
- \*\*\* *F. ericoides* (Nees) Mont. FII: Stephani 1910 as *Frullania vesiculosa*, Bonner 1965 as *Frullania vesiculosa*, Miller et al. 1983 as *Frullania vesiculosa*. VI: Miller et al. 1983 as *Frullania squarrosa* [Viti Levu with a “?”], Pócs 2008b.
- \*\*\* *F. gaudichaudii* (Nees et Mont.) Nees et Mont. FII: Hentschel et al. 2009. KA: Pócs 2008b. TA: Verdoorn 1937, Campbell 1971, Miller et al. 1983, Pócs 2008b. VA: Campbell 1971, Miller et al. 1983. VI: Hattori 1985, Hattori 1986a.
- \*\*\* *F. gracilis* (Reinw., Blume et Nees) Gottsche, Lindenb. et Nees TA: Pócs 2008b.
- \*\* *F. immersa* Steph. FII: Pócs 2008b. VA: Verdoorn 1937, Campbell 1971, Miller et al. 1983. VI: Campbell 1971 as *Frullania rechingeri*, Miller et al. 1983 also as *Frullania rechingeri*, Hattori 1985, 1986a.
- \*\*\* *F. intermedia* (Reinw., Blume et Nees) Dumort. FII: Clark & Frye 1948, Verdoorn 1930, Bonner 1965, Inoue & Miller 1965, Bapna & Kachroo 2000b, Hentschel et al. 2009. KA: Verdoorn 1937, Miller et al. 1983. OV: Miller et al. 1983. TA: Miller et al. 1983. VI: Miller et al. 1983.
- \*\* — subsp. *intermedia* FII: TYPE of *Frullania stellatitexta*, Stephani 1911 as *Frullania stellatitexta*, *Frullania angulosa* and *Frullania khedingiana* [“*kehdingiana*”], Verdoorn 1930 as *Frullania angulosa* and *Frullania stellatitexta*, Bonner 1965 as *Frullania khedingiana* [“*kedingiana*”] and *Frullania angulosa* Mitt. KA: Campbell 1971 as *Frullania intermedia* f. *intermedia*. OV: Verdoorn 1928 as *Frullania angulosa*, Bonner 1965 as *Frullania stellatitexta*, Hattori 1980, Miller et al. 1983 as *Frullania stellatitexta*. TA: Hattori 1980. VI: Campbell 1971 as *Frullania intermedia* f. *intermedia*, Campbell 1971 as *Frullania intermedia* f. *billardieriana*, Hattori 1980, 1985, Miller et al. 1983 as *Frullania intermedia* f. *billardieriana*.
- \*\* — var. *uou-apiculata* S.Hatt. FII: Hattori & Streimann 1985, Hattori 1986a. TA: Pócs 2008b. VI: Hattori 1985.
- \*\*\* *F. meyeniana* Lindenb. FII: Hentschel et al. 2009.
- \*\*\* *F. neurota* Taylor FII: Pócs 2008b. VI: Campbell 1971, Miller et al. 1983.
- \*\*\* *F. nodulosa* (Reinw., Blume et Nees) Nees FII: Mitten 1873, Schiffner 1898, Hentschel et al. 2009. LA: Hattori 1980 as *Frullania nodulosa* var. *nodulosa*, Miller et al. 1983. VA: Hattori 1980 as *Frullania nodulosa* var. *nodulosa*. VI: TYPE of *Frullania inflatistipula*, Jack & Stephani 1894, Verdoorn 1937, Bonner 1965 as *Frullania inflatistipula*, Campbell 1971, Hattori 1980 as *Frullania nodulosa* var. *nodulosa*, 1985, Miller et al. 1983 also as *Frullania inflatistipula*, Pócs 2008b.
- \*\* *F. uovocurvirostris* S.Hatt. FII: Bonner 1965 as *Frullania curvirostris*, Hattori 1984, 1986a. KA: Pócs 2008b. OV: TYPE of *Frullania curvirostra*, Jack & Stephani 1894 as *Frullania curvirostris*, Stephani 1894 as *Frullania curvirostris*, 1910 as *Frullania curvirostris* and *Frullania curvirostra*., Bonner 1965 as *Frullania curvirostra*, Campbell 1971 as *Frullania curvirostris*, Hattori 1981, Miller et al. 1983 also as *Frullania curvirostris*, Pócs 2008b. VI: Campbell 1971 as *Frullania curvirostris*, Miller et al. 1983 also as *Frullania curvirostris*, Hattori 1985.

- \*\* *F. parhamii* (R.M.Schust.) R.M.Schust. ex von Konrat, L.Söderstr. et A.Hagborg FII: Schuster 1964, 1969 both as *Neohattoria parhamii*, Hattori et al. 1977, 1986a both as *Schusterella parhamii*, Geissler & Bischler 1990 as *Schusterella parhamii*, Pócs 2008b, Hentschel et al. 2009. VA: TYPE of *Neohattoria parhamii*, Schuster 1963, 1970 both as *Neohattoria parhamii*, Hattori et al. 1972 as *Schusterella parhamii*, Miller et al. 1983 as *Schusterella parhamii* and *Neohattoria parhamii*, Geissler & Bischler 1989 as *Neohattoria parhamii*, von Konrat et al. 2006 as *Neohattoria parhamii*.
- \*\*\* *F. ramuligera* (Nees) Mont. FII: Hattori & Lin 1985 [with a “?”], Bai 2002. VI: Campbell 1971, Miller et al. 1983.
- \* <sup>10</sup> *F. serrata* Gottsche FII: TYPE of *Frullania grossispica*, TYPE of *Frullania meteoroides*, Mitten 1862, 1873 both as *Frullania meteoroides*, Stephani 1897 as *Frullania meteoroides*, 1911 as *Frullania meteoroides* and *Frullania grossispica*, 1916 as *Frullania meteoroides*, Verdoorn 1930, Bonner 1965 as *Frullania grossispica* and *Frullania meteoroides*, Hattori 1973, Thiers 1983 as *Frullania meteoroides*, Miller et al. 1983 as *Frullania meteoroides*, Pócs 2008b, Singh et al. 2008. OV: Jack & Stephani 1894 as *Frullania meteoroides*, Miller et al. 1983. VI: Verdoorn 1937, Campbell 1971, Miller et al. 1983 also as *Frullania grossispica* [Viti Levu with a “?”], Hattori 1985.
- \*\*\* *F. ternatensis* Gottsche FII: Hattori 1982, Hattori & Streimann 1985, Hattori & Piippo 1986. TA: Pócs 2008b. VI: Hattori 1975b, Miller et al. 1983, Pócs 2008b.
- \*\* — var. *non-appendiculata* S.Hatt. FII: Hattori 1988. VI: Hattori 1985.
- \*\* — var. *ternatensis* FII: Hattori 1985.
- \*\* *F. trichodes* Mitt. FII: TYPE, Mitten 1862, 1873, Bonner 1965, Thiers 1983, Hattori & Piippo 1986, Hattori 1988. KA: Pócs 2008b. VI: Miller et al. 1983 [Viti Levu with a “?”], Hattori 1985 as *Frullania vethii*, Pócs 2008b.
- \*\* *F. vaga* Mitt. FII: TYPE, Mitten 1873, Stephani 1911, Verdoorn 1930, Bonner 1965, Hattori 1986b, Pócs 2008b. VI: Miller et al. 1983 [Viti Levu with a “?”].
- \*\* *F. vivipara* Pócs FII: von Konrat et al. 2010b. KA: TYPE, Pócs 2008b.

### *Harpalejeunea*

- \*\*\* *H. filicuspis* (Steph.) Mizut. FII: Grolle 1979. KA: Pócs et al. 2011. OV: Campbell 1971 as *Drepanolejeunea riddleana*, Miller et al. 1983 as *Drepanolejeunea riddleana* and *Drepanolejeunea filicuspis*. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \* <sup>11</sup> *H. vitrea* Herzog VA: TYPE, Herzog 1951a, Miller et al. 1983, Grolle & Reiner-Drehwald 1999.

<sup>10</sup> *Frullania serrata* is probably conspecific with *F. cordistipula*. The two differ only by the degree of dentation of the female bracts (Söderström et al. 2010).

<sup>11</sup> *Harpalejeunea vitrea* is a *Lejeunea* sp. (non *L. vitrea* Nees et al.) according to Grolle & Reiner-Drehwald (1999).

**Herbertus**

- \*\* *H. longifissus* Steph. VI: Miller 1968 also as *Herbertus tutuilanus*, Miller et al. 1983 also as *Herbertus tutuilanus*.

**Heteroscyphus**

- \*\*\* *H. argutus* (Reinw., Blume et Nees) Schiffn. FII: Mitten 1861 as *Chiloscyphus argutus*, Stephani 1897 as *Chiloscyphus argutus*, Piippo 1985. OV: Jack & Stephani 1894 as *Chiloscyphus argutus*, Miller et al. 1983. VA: Campbell 1971, Miller et al. 1983. VI: Gibbs 1909 as *Chiloscyphus argutus*, Campbell 1971, Miller et al. 1983.
- \* — var. *argutus* FII: Mitten 1873 as *Chiloscyphus endlicherianus*.
- \*\*\* *H. aselliformis* (Reinw., Blume et Nees) Schiffn. FII: SYNTYPE of *Chiloscyphus confluens*, Mitten 1873 as *Chiloscyphus confluens*, Stephani 1897, 1916 both as *Chiloscyphus confluens*, Bonner 1963b as *Chiloscyphus confluens*, Grolle 1965 as *Chiloscyphus aselliformis*, Kitagawa 1979, 1981 both as *Chiloscyphus aselliformis*, Grolle 1980, Thiers 1983 as *Chiloscyphus confluens*, Piippo 1985, 1989b, Hürlimann 1998, Yamada & Hayashi 2003. OV: Jack & Stephani 1894 as *Chiloscyphus confluens*, Campbell 1971 as *Heteroscyphus confluens*, Miller et al. 1983 as *Heteroscyphus confluens*. VI: Campbell 1971, Miller et al. 1983 also as *Chiloscyphus aselliformis*, Hürlimann 1998.
- \*\*\* *H. coalitus* (Hook.) Schiffn. FII: Piippo 1985. VI: Campbell 1971 as *Heteroscyphus communis*, Miller et al. 1983 as *Heteroscyphus communis* and *Chiloscyphus communis*.
- \*\* *H. graeffei* (J.B.Jack et Steph.) Grolle FII: Stephani 1897 as *Lophocolea graeffei*, Engel & Schuster 1985 ad *Chiloscyphus graeffei*. OV: Campbell 1971 as *Lophocolea graeffei*, Miller et al. 1983 as *Lophocolea graeffei*. VI: SYNTYPE of *Lophocolea graeffei*, Jack & Stephani 1894 as *Lophocolea graeffei*, Campbell 1971 as *Lophocolea graeffei*, Miller et al. 1983 as *Lophocolea graeffei*, Geissler & Bischler 1985 as *Lophocolea graeffei*.
- \*\*\* *H. succulentus* (Gottsche) Schiffn. FII: Miller et al. 1983 as *Heteroscyphus concinnus*. TA: Campbell 1971 as *Heteroscyphus concinnus*, Miller et al. 1983 also as *Chiloscyphus succulentus*.

**Hymenophyton**

- \*\*\* *H. flabellatum* (Labill.) Dumort. ex Trevis. FII: Evans 1925, Arnell 1958, Schuster 1969, Miller et al. 1983, Furuki 2002, Pfeiffer 2000.

**Jamesoniella**

- \*\*\*<sup>12</sup> *J. flexicaulis* (Nees) Schiffn. FII: Mitten 1873 as *Jungermannia flexicaulis*, Miller et al. 1983 as *Crossogyna flexicaulis*. VA: Campbell 1971. VI: Campbell 1971, Hürlimann 1974.

**Jubula**

- \*\* *J. hutchinsiae* (Steph.) Verd. subsp. *javanica* (Steph.) Verd. VI: Campbell 1971, Miller et al. 1983.

<sup>12</sup> The genus *Jamesoniella* was transferred to *Syzygiella* and *Cuspidatula* by Feldberg et al. (2010) but *J. flexicaulis* was not included in their study and they did not transfer it.

**Kurzia**

- \*\*\* *K. gonyotricha* (Sande Lac.) Grolle VA: Pócs et al. 2011.

**Lejeunea**

- \*\*\* *L. alata* Gottsche TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\*\* *L. anisophylla* Mont. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\* *L. apiculata* Sande Lac. VI: Pócs et al. 2011.
- \*\*\* *L. capensis* Gottsche FII: Schuster 1984 as *Lejeunea caespitosa*, Hürlimann 1993 as *Lejeunea caespitosa*. VI: Jones 1972 as *Lejeunea caespitosa*, Schuster 1980b as *Lejeunea caespitosa*, Miller et al. 1983 as *Lejeunea caespitosa*.
- \*\* *L. caviloba* (Steph.) Steph. ex Besch. VI: Hürlimann 1993.
- \*\* *L. cocoes* Mitt. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\* *L. crassiretis* Mitt. FII: TYPE, Mitten 1873, Stephani 1915, Thiers 1983, Geissler & Bischler 1987. VI: Campbell 1971, Miller et al. 1983.
- \*\* *L. cuculliflora* (Steph.) Mizut. FII: Stephani 1896, 1914 both as *Taxilejeunea cuculliflora*, Mizutani 1978a, Geissler & Bischler 1987, 1990 as *Taxilejeunea cuculliflora*, Hürlimann 1995. OV: TYPE of *Taxilejeunea cuculliflora*, Eifrig 1937 as *Taxilejeunea cuculliflora*, Mizutani 1976, Grolle 1979, Miller et al. 1983 also as *Taxilejeunea cuculliflora*, Grolle 1988. VA: Campbell 1971 as *Taxilejeunea cuculliflora*, Miller et al. 1983 also as *Taxilejeunea cuculliflora*. VI: Campbell 1971 as *Taxilejeunea cuculliflora*, Miller et al. 1983 also as *Taxilejeunea cuculliflora*.
- \*\*\* *L. discreta* Lindenb. TA: Pócs et al. 2011. VI: Hürlimann 1993.
- \*\*\* *L. exilis* (Reinw., Blume et Nees) Grolle TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\*\* *L. flava* (Sw.) Nees FII: Mitten 1873 as *Lejeunea uvifera*, Stephani 1897 as *Euosmolejeunea uvifera*, Miller et al. 1983 as *Euosmolejeunea uvifera*. OV: Campbell 1971, Miller et al. 1983. TA: Pócs et al. 2011. VI: Campbell 1971, Miller et al. 1983.
- \*\* — subsp. *orientalis* R.M.Schust. VI: Hürlimann 1993.
- \*\* *L. gracilipes* (Taylor) Spruce TA: Campbell 1971 as *Taxilejeunea gracilipes*, Miller et al. 1983 also as *Taxilejeunea gracilipes*. VA: Campbell 1971 as *Taxilejeunea gracilipes*, Miller et al. 1983 also as *Taxilejeunea gracilipes*. VI: Campbell 1971 as *Taxilejeunea gracilipes*, Miller et al. 1983 also as *Taxilejeunea gracilipes*.
- \*\*\* *L. lumbricoides* (Nees) Nees OV: TYPE of *Hygrolejeunea graeffeana* ["Samoa, Ovalau"], Stephani 1914 as *Hygrolejeunea graeffeana* ["Samoa, Ovalau"], Eifrig 1937 as *Taxilejeunea lumbricoides*, Bonner 1966 as *Hygrolejeunea graeffeana* ["Samoa, Ovalau"], Grolle & Schultze-Motel 1973, Miller et al. 1983 also as *Hygrolejeunea graeffeana*. VI: Hürlimann 1993.
- \*\* *L. nicholitzii* Mizut. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Hürlimann 1993.
- \*\* *L. microloba* Taylor OV: Grolle 1979, Miller et al. 1983.
- \*\* *L. minima* Hürl. FII: Hürlimann 1995. VI: Hürlimann 1993.
- \*\* *L. nietneri* (Steph.) Steph. VI: Campbell 1971, Miller et al. 1983.
- \*\* *L. patersonii* (Steph.) Steph. OV: TYPE of *Microlejeunea samoana*, Miller et al. 1963b, 1983 both as *Microlejeunea samoana* Steph. VI: Hürlimann 1993.

- \*\* *L. procumbens* Mitt. FII: **TYPE**, **Mitten 1873**, Stephani 1914 as *Hygrolejeunea procumbens*, Bonner 1965 as *Hygrolejeunea procumbens*, Thiers 1983, Geissler & Bischler 1987. VI: Miller et al. 1983 also as *Hygrolejeunea procumbens* [Viti Levu with a “?”].
- \* <sup>13</sup> *L. sinclairii* Mitt. FII: **TYPE**, **Mitten 1862**, **Mitten 1873** as *Bryopteris sinclairii*, Stephani 1911 as *Thysananthus sinclairii*, Bonner 1963a as *Bryopteris sinclairii*, Thiers 1983, Miller et al. 1983 also as *Lejeunea sinclairii* and *Thysananthus sinclairii*, Geissler & Bischler 1987, 1990 as *Thysananthus sinclairii*.
- \*\*\* *L. sordida* (Nees) Nees FII: Zhu & So 2001, Yang & Lin 2009, Lee et al. 2011. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Hürlimann 1993.
- \*\* *L. subigiensis* (Steph.) Steph. OV: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983.
- \*\*\* *L. umbilicata* (Nees) Nees FII: Hürlimann 1995. OV: Jack & Stephani 1894 as *Taxilejeunea umbilicata*, Eifrig 1937 as *Taxilejeunea umbilicata*, Miller et al. 1983. TA: Pócs et al. 2011. VI: Jack & Stephani 1894 as *Taxilejeunea umbilicata*, Miller et al. 1983.

### *Lepicolea*

- \*\*\* *L. rara* (Steph.) Grolle FII: Grolle 1965, 1968 both as *Lepicolea loriana*, Miller et al. 1983 as *Lepicolea loriana*, Piippo 1984a, Schuster 2000. TA: Pócs et al. 2011. VI: Hürlimann 1983 as *Lepicolea loriana*.

### *Lepidolejeunea*

- \*\*\* *L. bidentula* (Steph.) R.M.Schust. FII: **SYNTYPE** of *Hygrolejeunea decurrens*, Stephani 1896 as *Hygrolejeunea decurvifolia*, 1914 as *Pycnolejeunea bidentula*, Jovet-Ast & Tixier 1962 as *Pycnolejeunea bidentula*, Bonner 1966 as *Hygrolejeunea decurvifolia*, Mizutani 1967 as *Pycnolejeunea bidentula* [with a “?”], Tixier 1970 as *Pycnolejeunea bidentula*, Miller et al. 1983 as *Hygrolejeunea decurvifolia*, Geissler & Bischler 1989 as *Pycnolejeunea decurvifolia*, Zhu & So 2001. KA: Pócs et al. 2011. OV: Jack & Stephani 1894 as *Pycnolejeunea bidentula*, Miller et al. 1983 as *Pycnolejeunea bidentula*. TA: Pócs et al. 2011. VI: Campbell 1971 as *Pycnolejeunea bidentula*, Miller et al. 1983 as *Pycnolejeunea bidentula*, Hürlimann 1995.
- \*\*\* — var. *bidentula* OV: Piippo 1986.
- \*\*\* *L. borneensis* (Steph.) R.M.Schust. TA: Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\*\* *L. graeffei* (J.B.Jack et Steph.) R.M.Schust. FII: Stephani 1911 as *Archilejeunea graeffei*, Horikawa 1943 as *Pycnolejeunea graeffei*, Geissler & Bischler 1987 as *Lejeunea graeffei*, 1989 as *Pycnolejeunea graeffei*. OV: **TYPE** of *Archilejeunea graeffei*, Jack & Stephani 1894 as *Archilejeunea graeffei*, Bonner 1962b as *Archilejeunea graeffei*, Mizutani 1972 as *Pycnolejeunea graeffei*, Miller et al. 1983 as *Pycnolejeunea graeffei* and *Archilejeunea graeffei*, Piippo 1986, TA: Pócs et al. 2011. VI: Hürlimann 1995.
- \*\*\* *L. integristipula* (J.B.Jack et Steph.) R.M.Schust. FII: Stephani 1896 as *Hygrolejeunea*

<sup>13</sup> *Lejeunea sinclairii* may be conspecific with *L. flava* (Grolle 1982). It is treated as a synonym of *Caudalejeunea reniloba* and *Thysananthus fruticosus* (= *Dendrolejeunea fruticosa*) by Miller et al. (1983).



*devexiloba*, Inoue & Miller 1965 as *Hygrolejeunea devexiloba*, Mizutani 1978a both as *Pycnolejeunea integristipula*, Miller et al. 1983 as *Hygrolejeunea devexiloba*, Geissler & Bischler 1990 as *Symbiezidium integristipulum*, Wilson et al. 2007. KA: Pócs et al. 2011. OV: **TYPE** of *Pycnolejeunea integristipula*, **Jack & Stephani 1894** as *Pycnolejeunea integristipula*, **Stephani 1912** as *Symbiezidium integristipulum*, **Campbell 1971** as *Symbiezidium integristipulum*, **Mizutani 1972** as *Pycnolejeunea integristipula*, Miller et al. 1983 as *Pycnolejeunea integristipula* and *Symbiezidium integristipulum*, **Piippo 1986**, **Geissler & Bischler 1987** as *Lejeunea integristipula*, **1989** as *Pycnolejeunea integristipula*, **Pócs et al. 2011**. TA: Pócs et al. 2011. VI: **Campbell 1971** as *Symbiezidium integristipulum*, Miller et al. 1983 as *Symbiezidium integristipulum* and *Pycnolejeunea integristipula*.

- \*\*\* *L. involuta* (Gottsche) Grolle FII: **Mitten 1873** as *Lejeunea hawaiiensis*, Miller et al. 1983 as *Harpalejeunea owaihiensis*.

### *Leptolejeunea*

- \*\*\* *L. elliptica* (Lehm. et Lindenb.) Schiffn. FII: Schuster 1984, Hürlimann 1995 as *Leptolejeunea subacuta*, Pócs & Streimann 1999 as *Leptolejeunea subacuta*. TA: **Campbell 1971** as *Leptolejeunea subacuta*, Miller et al. 1983 as *Leptolejeunea subacuta*. VI: **Campbell 1971** as *Leptolejeunea subacuta*, Miller et al. 1983 as *Leptolejeunea subacuta*.
- \*\*\* *L. epiphylla* (Mitt.) Steph. VA: Miller et al. 1983 as *Lejeunea polyrrhiza*. VI: **Campbell 1971**, Miller et al. 1983.
- \*\* *L. maculata* (Mitt.) Schiffn. FII: Pócs & Streimann 1999 as *Leptolejeunea rhombifolia*, Eggers & Pócs 2010 as *Leptolejeunea rhombifolia*. OV: **Campbell 1971** as *Leptolejeunea schiffneri* and *Leptolejeunea radiata*, Miller et al. 1983 as *Leptolejeunea radiata* and *Leptolejeunea schiffneri*. TA: **Campbell 1971** as *Leptolejeunea radiata* and *Leptolejeunea schiffneri*, Miller et al. 1983 as *Leptolejeunea radiata* and *Leptolejeunea schiffneri*. VA: **Campbell 1971** as *Leptolejeunea radiata*, Miller et al. 1983 as *Leptolejeunea radiata*. VI: **Campbell 1971** as *Leptolejeunea schiffneri*, *Leptolejeunea radiata* and *Leptolejeunea rhombifolia*, Miller et al. 1983 as *Leptolejeunea rhombifolia*, *Leptolejeunea radiata* and *Leptolejeunea schiffneri*, **Hürlimann 1995**.
- \*\* *L. tripuncta* (Mitt.) Steph. FII: **TYPE** of *Lejeunea tripuncta*, **Mitten 1873** as *Lejeunea tripuncta*, **Stephani 1913**, **Thiers 1983** as *Lejeunea tripunctata*, Miller et al. 1983 as *Lejeunea tripuncta*, Geissler & Bischler 1985, **1987** as *Lejeunea tripuncta* Mitt. VI: Miller et al. 1983 [Viti Levu with a "?"].

### *Lobatiriccardia*

- \*\*\* *L. coronopus* (De Not. ex Steph.) Furuki OV: **Campbell 1971** as *Riccardia lobata*, Miller et al. 1983 as *Riccardia lobata* var. *lobata*. VI: **Gibbs 1909** as *Aneura lobata*, **Campbell 1971** as *Riccardia lobata*, Miller et al. 1983 as *Riccardia lobata* var. *lobata*.

### *Lopholejeunea*

- \*\*\* *L. eulopha* (Taylor) Schiffn. FII: **Mitten 1862** as *Lejeunea eulopha*, **1873** as *Phragmicoma eulopha*, **Stephani 1912** as *Lopholejeunea immersa*, **Verdoorn 1934**, Miller et al. 1983 as *Lopholejeunea immersa*, **Sass-Gyarmati 2008**. KA: Pócs et al.

2011. TA: Pócs et al. 2011. VI: Campbell 1971, Miller et al. 1983, Hürlimann 1991.

\*\*\* *L. hispidissima* Steph. TA: Pócs et al. 2011. VI: Pócs et al. 2011.

\*\*\* *L. nigricans* (Lindenb.) Schiffn. FII: Stephani 1912 as *Lopholejeunea multiflora*, Sass-Gyarmati 2008. KA: Pócs et al. 2011. OV: TYPE of *Lopholejeunea multiflora*, Jack & Stephani 1894 as *Lopholejeunea multiflora*, Miller et al. 1983 as *Lopholejeunea multiflora*, Geissler & Bischler 1985 as *Lopholejeunea multiflora*, Zhu & Gradstein 2005. TA: Pócs et al. 2011. VI: Campbell 1971 as *Lopholejeunea multiflora*, Miller et al. 1983 as *Lopholejeunea multiflora*.

\*\* *L. pocsii* Gyarmati FII: Sass-Gyarmati 2008. VI: TYPE, Sass-Gyarmati 2005.

\*\* *L. renistipula* (Mitt.) Steph. FII: TYPE of *Phragmicoma renistipula*, Mitten 1873 as *Phragmicoma renistipula*, Stephani 1912, Thiers 1983 as *Phragmicoma renistipula*, Miller et al. 1983 also as *Phragmicoma renistipula*, Geissler & Bischler 1985, 1989 as *Phragmicoma renistipula*.

\*\*\* *L. subfusca* (Nees) Schiffn. FII: Sass-Gyarmati 2008. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VA: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983, Hürlimann 1991.

\*\* *L. vojtkoana* Gyarmati FII: von Konrat et al. 2010b. KA: TYPE, Sass-Gyarmati 2008. TA: Sass-Gyarmati 2008.

\*\*\* *L. zollingeri* (Steph.) Schiffn. FII: Sass-Gyarmati 2005, 2008, Haerida et al. 2010. VA: Zhu & Gradstein 2005.

### *Marchantia*

\*\*\* *M. vitiensis* Steph. FII: TYPE, SYNTYPE of *Marchantia samoana* Steph., Stephani 1899a, also as *Marchantia samoana*, Grolle 1968 as *Marchantia samoana*, Geissler & Bischler 1985 as *Marchantia samoana*. OV: Geissler & Bischler 1985, Bischler-Causse 1989. VA: Campbell 1971, Miller et al. 1983, Bischler-Causse 1989. VI: Gibbs 1909, Hürlimann 1960, 1976 both as *Marchantia samoana*, Campbell 1971, Miller et al. 1983 also as *Marchantia samoana*, Bischler-Causse 1989.

### *Mastigolejeunea*

\*\*\* *M. auriculata* (Wilson) Schiffn. FII: Verdoorn 1934 as *Mastigolejeunea humilis*, Miller et al. 1983 as *Mastigolejeunea guahamensis*. OV: Jack & Stephani 1894 as *Mastigolejeunea guahamensis*, Miller et al. 1983 as *Mastigolejeunea humilis*.

\*\*\* *M. calcarata* (Mitt. ex Steph.) Verd. FII: Stephani 1911 as *Archilejeunea calcarata*, Verdoorn 1934, Bonner 1962b as *Archilejeunea calcarata*, Thiers 1983 as *Phragmicoma calcarata*, Geissler & Bischler 1985, Hürlimann 1989, Sass-Gyarmati 2003. KA: Pócs et al. 2011. OV: TYPE of *Phragmicoma calcarata*, Mitten 1873 as *Phragmicoma calcarata*, Miller et al. 1983 also as *Archilejeunea calcarata* and *Phragmicoma calcarata*, Thiers 1985, Geissler & Bischler 1989 as *Phragmicoma calcarata*, Thiers & Gradstein 1989, Pócs et al. 2011. VI: Campbell 1971, Miller et al. 1983.

### *Mastigophora*

\*\*\* *M. diclados* (Brid. ex F. Weber) Nees FII: Miller et al. 1983 as *Mastigophora angustisecta*. OV: Jack & Stephani 1894, Campbell 1971, Miller et al. 1983. TA: Campbell 1971, Miller et al. 1983. VA: TYPE of *Mastigophora angustisecta*,

Herzog 1951b as *Mastigophora angustisecta*, Miller et al. 1983, Geissler & Bischler 1985 as *Mastigophora angustisecta*. VI: Campbell 1971, Hürlimann 1983, Miller et al. 1983.

### *Metalejeunea*

- \*\* *M. crassitexta* (J.B.Jack et Steph.) Pócs FII: Schuster 1963 as *Lejeunea crassitexta*, Miller et al. 1983 as *Lejeunea crassitexta*, Geissler & Bischler 1987 as *Lejeunea crassitexta*. KA: Pócs et al. 2011. OV: TYPE of *Microlejeunea crassitexta*, Jack & Stephani 1894 as *Microlejeunea crassitexta*, Stephani 1915 as *Microlejeunea crassitexta*, Miller et al. 1963b, 1983 both as *Microlejeunea crassitexta*, Campbell 1971 as *Microlejeunea crassitexta*, Geissler & Bischler 1985 as *Microlejeunea crassitexta*, Pócs et al. 2011. TA: Pócs et al. 2011. VI: Campbell 1971 as *Microlejeunea crassitexta*, Miller et al. 1983 as *Microlejeunea crassitexta*, Pócs et al. 2011.
- \*\*\* *M. cucullata* (Reinw., Blume et Nees) Grolle FII: Bischler et al. 1962 as *Microlejeunea cucullata*, Miller et al. 1963a as *Microlejeunea cucullata*, Inoue & Miller 1965 as *Microlejeunea cucullata*, Pócs et al. 1967 as *Microlejeunea cucullata*, Mizutani 1978a as *Lejeunea cucullata*. KA: Pócs et al. 2011. OV: Jack & Stephani 1894 as *Microlejeunea albicans*, Miller et al. 1963b, 1983 both as *Microlejeunea cucullata*. VI: Campbell 1971 as *Microlejeunea cucullata*, Miller et al. 1983 as *Microlejeunea cucullata*, Hürlimann 1993 as *Lejeunea cucullata*.

### *Metzgeria*

- \*\*\*<sup>14</sup> *M. ciliata* Raddi FII: Piippo 1991 as *Metzgeria decipiens*, Kuwahara 1984, 1985 both as *Metzgeria decipiens*, Koponen et al. 2000 as *Metzgeria decipiens*, Costa 2008. OV: Campbell 1971 as *Metzgeria decipiens*, Miller et al. 1983 as *Metzgeria decipiens*. VI: Hürlimann 1969 as *Metzgeria decipiens*, Campbell 1971 as *Metzgeria decipiens*, Miller et al. 1983 as *Metzgeria decipiens*.
- \*\*\* *M. furcata* (L.) Corda FII: Mitten 1873, Kuwahara 1966, 1985 both as *Metzgeria densiseta*. OV: Jack & Stephani 1894, Miller et al. 1983 [with a “?”]. TA: Pócs et al. 2011. VI: Gibbs 1909, Campbell 1971 as *Metzgeria densiseta*, Miller et al. 1983 also as *Metzgeria densiseta* Steph.
- \*\*\* *M. leptoneura* Spruce FII: SYNTYPE of *Metzgeria papulosa*, Stephani 1899d as *Metzgeria papulosa*, Kuwahara 1961, 1966, 1968, 1969 all as *Metzgeria parvipapulosa*, 1982, 1984 both as *Metzgeria papulosa*, 1985 also as *M. papulosa*, Engel 1976, Miller et al. 1983 as *Metzgeria parvipapulosa*, Schuster 1992a as *Metzgeria parvipapulosa*, Damsholt 2002. VI: Kuwahara 1966 as *Metzgeria hauata*, Campbell 1971 as *Metzgeria hamata*, Miller et al. 1983, Piippo 1991.
- \*\* — var. *leptoneura* FII: Schuster 1992a. VI: Campbell 1971 as *Metzgeria hamata*.
- \*\* *M. lindbergii* Schiffn. FII: Kuwahara 1961 as *Metzgeria oceanica*, 1965, 1966, 1968 all as *Metzgeria pectinata*, 1985 as *Metzgeria minor*, Miller et al. 1983 as *Metzgeria pectinata* and *Metzgeria oceanica*.

<sup>14</sup> *Metzgeria ciliata* was (as *M. decipiens*) treated as a synonym of *M. furcata* by Grolle (2002b) but accepted by Costa (2008). Some reports of *M. furcata* may belong here.

*Microlejeunea*

- \*\* *M. lunulatiloba* Horik. VI: Pócs et al. 2011.

*Mnioloma*

- \*\* *M. novaezealandiae* J.J.Engel VI: Pócs et al. 2011.

*Notoscyphus*

- \*\*\* *N. lutescens* (Lehm. et Lindenb.) Mitt. VI: Schuster 2002.

*Pallavicinia*

- \*\*\* *P. lyellii* (Hook.) Carruth. FII: Stephani 1900, Bonner 1965 as *Diplomitrium lyellii*, Miller et al. 1983, Schuster 1992a.

*Phaeolejeunea*

- \*\*\* *P. amicum* (Hürl.) Pócs FII: Wilson et al. 2007. KA: Pócs 2008a, Pócs et al. 2011. TA: Pócs 2008a, Pócs et al. 2011. VI: Pócs et al. 2011.
- \*\* *P. inermis* (Steph.) Mizut. KA: Pócs et al. 2011.

*Plagiochila*

- \*\*\* *P. abietina* (Nees) Nees et Mont. FII: Bonner 1962a, Miller et al. 1983, Inoue 1986, Piippo 1989a. VI: Hürlimann 1974, Inoue 1984.
- \*\*\* *P. arbuscula* (Brid. ex Lehm. et Lindenb.) Lindenb. FII: Mitten 1861, Mitten 1873, Stephani 1903b as *Plagiochila belangeriana*, Herzog 1938 as *Plagiochila heterospina*, Bonner 1962a as *Plagiochila heterospina*, Miller et al. 1983 as *Plagiochila heterospina*, Geissler & Bischler 1989 as *Plagiochila heterospina*, Nair et al. 2005. OV: Jack & Stephani 1894 as *Plagiochila belangeriana*, Campbell 1971 as *Plagiochila belangeriana* var. *heterospina*, Miller et al. 1983, So 2000. TA: HOLOTYPE of *Plagiochila heterospina*, Campbell 1971 as *Plagiochila belangeriana* var. *heterospina*, Miller et al. 1983, Inoue 1984. VA: Campbell 1971 as *Plagiochila belangeriana* var. *heterospina*, Miller et al. 1983, Inoue 1984. VI: Campbell 1971 as *Plagiochila belangeriana* var. *heterospina*, Hürlimann 1974 as *Plagiochila alta*, Miller et al. 1983, So 2000, 2001a, b.
- \*\*\* *P. bantamensis* (Reinw., Blume et Nees) Mont. FII: Piippo 1989a as *Plagiochila parvisacculata*. VI: Campbell 1971 as *Plagiochila auriculata*, Miller et al. 1983 as *Plagiochila auriculata*, So & Grolle 2000, So 2001a.
- \*\* *P. bicornuta* Steph. TA: Pócs et al. 2011.
- \*\* *P. chauviniana* Mont. FII: Stephani 1904a as *Plagiochila longispica*, Miller et al. 1983 as *Plagiochila longispica*.
- \*\* *P. fissidentoides* Taylor FII: Stephani 1903a [“*fissidentoidea*”]. OV: Campbell 1971 [“*fissidentoidea*”], Miller et al. 1983. TA: Campbell 1971 [“*fissidentoidea*”], Miller et al. 1983. VI: Campbell 1971 [“*fissidentoidea*”], Miller et al. 1983.
- \*\*\* *P. hampeana* Gottsche FII: Piippo 1989a, So & Grolle 1999, So & Grolle 2001. VI: Inoue 1970, Hürlimann 1974, Miller et al. 1983, Inoue 1984.
- \*\* *P. huerlimannii* Inoue FII: Inoue 1972c. VI: TYPE, Inoue 1970, Hürlimann 1974, Miller et al. 1983, Geissler & Bischler 1989, Grolle & So 1999, So 2001b.

- \*\*\* *P. javanica* (Sw.) Nees et Mont. VI: Gibbs 1909 as *Plagiochila powellii*, Miller et al. 1983 as *Plagiochila powellii*.
- \*\*\* *P. sandei* Dozy ex Sande Lac. FII: TYPE of *Plagiochila seemannii* and its var. *perspinosa*, Mitten 1861, 1873 both as *Plagiochila seemannii*, Stephani 1904a as *Plagiochila seemannii*, Herzog 1938 as *Plagiochila seemannii* var. *perspinosa*, Bonner 1962a as *Plagiochila seemannii* and its var. *perspinosa*, Thiers 1983 as *Plagiochila seemannii*, Miller et al. 1983 as *Plagiochila seemannii* var. *perspinosa*, Geissler & Bischler 1989 as *Plagiochila seemannii* and its var. *perspinosa*, Piippo 1989a as *Plagiochila seemannii*, So & Grolle 1999, So 2001b. OV: Campbell 1971 as *Plagiochila seemannii*, Miller et al. 1983 as *Plagiochila seemannii*. TA: Campbell 1971 as *Plagiochila seemannii*, Miller et al. 1983 as *Plagiochila seemannii*. VA: Grolle 1968 as *Plagiochila seemannii*, Miller et al. 1983 as *Plagiochila seemannii*. VI: Campbell 1971 as *Plagiochila seemannii*, Hürlimann 1974 as *Plagiochila seemannii*, Miller et al. 1983 as *Plagiochila seemannii*.
- \*\*\* *P. teysmannii* Sande Lac. OV: TYPE of *Plagiochila ovalava*, Stephani 1903c as *Plagiochila ovalava*, Bonner 1962a as *Plagiochila ovalava*, Miller et al. 1983 as *Plagiochila ovalava*, Geissler & Bischler 1989 as *Plagiochila ovalava*, So 2001b.
- \*\* *P. vitiensis* Mitt. FII: Mitten 1873, Stephani 1903a as *Plagiochila tahitensis*, Bonner 1962a, Inoue 1981, Miller et al. 1983 as *Plagiochila brotleri*, Inoue 1986, Geissler & Bischler 1989. VI: TYPE and TYPE of *Plagiochila blepharophora*  $\epsilon$  *vitilevuana*, Mitten 1861, Schiffner 1890 as *Plagiochila blepharophora*  $\epsilon$  *vitilevuana*, Bonner 1962a as *Plagiochila blepharophora*  $\epsilon$  *vitilevuana*, Inoue 1970, Hürlimann 1974, Thiers 1983, Miller et al. 1983 also as *Plagiochila tahitensis* [with a “?”] and *Plagiochila blepharophora* var. *vitilevuana*, Scott & Bradshaw 1985, Geissler & Bischler 1989 as *Plagiochila blepharophora*  $\epsilon$  *vitilevuana*, So 2001b.

### *Plagiochilion*

- \*\*\* *P. braunianum* (Nees) S.Hatt. VI: Hürlimann 1974 [“*braunianus*”], Miller et al. 1983.
- \*\*\* *P. oppositum* (Reinw., Blume et Nees) S.Hatt. FII: TYPE of *Plagiochila geminifolia*, Mitten 1873 as *Plagiochila geminifolia*, Stephani 1897 as *Plagiochila geminifolia*, 1904b as *Plagiochila opposita*, Schiffner 1898, 1900 both as *Plagiochila opposita*, Inoue 1958 as *Noguchia opposita*, 1982, Bonner 1962a as *Plagiochila geminifolia*, Thiers 1983 as *Plagiochila geminifolia*, Miller et al. 1983 as *Plagiochila geminifolia*, Geissler & Bischler 1989 as *Plagiochila geminifolia*, So 2001b. OV: Jack & Stephani 1894 as *Plagiochila geminifolia*, Miller et al. 1983. VI: Pócs et al. 2011.

### *Pleurozia*

- \*\*\* *P. conchifolia* (Hook. et Arn.) Austin
- \*\* — var. *conchifolia* TA: Pócs et al. 2011.
- \*\*\* *P. gigantea* (F.Weber) Lindb. OV: Jack & Stephani 1894 as *Physiotium giganteum*, Miller et al. 1983 also as *Physiotium giganteum*, Thiers 1993. TA: Thiers 1993. VI: Gibbs 1909, Campbell 1971, Miller et al. 1983, Thiers 1993.

**Plicanthus**

- \*\*\*<sup>15</sup> *P. birmensis* (Steph.) R.M.Schust. VI: Campbell 1971 as *Chandonanthus birmensis*, Miller et al. 1983 as *Chandonanthus birmensis*.
- \*\*\* *P. hirtellus* (F.Weber) R.M.Schust. FII: Schuster 1963 as *Chandonanthus hirtellus*, Váňa & Piippo 1989b as *Chandonanthus hirtellus*. VI: Miller et al. 1983 as *Chandonanthus hirtellus* [Viti Levu with a “?”].

**Porella**

- \*\*\*<sup>16</sup> *P. elegantula* (Mont.) E.A.Hodgs. FII: Mitten 1873 as *Madotheca stangeri*, Miller et al. 1983 as *Madotheca stangeri* and *Porella stangeri*. OV: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983.
- \*\* *P. viridissima* (Mitt.) Grolle FII: Stephani 1910 as *Madotheca viridissima*, Hattori 1975a as *Porella viridissima* var. *viridissima*. OV: Miller et al. 1983 as *Porella viridissima* var. *viridissima*, So 2002. VI: Campbell 1971 as *Porella hebridensis*, Hattori 1975d, Miller et al. 1983 as *Porella viridissima* var. *viridissima* and *Porella hebridensis*, Hattori 1985, 1986c, Hürlimann 1989, So 2002.

**Psiloclada**

- \*\*\* *P. clandestina* Mitt. FII: Piippo 1984b, Pócs 1984. VA: Schuster 1970, Schuster 1963. VI: Schuster 1970, Campbell 1971.
- \*\* — subsp. *melanesica* R.M.Schust. FII: Schuster 2000. VI: Schuster 1980a, Miller et al. 1983.

**Ptychanthus**

- \*\*\* *P. striatus* (Lehm. et Lindenb.) Nees FII: Mitten 1873 as *Bryopteris striata*. LA: Verdoorn 1937. TA: Pócs et al. 2011. VI: Gibbs 1909, Campbell 1971, Hürlimann 1989.
- \*\* — var. *striatus* OV: Miller et al. 1983. VI: Miller et al. 1983.

**Pycnolejeunea**

- \*<sup>17</sup> *P. convexifolia* (Mitt.) Steph. FII: TYPE of *Lejeunea convexifolia*, Mitten 1873 as *Lejeunea convexifolia*, Stephani 1897 as *Pycnolejeunea convexistipa*, 1914, Miller et al. 1983 also as *Pycnolejeunea convexistipa* and *Lejeunea convexifolia*, Geissler & Bischler 1987 as *Lejeunea convexifolia*. VI: He 1999.

<sup>15</sup> *Plicanthus birmensis* seems to be close to *Tetralophozia* (N. Konstantinova, pers. comm. 2009).

<sup>16</sup> Preliminary investigation of New Zealand material suggests that *Porella elegantula* is a complex of three forms. The type of *P. elegantula* is from Auckland Islands, and appears to be more or less confined to western and southern South Island, and the subantarctic, and seems to be endemic to New Zealand. The record here is thus doubtful and needs clarification.

<sup>17</sup> *Pycnolejeunea convexifolia* may be a form of *Cheilolejeunea trapezia* (X.-L.He, pers. comm.).

**Radula**

- \* <sup>18</sup> *R. acuminata* Steph. FII: Yamada & Piippo 1989, Zhu & So 2001, So 2006. TA: Pócs et al. 2011. VI: Yamada 1984.
- \*\* *R. acuta* Mitt. TA: So 2006.
- \*\*\* *R. amentulosa* Mitt. FII: TYPE, Mitten 1873, Stephani 1910, Herzog 1953, Kitagawa 1973b, Yamada 1975, 1979, Thiers 1983, Miller et al. 1983, Yamada 1985, 1999, Yamada & Piippo 1989, Geissler & Bischler 1990. OV: So 2006. TA: So 2006. VA: So 2006. VI: Mitten 1861, Yamada 1984, So 2006.
- \*\*\* *R. campanigera* Mont. OV: Campbell 1971, Miller et al. 1983. TA: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983.
- \*\*\* *R. decurrens* Mitt. OV: Castle 1965.
- \*\*\* *R. formosa* (C.F.W.Meissn. ex Spreng.) Nees FII: TYPE of *Radula spicata*, Mitten 1862, 1873 both as *Radula spicata*, Stephani 1910, Castle 1950, Inoue & Miller 1965, Grolle 1966, Kitagawa 1979, Yamada 1979, 1999, Thiers 1983 as *Radula spicata*, Miller et al. 1983 as *Radula spicata*, Yamada & Piippo 1989, Geissler & Bischler 1990 as *Radula spicata*, So 2006. KA: So 2006. VA: Campbell 1971, Miller et al. 1983. VI: Hürlimann 1978, Miller et al. 1983, So 2006.
- \*\*\* *R. javanica* Gottsche OV: Castle 1966. TA: So 2006. VI: So 2006.
- \*\*\* *R. lingulata* Gottsche FII: So 2006. VI: Yamada 1984.
- \* <sup>19</sup> *R. multiflora* Gottsche ex Schiffn. KA: Pócs et al. 2011. TA: Pócs et al. 2011. VI: Yamada 1984.
- \* <sup>20</sup> *R. nymaunii* Steph. FII: Yamada 1979, Miller et al. 1983, Yamada & Piippo 1989. TA: current report. VI: current report.
- \*\*\* *R. protensa* Lindenb. TA: Pócs et al. 2011.
- \*\* — var. *erectilobula* Schiffn. VI: Campbell 1971 [“*erectilobula*”], Miller et al. 1983.
- \*\*\* *R. reflexa* Nees et Mont. TA: So 2006. VI: So 2006.
- \*\*\* *R. retroflexa* Taylor TA: So 2006. VA: Campbell 1971 as *Radula miqueliana*, Miller et al. 1983 as *Radula retroflexa* var. *retroflexa*. VI: Campbell 1971 as *Radula miqueliana*, Miller et al. 1983 as *Radula retroflexa* var. *retroflexa*.
- \*\*\* *R. scariosa* Mitt. FII: TYPE, Mitten 1873, Stephani 1910, Castle 1950, Thiers 1983, Miller et al. 1983, Yamada 1985 as *Radula scariosa* var. *scariosa*, 1999, Geissler & Bischler 1990. VI: Mitten 1861, So 2006.
- \*\*\* *R. tjibodensis* K.I.Goebel FII: Zhu & So 2001, Eggers & Pócs 2010. TA: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Hürlimann 1978, Miller et al. 1983, So 2006.

<sup>18</sup> *Radula acuminata* is very close to *R. tjibodensis* (Söderström et al. 2010).

<sup>19</sup> *Radula multiflora* was treated as a new synonym of *Radula javanica* by So (2006), but accepted by Renner and de Lange (2009), who record this species as new for New Zealand, where *R. javanica* also occurs.

<sup>20</sup> *Radula nymaunii* is close to *R. protensa* (Söderström et al. 2010). We have not found any first hand report of it from Fiji in the literature although Yamada (1979) reports it but we are able to cite the following specimens: Taveuni, Wainibau Stream, leg. S & T Pócs 03826/AR; road to De Voeux Peak, leg. S. & T. Pócs 03288/DP; Viti Levu, South Coast, S & T Pócs 03261/CA, all det. M. Renner, 2011.

**Riccardia**

- \*\*\* *R. alba* (Colenso) E.A.Br. FII: Miller et al. 1983 as *Riccardia vitiensis*, Geissler & Bischler 1990 as *Riccardia vitiensis*. OV: TYPE of *Aneura samoana* and *Aneura vitiensis*, **Stephani 1893a** as *Aneura vitiensis* and *Aneura samoana* ["Samoa-Ovalau"], 1899c as *Aneura vitiensis*, **Jack & Stephani 1894** as *Aneura vitiensis*, **Bonner 1962b** as *Aneura vitiensis*, **Campbell 1971** as *Riccardia vitiensis*, Miller et al. 1983 as *Riccardia samoana*, *Aneura samoana* and *Aneura vitiensis*, **Brown & Braggins 1989**. VA: **Campbell 1971** as *Riccardia vitiensis*, Miller et al. 1983 as *Riccardia samoana*. VI: **Campbell 1971** as *Riccardia vitiensis*, **Hürlimann 1976** as *Riccardia samoana*, Miller et al. 1983 as *Riccardia samoana*.
- \*\* *R. flagellaris* (A.Gepp) H.A.Mill. FII: Schuster 1992a as *Aneura flagellaris*. VI: TYPE of *Aneura flagellaris*, **Gibbs 1909** as *Aneura flagellaris*, **Bonner 1977** as *Aneura flagellaris*, Miller et al. 1983 also as *Aneura flagellaris*.
- \*\*\* *R. graeffei* (Steph.) Hewson FII: Geissler & Bischler 1990, Furuki 2002, Furuki 2006. VI: TYPE of *Aneura graeffei*, **Stephani 1893a** as *Aneura graeffei*, **Jack & Stephani 1894** as *Aneura graeffei*, **Bonner 1962b** as *Aneura graeffei*, **Hürlimann 1976**, Miller et al. 1983 also as *Aneura graeffei*, **Furuki 1991**.
- \*\* *R. heteroclada* Schiffn. TA: **Campbell 1971** as *Riccardia serrulata*, Miller et al. 1983 as *Riccardia serrulata*.
- \*\* *R. uadeaudii* (Steph.) Hürl. VI: **Gibbs 1909** as *Aneura nadeandii*, Miller et al. 1983.
- \*\* *R. pectiuata* (Steph.) Hürl. var. *fasciculata* FII: Miller et al. 1983 as *Riccardia fasciculata*. VI: **Hürlimann 1976**, Miller et al. 1983.
- \*\* *R. plumosa* (Mitt.) E.O.Campb. FII: TYPE of *Sarcouitriuuu pluuosum*, **Mitten 1862, 1873** both as *Sarcomitriinu pluuosuuu*, **Stephani 1899b** as *Aneura plumosa*, **Bonner 1962b** as *Aneura plumosa*, **Thiers 1983** as *Sarcouitriinu pluuosum*, Miller et al. 1983 as *Sarcouitriinu pluuosum* and *Aneura plumosa*, **Geissler & Bischler 1990** also as *Sarcomitrium pluuosuuu*. VI: **Campbell 1971**, **Hürlimann 1976**, Miller et al. 1983.
- \*\* *R. tenuicostata* Schiffn. VI: **Gibbs 1909** as *Aneura tenuicostata*, Miller et al. 1983.

**Riccia**

- \*\* *R. linearis* (Schiffn.) Steph. FII: **Stephani 1898**, Geissler & Bischler 1990. VI: TYPE of *Ricciella linearis*, **Schiffner 1890** as *Ricciella linearis*, Miller et al. 1983, **Geissler & Bischler 1990** as *Ricciella linearis*.
- \*\* *R. reclinigeri* Steph. VI: **Campbell 1971**, Miller et al. 1983.

**Saccogynidium**

- \*\* *S. chiloscyphoides* R.M.Schust. VA: TYPE, **Schuster 1963**, Miller et al. 1983, **Geissler & Bischler 1990**.
- \*\* *S. muricellum* (De Not.) Grolle FII: **Grolle & Schultze-Motel 1973**, Miller et al. 1983, **Piippo 1985**, **Hürlimann 1998**, **Gao et al. 2001**.
- \*\* *S. rigidulum* (Nees) Grolle FII: **Grolle 1965, 1968** both also as *Saccogynidium jugatum*, **Grolle & Schultze-Motel 1973**, Miller et al. 1983 as *Saccogynidium jugatum*, **Piippo 1985**, **Gao et al. 2001**. VA: Miller et al. 1983.



**Sandeothallus**

- \*\* *S. radiculosus* (Schiffn.) R.M.Schust. VI: Campbell 1971 as *Calycularia radiculosa*, Miller et al. 1983 as *Moerckia radiculosa*.

**Schistochila**

- \*\*\* *S. aligera* (Nees et Blume) J.B.Jack et Steph. FII: Miller et al. 1983 as *Paraschistochila graeffeana*, Geissler & Bischler 1989 as *Paraschistochila graeffeana*, 1990 as *Schistochilaster graeffeannus*. OV: TYPE of *Schistochila graeffeana*, Jack & Stephani 1894 as *Schistochila graeffeana*, Stephani 1909 as *Schistochila graeffeana*, Miller et al. 1983 as *Schistochilaster graeffeannus* and *Schistochila graeffeana*, Geissler & Bischler 1990 as *Schistochila graeffeana*. VA: Campbell 1971 as *Schistochila philippinensis*, Miller et al. 1983 as *Schistochilaster philippinensis*. VI: Campbell 1971 as *Schistochila philippinensis*, Miller et al. 1983 as *Schistochilaster philippinensis*.
- \*\*\* *S. blumei* (Nees) Trevis. VI: Hürlimann 1998.
- \*\*\* *S. caledonica* Steph. FII: Hürlimann 1998. VI: Campbell 1971 as *Schistochila flavicans*, Miller et al. 1983.
- \*\*\* *S. fijiensis* H.Buch et Herzog TA: Campbell 1971, Miller et al. 1983. VA: TYPE, Herzog 1951a, Campbell 1971, Miller et al. 1983, Geissler & Bischler 1990. VI: Campbell 1971, Miller et al. 1983.
- \*\*\* *S. repleta* (Hook.f. et Taylor) Steph. VI: Gibbs 1909 as *Schistochila heterodonta*, Miller et al. 1983 as *Schistochila heterodonta*.
- \*\*\* *S. scinrea* (Nees) Schiffn. FII: Schiffner 1898. OV: Jack & Stephani 1894, Campbell 1971, Miller et al. 1983 also as *Ptilidium scinreum* and *Schistocheila sciurea*. VI: Miller et al. 1983 as *Gottschea sciurea* and *Jungermannia sciurea*, Hürlimann 1998.

**Solenostoma**

- \*\*\* *S. ariadne* (Taylor ex Lehm.) R.M.Schust. ex Váňa et D.G.Long FII: Váňa 1973a, 1975, 1991a all as *Jungermannia ariadne*, Váňa & Piippo 1989a as *Jungermannia ariadne*, Bapna & Kachroo 2000 as *Jungermannia ariadne*, Schuster 2002 as *Solenostoma ariadne*. VA: Váňa 1973b as *Jungermannia ariadne*, Miller et al. 1983 as *Plectocolea ariadne*. VI: Váňa 1973b as *Jungermannia ariadne*, Miller et al. 1983 as *Plectocolea ariadne*.
- \*\*\* *S. haskarliannum* (Nees) R.M.Schust. ex Váňa et D.G.Long FII: Váňa 1973a, 1991a both as *Jungermannia haskarliana*, Váňa & Inoue 1983 as *Jungermannia haskarliana*, Váňa & Piippo 1989a as *Jungermannia haskarliana*, Bapna & Kachroo 2000 as *Jungermannia haskarliana*, Gao & Bai 2001 as *Jungermannia haskarliana*, Schuster 2002 as *Solenostoma haskarliannum*. VA: Campbell 1971 as *Plectocolea haskarliana*. VI: Campbell 1971 as *Plectocolea haskarliana*, Váňa 1973b, 1975 both as *Jungermannia haskarliana*, Hürlimann 1974 as *Jungermannia haskarliana* ["*haskarliana*"], Miller et al. 1983 as *Jungermannia haskarliana*.
- \*\*\* *S. tetragonum* (Lindenb.) R.M.Schust. ex Váňa et D.G.Long FII: Váňa & Piippo 1989a as *Jungermannia tetragona*, Váňa 1991a as *Jungermannia tetragona*, Schuster 2002 as *Solenostoma tetragonum*, Váňa et al. 2005 as *Jungermannia tetragona*. TA: Campbell 1971 as *Plectocolea tetragona*, Váňa 1975 as *Jungermannia tetragona*, Miller et al. 1983 as *Jungermannia tetragona*. VA: Campbell 1971 as *Plectocolea tetragona*, Miller et al. 1983 as *Jungermannia tetragona*. VI: Campbell 1971 as *Plectocolea tetragona*, Miller et al. 1983 as *Jungermannia tetragona*.

- \*\*\* *S. truncatum* (Nees) R.M.Schust. ex Váňa et D.G.Long FII: Váňa 1991a as *Jungermannia truncata*, Piippo et al. 1998 as *Jungermannia truncata*, Váňa et al. 2005 as *Jungermannia truncata*. VI: Váňa & Piippo 1989a as *Jungermannia truncata*.

### *Spruceanthus*

- \*\*\* *S. polymorphus* (Sandé Lac.) Verd. KA: Pócs et al. 2011. OV: Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Miller et al. 1983.

### *Symphyogynopsis*

- \*\*\* *S. gottscheana* (Mont. et Nees) Grolle FII: Furuki 2002 as *Symphyogynopsis filicium*, Chantanaorrapint et al. 2004 as *Symphyogynopsis filicium*. OV: TYPE of *Symphyogyna vitiensis*, Jack & Stephani 1894 as *Symphyogyna vitiensis*, Stephani 1900 as *Symphyogyna vitiensis*, Miller et al. 1983 as *Symphyogyna vitiensis*, Grolle & Piippo 1986 as *Symphyogynopsis filicium*, Geissler & Bischler 1990 as *Symphyogyna vitiensis*. VI: Gibbs 1909 as *Symphyogyna vitiensis*, Hürlimann 1969 as *Symphyogyna vitiensis*, Campbell 1971 as *Symphyogyna vitiensis*, Miller et al. 1983 as *Symphyogyna vitiensis*, Grolle & Piippo 1986 as *Symphyogynopsis filicium*.

### *Taxilejenea*

- \*\* *T. deflexa* Steph. FII: TYPE, Stephani 1914, Eifrig 1937, Geissler & Bischler 1990. VI: Miller et al. 1983.

### *Telaranea*

- \*\*\* *T. lindenbergii* (Gottsche) J.J.Engel et G.L.Merr. VI: Gibbs 1909 as *Lepidozia lindenbergii*.
- \*\*\* *T. pruinosa* (Herzog) J.J.Engel et G.L.Merr. OV: TYPE of *Lepidozia pruinosa*, Herzog 1951a as *Lepidozia pruinosa*, Miller et al. 1983 as *Lepidozia pruinosa*, Geissler & Bischler 1985 as *Lepidozia pruinosa*, Engel & Smith Merrill 2004.
- \*\*\* *T. rosarioana* H.A.Mill. FII: Engel & Smith Merrill 2004 [the locality is in Vanuatu, not in Fiji]. VI: Pócs et al. 2011.

### *Temnoma*

- \*\*\* *T. setigerum* (Lindenb.) R.M.Schust. FII: Schuster 1969, Piippo 1984a, Schuster 1984, Long & Grolle 1990, Bapna & Kachroo 2000, Schuster 2000. VI: Schuster 1968.
- \*\*<sup>21</sup> — var. *hawaiiicum* Inoue FII: Miller et al. 1983.
- \*\* — var. *setigerum* (Lindenb.) R.M.Schust. VI: Miller et al. 1983.

### *Thysananthus*

- \*\*\* *T. retusus* (Reinw., Blume et Nees) B.M.Thiers et Gradst. FII: Mitten 1873 as *Phragmicoma plana*, Schiffner 1898 as *Thysananthus planus*, Miller et al. 1983 as

<sup>21</sup> *Temnoma setigerum* is reported from Fiji both as var. *setigerum* and var. *hawaiiicum* by Miller et al. (1983), but we are not aware of any first hand report of any of the varieties and do not know what they are basing their reports on.

*Phragmicoma plana*. VA: Verdoorn 1937 as *Thysananthus planus*, Campbell 1971 as *Thysananthus planus*, Miller et al. 1983 as *Thysananthus planus*. VI: Campbell 1971 as *Caudalejeunea stephaniai*, Miller et al. 1983 as *Thysananthus planus*, Hürlimann 1989 as *Thysananthus planus*.

- \*\*\* *T. spathulistipus* (Reinw., Blume et Nees) Lindenb. KA: Pócs et al. 2011. OV: Jack & Stephani 1894 as *Thysanolejeunea spathulistipa*, Campbell 1971, Miller et al. 1983. VI: Campbell 1971, Hürlimann 1989.

### *Treubia*

- \*\* *T. insignis* (Steph.) R.M.Schust. et G.A.M.Scott. FII: Piippo 1988.
- \*\* — subsp. *bracteata* (Steph.) R.M.Schust. et G.A.M.Scott FII: Schuster 1963 as *Treubia bracteata*. TA: Campbell 1971 as *Treubia bracteata*, Miller et al. 1983. VI: Gibbs 1909 as *Treubia bracteata*, Miller et al. 1983.
- \*\* — subsp. *vitiensis* R.M.Schust. et G.A.M.Scott FII: Schuster & Konstantinova 1995. VI: TYPE, Schuster & Scott 1969, Miller et al. 1983, Geissler & Bischler 1990.
- \*\*\* *T. lacunosa* (Colenso) Prosk. VI: Gibbs 1909 as *Treubia bracteata*.

### *Trichocolea*

- \* <sup>22</sup> *T. pluma* (Reinw., Blume et Nees) Mont. FII: Grolle 1965, Kitagawa 1973b, Kitagawa 1978. OV: Jack & Stephani 1894, Miller et al. 1983. TA: Campbell 1971. VA: Campbell 1971. VI: Gibbs 1909, Campbell 1971, Hürlimann 1983, Miller et al. 1983.
- \*\*\* *T. tomentella* (Ehrh.) Dumort. FII: Mitten 1861.

### *Zoopsisidella*

- \*\*\* *Z. caledonica* (Steph.) R.M.Schust. FII: Schuster 1969, Grolle & Piippo 1984, Schuster 2000. VI: Schuster 1970, Schuster 1999.

### *Zoopsis*

- \*\* *Z. liukiensis* Horik. VA: Pócs et al. 2011. VI: Pócs et al. 2011.

## Taxa doubtfully occurring on Fiji

List of taxa reported from Fiji that we regard questionable and in need of verification either from re-examination of specimens or new reports.

### *Frullania*

- \* <sup>23</sup> *F. brotheri* Steph. FII: Stephani 1911, Bonner 1965. VI: Miller et al. 1983 [Viti Levu with a “?”].

<sup>22</sup> *Trichocolea pluma* is almost inseparable from *T. tomentella* and often included in the latter (Söderström et al. 2010).

<sup>23</sup> We know of no first hand report of *Frullania brotheri* from Fiji. Furthermore, it is taxonomically questionable and possibly just a form of *F. nodulosa* (Söderström et al. 2010).

\*\*<sup>24</sup> *F. hamata* Steph. FII: Pócs 2008b. VI: Campbell 1971, Miller et al. 1983.

\*\*\*<sup>25</sup> *F. hypoleuca* Nees FII: von Konrat & Braggins 2001, Pócs 2008b. OV: Miller et al. 1983.

### *Heteroscyphus*

\*\*<sup>26</sup> *H. caledonicus* (Steph.) Schiffn. FII: Miller et al. 1983, Hürlimann 1998.

\*\*<sup>27</sup> *H. parvulus* (Schiffn.) Schiffn. VI: Gibbs 1909 as *Chiloscyphus parvulus*.

### *Lejeunea*

\*\*<sup>28</sup> *L. papilionacea* Steph. Fij: Bonner 1966 as *Hygrolejeunea diversitexta*.

### *Schiffneriolejeunea*

\*\*\*<sup>29</sup> *S. tunida* (Gottsche) Gradst. et Terken var. *haskarliana* VA: Miller et al. 1983 as *Schiffneriolejeunea haskarliana*. VI: Miller et al. 1983 as *Schiffneriolejeunea haskarliana*.

### *Telaranea*

\*\*\*<sup>30</sup> *T. wallichiana* (Gottsche) R.M.Schust. VI: Campbell 1971 as *Lepidozia tenera*, Miller et al. 1983 as *Lepidozia tenera*.

<sup>24</sup> *Frullania hamata* is given as endemic to New Guinea by Hattori & Piippo (1986) without commenting on the records from Fiji. We treat the report from Fiji as doubtful until the identity of the specimen is confirmed.

<sup>25</sup> We know of no first hand report of *Frullania hypoleuca* from Fiji and we do not know what Miller et al. (1983) are basing their report on. However, they include taxa in their synonym list that we refer elsewhere and it may be some of these, but *F. hypoleuca* may well occur in Fiji since it occurs on other islands in the Pacific.

<sup>26</sup> We know of no first hand reports of *Heteroscyphus caledonicus* and none of the references Miller et al. (1983) cite seem to mention it for Fiji.

<sup>27</sup> *Heteroscyphus parvulus* occurs only in Java, Borneo and New Guinea according to Piippo (1992). We treat the report from Fiji as doubtful until the identity of the specimen is confirmed.

<sup>28</sup> The only report of *Lejeunea papilionaceae* from the Pacific is a second hand report by Bonner (1966) from Fiji and New Caledonia. It is a taxon from Africa and SE Asia.

<sup>29</sup> We know of no first hand reports of *Schiffneriolejeunea tunida* from Fiji and do not know what Miller et al. (1983) are basing their reports on. However, it is widely distributed in the Pacific so it probably also occurs in Fiji.

<sup>30</sup> *Telaranea wallichiana* is a species complex that was treated by Engel & Smith Merrill (2004), but they do not report it from anywhere in the Pacific although earlier reports exist.

## Taxa rejected from Fiji

List of taxa reported from Fiji that has been shown erroneous or are here rejected.

### *Cheilolejeunea*

\*\*\*<sup>31</sup> *C. mariana* (Gottsche) B.M.Thiers et Gradst. FII: Stephani 1911 as *Archilejeunea mariana*. VA: Campbell 1971 as *Archilejeunea mariana*, Miller et al. 1983 as *Spruceanthus marianus*. VI: Campbell 1971 as *Archilejeunea mariana*, Miller et al. 1983 as *Spruceanthus marianus*.

### *Frullania*

\*\*\*<sup>32</sup> *F. orientalis* Sande Lac. VI: Campbell 1971, Miller et al. 1983.

### *Hygrolejeunea*

\*<sup>33</sup> *H. parvicalycina* Steph. FII: Bonner 1966, Miller et al. 1983.

### *Lejeunea*

\*\*<sup>34</sup> *L. tenella* Taylor VI: Campbell 1971 as *Euosmolejeunea tenella*, Miller et al. 1983 as *Euosmolejeunea tenella*.

### *Lepicolea*

\*\*\*<sup>35</sup> *L. scolopendra* (Hook.) Dumort. ex Trevis. FII: Fulford 1963, Hässel & Solari 1975, Miller et al. 1983, Solari 1983, Schuster 2000.

### *Lepidolaena*

\*\*<sup>36</sup> *L. brachyclada* (Taylor ex Lehm.) Trevis. FII: Miller et al. 1983 [with a “?”].

### *Leptolejeunea*

\*\*<sup>37</sup> *L. lancifolia* (Mitt.) Steph. FII: Miller et al. 1983 [with a “?”].

- <sup>31</sup> Thiers & Gradstein (1989) showed that most of the reports of *Cheilolejeunea mariana* belongs to *Archilejeunea planinscula*. *C. mariana* is confined to the Mariana Is. and Caroline Is.
- <sup>32</sup> All reports of *Frullania orientalis* from Fiji are *Frullania capillaris* (Hattori 1985).
- <sup>33</sup> The genus *Hygrolejeunea* is now generally regarded as a synonym of *Lejeunea* but *H. parvicalycina* has never been transferred and we do not know the value of it. Furthermore, we know of no first hand report and can not find what Bonner (1965) is basing his report on. It is otherwise confined to Java.
- <sup>34</sup> *Lejeunea tenella* is rejected from the Pacific by Zhu (2006).
- <sup>35</sup> *Lepicolea scolopendra* is a taxon from Australia and New Zealand erroneously reported from many parts of the world.
- <sup>36</sup> *Lepidolaena brachyclada* is endemic to Tasmania (Schuster 1984).
- <sup>37</sup> *Leptolejeunea lancifolia* is reported from Fiji by Miller et al. (1983) probably because it was published in *Flora Vitiensis* by Mitten (1873), but he clearly states that it is from Samoa. Mitten reported many new things from areas other than Fiji in that publication, and several authors have been too uncritical and reported many taxa from Fiji that never have been found there, because of this unfortunate way of publishing.

**Lopholejeunea**

\*\*\*<sup>38</sup> *L. plicatiscypha* (Hook.f. et Taylor) Steph. FII: Stephani 1912 as *Lopholejeunea tecta*, Miller et al. 1983 [with a “?”], Thiers & Gradstein 1989.

**Marchantia**

\*\*\*<sup>39</sup> *M. chenopoda* L. VI: Schiffner 1890, Miller et al. 1983 [with a “?”], Bischler-Cause 1989.

\*\*<sup>40</sup> *M. paleacea* Bertol. FII: Mitten 1873 [s.loc.spec.], Evans 1917 [with doubt], Hattori 1966 [with a “?”], Hattori 1968 [with a “?”], Bapna & Kachroo 2000b. OV: Miller et al. 1983 [with a “?”]. VI: Miller et al. 1983 [with a “?”].

\*\*\* — subsp. *paleacea* FII: Schiffner 1898 as *Marchantia nitida*, Miller et al. 1983 as *Marchantia nitida*, Schuster 1992b [with a “?”]. OV: Jack & Stephani 1894 as *Marchantia nitida*. VI: Mitten 1873 as *Marchantia nitida*.

\*\*\*<sup>41</sup> *M. pileata* Mitt. FII: Mitten 1862, Miller et al. 1983.

**Mastigolejeunea**

\*\*\*<sup>42</sup> *M. virens* (Ångstr.) Steph. FII: Miller et al. 1983 as *Mastigolejeunea taitica*.

**Metzgeria**

\*\*\*<sup>43</sup> *M. procera* Mitt. VI: Kuwahara 1966 as *Metzgeria hamata*, Campbell 1971 as *Metzgeria hamata*.

**Plagiochila**

\*\*\*<sup>44</sup> *P. blepharophora* (Nees) Lindenb. FII: Miller et al. 1983.

**Plagiochilium**

\*\*<sup>45</sup> *P. combinatum* (Mitt.) Inoue FII: Stephani 1904b as *Plagiochila combinata*, Miller et al. 1983 also as *Plagiochila combinata* [both with a “?”].

<sup>38</sup> *Lopholejeunea plicatiscypha* is reported from Fiji by Stephani (1912; as *Lopholejeunea tecta*) probably because it was published in *Flora Vitiensis* by Mitten (1873), but there he clearly states that it is from Kermadec. Mitten reported many new things from areas other than Fiji in that publication, and several authors have been too uncritical and reported many taxa from Fiji that never have been found there, because of this unfortunate way of publishing.

<sup>39</sup> *Marchantia chenopoda* is an American species (Bischler-Cause 1989).

<sup>40</sup> All reports of *Marchantia paleacea* refer to *M. vitiensis* (Bischler-Cause 1989).

<sup>41</sup> All reports of *Marchantia pileata* refer to *M. vitiensis* (Bischler-Cause 1989).

<sup>42</sup> *Mastigolejeunea virens* is reported from Fiji based on complicated synonymy. We know of no reliable report although it occurs on many islands in the South Pacific.

<sup>43</sup> *Metzgeria procera* is an American species erroneously reported from many parts of the world due to complicated synonymy.

<sup>44</sup> *Plagiochila blepharophora* is reported due to erroneous synonymy with *P. vitiensis*.

**Porella**

- \*\* 46 *P. javanica* (Gottsche ex Steph.) Inoue VI: Campbell 1971, Miller et al. 1983.

**Psiloclada**

- \*\* 47 *P. clandestina* Mitt. subsp. *clandestina* Mitt. VA: Miller et al. 1983. VI: Miller et al. 1983.

**Radula**

- \*\* 48 *R. anceps* Sande Lac. FII: So 2006. VI: Campbell 1971, Miller et al. 1983 as *Radula anceps* var. *anceps*.  
 \*\*\* 49 *R. brunnea* Steph. FII: Miller et al. 1983.  
 \*\*\* 50 *R. complanata* (L.) Dumort. OV: Miller et al. 1983.

**Riccardia**

- \*\*\* 51 *R. chamedryfolia* (With.) Grolle VI: Schiffner 1890 as *Aneura pinnatifida*.

**Symbiezidium**

- \*\*\* 52 *S. transversale* (Sw.) Trevis. var. *transversale* FII: Verdoorn 1934 as *Symbiezidium bacciferum*, Miller et al. 1983 as *Symbiezidium bacciferum*.

**Telaranea**

- \*\*\* 53 *T. bisetula* (Steph.) E.O.Campb. FII: Engel & Smith Merrill 2004. VI: Campbell 1971, Miller et al. 1983 also as *Lepidozia bisetula*.  
 \*\*\* 54 *T. melanesica* H.A.Mill. FII: Engel & Smith Merrill 2004.  
 \*\*\* 55 *T. tetradactyla* (Hook.f. et Taylor) E.A.Hodgs. VI: Váňa 1975 as *Jungermannia tetradactyla*, Miller et al. 1983, Hürlimann 1985, Engel & Smith Merrill 2004.

<sup>45</sup> We know of no reliable report of *Plagiochilium combiantum* outside Hawaii.

<sup>46</sup> Hattori (1985) doubted the report of *Porella javanica* from Fiji but did not study any specimen and So (2002) rejected it after seeing the specimens the report was based on.

<sup>47</sup> All reports of *Psiloclada clandestina* from Fiji should be referred to subsp. *melanesica*.

<sup>48</sup> *Radula anceps* was rejected from Fiji by So (2006).

<sup>49</sup> Kitagawa (1973b) rejected earlier reports of *Radula brunnea* from Fiji as a result of the erroneous synonymization with *R. amentulosa* by Castle (1950).

<sup>50</sup> *Radula complanata* is a boreal taxon that almost certainly does not occur in Fiji. We have not found the source for the report in Miller et al. (1983).

<sup>51</sup> *Riccardia chamedryfolia* is a boreal species not occurring in Fiji.

<sup>52</sup> *Symbiezidium transversale* is an American species (Gradstein & van Beek 1975).

<sup>53</sup> The report of *Telaranea bisetula* by Campbell (1971) is rejected by Hürlimann (1985).

<sup>54</sup> The locality for *Telaranea melanesica* is in Vanuatu, not in Fiji.

<sup>55</sup> Engel & Smith Merrill (2004) reject all earlier reports of *Telaranea tetradactyla* from Fiji.

**Treubia**

\*\* <sup>56</sup> *T. insignis* K.I.Goebel subsp. *insignis* VI: Miller et al. 1983.

**Tylimanthus**

\*\*\* <sup>57</sup> *T. saccatus* (Hook.) Mitt. ex Carrington et Pearson FII: Mitten 1873 as *Marsupidium urvilleanum*, Miller et al. 1983 as *Tylimanthus urvilleanus* [with a “?”], *Gymnanthe urvilleana* and *Marsupidium urvilleanum*.

**Synonyms**

Only synonyms used in reports from Fiji are included.

*Anastrophyllum contractum* (Reinw., Blume et Nees) Steph. ≡ *Cuspidatula contracta*

*Anastrophyllum graeffei* J.B.Jack et Steph. = *Denotarisia linguifolia*

*Anastrophyllum vitiense* J.B.Jack et Steph. = *Cuspidatula contracta*

*Aneura flagellaris* A.Gepp ≡ *Riccardia flagellaris*

*Aneura graeffei* Steph. ≡ *Riccardia graeffei*

*Aneura lobata* (Schiffn.) Steph. = *Lobatiriccardia coronopus*

*Aneura nadeaudii* Steph. ≡ *Riccardia nadeaudii*

*Aneura pinnatifida* (Weber) Nees = *Riccardia chamedryfolia*

*Aneura plumosa* (Mitt.) Steph. ≡ *Riccardia plumosa*

*Aneura samoana* Steph. = *Riccardia alba*

*Aneura tenuicostata* (Schiffn.) Steph. ≡ *Riccardia tenuicostata*

*Aneura vitiensis* Steph. = *Riccardia alba*

*Anthoceros amboinensis* Schiffn. ≡ *Folioceros amboinensis*

*Anthoceros appendiculatus* Steph. = *Folioceros glandulosus*

*Anthoceros flagellaris* Mitt. ≡ *Megaceros flagellaris*

*Anthoceros fuciformis* Mont. ≡ *Folioceros fuciformis*

*Anthoceros glandulosus* Lehm. et Lindenb. ≡ *Folioceros glandulosus*

*Anthoceros laevis* subsp. *carolinianus* (Michx.) Prosk. ≡ *Phaeoceros carolinianus*

*Archilejeunea calcarata* (Mont.) Mitt. ex Steph. = *Mastigolejeunea calcarata*

*Archilejeunea graeffei* J.B.Jack et Steph. ≡ *Lepidolejeunea graeffei*

*Archilejeunea mariana* (Gottsche) Steph. ≡ *Cheilolejeunea mariana*

*Archilejeunea meyeniana* (Nees, Lindenb. et Gottsche) J.B.Jack et Steph. ≡ *Cheilolejeunea meyeniana*

<sup>56</sup> *Treubia insignis* subsp. *insignis* is a SE Asiatic taxon and only subsp. *bracteata* and *vitiensis* occurs in Fiji.

<sup>57</sup> All reports of *Tylimanthus saccatus* originate from Mitten (1871) where he reports it as *Marsupidium urvilleanum* saying “A single stem picked from amongst Mosses is all that indicates the presence of this or some closely allied species”. We reject the report due to this vague statement, and the fact that the species is not reported from anywhere else in the Pacific.



- Aspiromitus glandulosus* (Lehm. et Lindenb.) Steph. ≡ *Folioceros glandulosus*  
*Bazzania australis* (Mont.) Trevis. = *Bazzania tridens*  
*Bazzania australis* Gottsche, Lindenb. et Nees = *Bazzania tridens*  
*Bazzania vitiensis* Mitt. ex E.O.Campb. *nom. inval.* = *Bazzania vitiana*  
*Bryopteris sinclairii* (Mitt.) Mitt. ≡ *Lejeunea sinclairii*  
*Bryopteris striata* (Lehm. et Lindenb.) Mitt. ≡ *Ptychanthus striatus*  
*Calycularia radiculosa* Steph. ex Schiffn. *nom. illeg.* = *Sandeothis radiculosus*  
*Caudalejeunea recurvistipula* (Gottsche) Schiffn. = *Caudalejeunea reniloba*  
*Caudalejeunea stephauii* Spruce ex Steph. = *Thysananthus retusus*  
*Chandonanthus birmensis* Steph. ≡ *Plicanthus birmensis*  
*Chandonanthus hirtellus* (F.Weber) Mitt. ≡ *Plicanthus hirtellus*  
*Cheilolejeunea parkinsonii* (Steph.) Mizut. = *Cheilolejeunea cookiensis*  
*Chiloscyphus argutus* (Reinw., Blume et Nees) Nees ≡ *Heteroscyphus argutus*  
*Chiloscyphus aselliformis* (Reinw., Blume et Nees) Nees ≡ *Heteroscyphus aselliformis*  
*Chiloscyphus communis* Steph. = *Heteroscyphus coalitus*  
*Chiloscyphus confluens* Mitt. = *Heteroscyphus aselliformis*  
*Chiloscyphus endlicherianus* (Nees) Nees = *Heteroscyphus argutus* var. *argutus*  
*Chiloscyphus parvulus* Schiffn. ≡ *Heteroscyphus parvulus*  
*Chiloscyphus succulentus* Gottsche ≡ *Heteroscyphus succulentus*  
*Cololejeunea goebelii* (Gottsche ex Schiffn.) Schiffn. = *Cololejeunea trichomanis*  
*Cololejeunea hispidissima* (Steph.) Pandé, K.P.Srivast. et Sultan Khan = *Cololejeunea*  
*haskarliana* var. *haskarliana*  
*Cololejeunea nymannii* (Steph.) Benedix = *Cololejeunea obliqua*  
*Cololejeunea vitiensis* (E.O.Campb.) H.A.Mill. *nom. illeg.* = *Cololejeunea polyantha*  
*Colura acutifolia* Ast = *Colura conica*  
*Colura apiculata* Schiffn. ex Steph. = *Colura leratii*  
*Colurolejeunea apiculata* Schiffn. *nom. inval.* = *Colura leratii*  
*Crossogyua flexicaulis* (Nees) Schljakov ≡ *Jamesoniella flexicaulis*  
*Cuspidatula vitiensis* (J.B.Jack et Steph.) Steph. = *Cuspidatula contracta*  
*Dendroceros pusillus* Steph. = *Dendroceros javanicus*  
*Dendrolejeunea vittata* (Mitt.) Steph. ex Schiffn. *nom. illeg.* = *Dendrolejeunea fruticosa*  
*Diplasiolejeunea brachyclada* A.Evans = *Diplasiolejeunea cavifolia*  
*Diplomitriou lyellii* (Hook.) Corda ≡ *Pallavicinia lyellii*  
*Drepanolejeunea filicuspis* Steph. ≡ *Harpalejeunea filicuspis*  
*Drepanolejeunea riddleana* Steph. = *Harpalejeunea filicuspis*  
*Drepanolejeunea ternatensis* var. *lancispina* Herzog = *Drepanolejeunea ternatensis*  
*Drepanolejeunea uncinata* (Mitt.) Steph. = *Drepanolejeunea ternatensis*  
*Dumortiera trichocephala* (Hook.) Nees = *Dumortiera hirsuta* subsp. *nepalensis*  
*Dumortiera velutina* Schiffn. = *Dumortiera hirsuta* subsp. *nepalensis*  
*Enosmolejeunea parkinsonii* Steph. = *Cheilolejeunea cookiensis*  
*Enosmolejeunea partucola* (Reichardt) J.B.Jack et Steph. = *Cheilolejeunea trifaria*

- Euosmolejeunea tenella* (Taylor) Steph.  $\equiv$  *Lejeunea tenella*  
*Euosmolejeunea trifaria* (Reinw., Blume et Nees) Spruce ex Schiffn.  $\equiv$  *Cheilolejeunea trifaria*  
*Euosmolejeunea uvifera* (Mont.) Steph. = *Lejeunea flava*  
*Folioceros spinisporus* (Steph.) D.C.Bharadwaj = *Folioceros amboinensis*  
*Frullania angulistipa* (Steph.) Steph. *nom. inval.*  $\equiv$  *Frullania angustistipa*  
*Frullania angulosa* Mitt. = *Frullania intermedia* subsp. *intermedia*  
*Frullania curvatirostra* J.B.Jack ex Steph. *nom. inval.* = *Frullania novocurvirostris*  
*Frullania curvirostris* J.B.Jack et Steph. *nom. illeg.*  $\equiv$  *Frullania novocurvirostris*  
*Frullania grossispica* Steph. = *Frullania serrata*  
*Frullania inflatistipula* J.B.Jack ex Bonner *nom. inval.* = *Frullania nodulosa*  
*Frullania intermedia* f. *billardieriana* (Nees et Mont.) Verd. = *Frullania intermedia* subsp. *intermedia*  
*Frullania khedingiana* Steph. = *Frullania intermedia* subsp. *intermedia*  
*Frullania meteoroides* Mitt. = *Frullania serrata*  
*Frullania pacificae* Taylor = *Frullania apiculata*  
*Frullania parhamii* (R.M.Schust.) R.M.Schust. *nom. inval.*  $\equiv$  *Frullania parhamii*  
*Frullania pendula* Austin *nom. illeg.* = *Frullania deflexa*  
*Frullania rechingeri* Steph. = *Frullania immersa*  
*Frullania squarrosa* (Nees) Nees = *Frullania ericoides*  
*Frullania stellatitexta* Steph. = *Frullania intermedia* subsp. *intermedia*  
*Frullania varians* J.B.Jack ex Bonner *nom. inval.* = *Frullania deflexa*  
*Frullania vesiculosa* Steph. = *Frullania ericoides*  
*Frullania vethii* Sande Lac. = *Frullania trichodes*  
*Gottschea sciurea* (Nees) Sande Lac.  $\equiv$  *Schistochila sciurea*  
*Gymnanthe urvilleana* (Mont.) Taylor = *Tylimanthus saccatus*  
*Harpalejeunea owailiensis* (Gottsche) A.Evans = *Lepidolejeunea involuta*  
*Herbertus tutuilanus* Pearson = *Herbertus lougifissus*  
*Herpetium australe* Mont. = *Bazzania tridens*  
*Heteroscyphus communis* (Steph.) Schiffn. = *Heteroscyphus coalitus*  
*Heteroscyphus concinnus* (De Not.) Schiffn. = *Heteroscyphus succulentus*  
*Heteroscyphus confluentis* (Mitt.) Schiffn. = *Heteroscyphus aselliformis*  
*Hygrolejeunea decurvifolia* Steph. = *Lepidolejeunea bidentula*  
*Hygrolejeunea devexiloba* Steph. = *Lepidolejeunea integristipula*  
*Hygrolejeunea graeffeana* Steph. = *Lejeunea lumbricoides*  
*Hygrolejeunea procumbens* (Mitt.) Steph.  $\equiv$  *Lejeunea procumbens*  
*Jamesoniella contracta* (Reinw., Blume et Nees) N.Kitag.  $\equiv$  *Cuspidatula contracta*  
*Jamesoniella ovifolia* (Schiffn.) Schiffn. = *Denotarisia linguifolia*  
*Jungermannia ariadne* Taylor ex Lehm.  $\equiv$  *Solenostoma ariadne*  
*Jungermannia flexicaulis* Nees  $\equiv$  *Jamesoniella flexicaulis*  
*Jungermannia haskarliana* (Nees) Mitt.  $\equiv$  *Solenostoma haskarlianum*  
*Jungermannia sciurea* Nees  $\equiv$  *Schistochila sciurea*

- Jungermannia tetradactyla* Hook.f. et Taylor ≡ *Telaranea tetradactyla*  
*Jungermannia tetragona* Lindenb. ≡ *Solenostoma tetragonum*  
*Jungermannia truncata* Nees ≡ *Solenostoma truncatum*  
*Kurzia bisetula* (Steph.) Grolle ≡ *Telaranea bisetula*  
*Lejeunea apiculata* Schiffn. *nom. inval.* = *Colura leratii*  
*Lejeunea caespitosa* Lindenb. = *Lejeunea capensis*  
*Lejeunea convexifolia* Mitt. ≡ *Pycnolejeunea convexifolia*  
*Lejeunea crassitexta* (J.B.Jack et Steph.) R.M.Schust. ≡ *Metalejeunea crassitexta*  
*Lejeunea cucullata* (Reinw., Blume et Nees) Nees *nom. illeg.* ≡ *Metalejeunea cucullata*  
*Lejeunea cucullata* (Reinw., Blume et Nees) Nees ≡ *Metalejeunea cucullata*  
*Lejeunea eulopha* Taylor ≡ *Lopholejeunea eulopha*  
*Lejeunea graeffei* J.B.Jack et Steph. ex P.Geissler et Bischl. *nom. inval.* = *Lepidolejeunea graeffei*  
*Lejeunea hawaiiensis* Gottsche ex Mitt. = *Lepidolejeunea involuta*  
*Lejeunea integristipula* (Mizut.) J.B.Jack et Steph. ex P.Geissler et Bischl. *nom. inval.* = *Lepidolejeunea integristipula*  
*Lejeunea meyeniana* Nees, Lindenb. et Gottsche ≡ *Cheilolejeunea meyeniana*  
*Lejeunea polyantha* Mitt. *nom. illeg.* = *Cololejeunea polyantha*  
*Lejeunea polyrhiza* auct. *nom. illeg.* = *Leptolejeunea epiphylla*  
*Lejeunea superba* Mont. ≡ *Colura superba*  
*Lejeunea superba* var. *apiculata* Schiffn. *nom. inval.* = *Colura leratii*  
*Lejeunea tripuncta* Mitt. ≡ *Leptolejeunea tripuncta*  
*Lejeunea uvifera* Mont. = *Lejeunea flava*  
*Lepicolea loriana* Steph. = *Lepicolea rara*  
*Lepidozia bisetula* Steph. ≡ *Telaranea bisetula*  
*Lepidozia lindenbergii* Gottsche ≡ *Telaranea lindenbergii*  
*Lepidozia pruinosa* Herzog ≡ *Telaranea pruinosa*  
*Lepidozia tenera* Steph. = *Telaranea wallichiana*  
*Leptocolea goebelii* (Gottsche ex Schiffn.) A.Evans = *Cololejeunea trichomanis*  
*Leptocolea vitiensis* (Mitt.) E.O.Campb. *nom. illeg.* = *Cololejeunea polyantha*  
*Leptolejeunea radiata* (Mitt.) Steph. = *Leptolejeunea maculata*  
*Leptolejeunea rhombifolia* Steph. = *Leptolejeunea maculata*  
*Leptolejeunea schiffneri* (Steph. ex Schiffn.) Steph. = *Leptolejeunea maculata*  
*Leptolejeunea schiffneri* (Steph.) Steph. *nom. inval.* = *Leptolejeunea maculata*  
*Leptolejeunea subacuta* Steph. ex A.Evans = *Leptolejeunea elliptica*  
*Lophocolea graeffei* J.B.Jack et Steph. ≡ *Heteroscyphus graeffei*  
*Lophocolea muricata* (Lehm.) Nees ≡ *Chiloscyphus muricatus*  
*Lophocolea parva* Steph. ≡ *Chiloscyphus parvus*  
*Lophocolea rectangularata* Mitt. ≡ *Chiloscyphus samoanus*  
*Lopholejeunea contractilis* (Mitt.) Steph. = *Caudalejeunea recurvistipula*  
*Lopholejeunea immersa* (Mitt.) Steph. = *Lopholejeunea eulopha*  
*Lopholejeunea multiflora* J.B.Jack et Steph. = *Lopholejeunea nigricans*

- Lopholejeunea tecta* (Mitt.) Steph. = *Lopholejeunea plicatiscypha*  
*Madotheca stangeri* Lindenb. et Gottsche = *Porella elegantula*  
*Madotheca viridissima* Mitt. ex Steph. = *Porella viridissima*  
*Marchantia nitida* Lehm. et Lindenb. = *Marchantia paleacea* subsp. *paleacea*  
*Marchantia samoana* Steph. = *Marchantia vitiensis*  
*Marsupidium urvilleanum* (Mont.) Mitt. = *Tylinauthus saccatus*  
*Mastigobryum australe* (Mont.) Lindenb. = *Bazzania tridens*  
*Mastigobryum caudistipulum* Steph. = *Bazzania caudistipula*  
*Mastigobryum combinatum* J.B.Jack et Steph. = *Bazzania coubinata*  
*Mastigobryum hamatifolium* Steph. = *Bazzania hamatifolia*  
*Mastigobryum paradoxum* Sande Lac. = *Bazzania paradoxa*  
*Mastigobryum uncigerum* (Reinw., Blume et Nees) Nees = *Bazzania uncigera*  
*Mastigobryum vitiense* Mitt. ex Steph. = *Bazzania vitiana*  
*Mastigolejeunea guahameensis* (Lindenb.) Steph. = *Mastigolejeunea auriculata*  
*Mastigolejeunea humilis* (Gottsche) Schiffn. = *Mastigolejeunea auriculata*  
*Mastigolejeunea taitica* (Gottsche ex Steph.) Gottsche ex Steph. = *Mastigolejeunea virens*  
*Mastigophora angustisecta* Herzog = *Mastigophora dichlados*  
*Megaceros monospirus* Steph. = *Megaceros flagellaris*  
*Metzgeria decipiens* (C.Massal.) Schiffn. = *Metzgeria ciliata*  
*Metzgeria densiseta* Steph. = *Metzgeria furcata*  
*Metzgeria hamata* (Mitt.) Lindb. nom. illeg. = *Metzgeria procera*  
*Metzgeria minor* (Schiffn.) Kuwah. = *Metzgeria lindbergii*  
*Metzgeria oceanica* Kuwah. = *Metzgeria lindbergii*  
*Metzgeria papulosa* Steph. = *Metzgeria leptoneura*  
*Metzgeria parvipapulosa* Kuwah. = *Metzgeria leptoneura*  
*Metzgeria pectinata* Steph. = *Metzgeria lindbergii*  
*Metzgeriopsis pusilla* K.I.Goebel = *Cololejeunea metzgeriopsis*  
*Microlejeunea albicans* (Nees) Steph. = *Metalejeunea cucullata*  
*Microlejeunea crassitexta* J.B.Jack et Steph. = *Metalejeunea crassitexta*  
*Microlejeunea cucullata* (Reinw., Blume et Nees) J.B.Jack et Steph. = *Metalejeunea cucullata*  
*Microlejeunea samoana* Steph. = *Lejeunea patersonii*  
*Moerckia radiculosa* Schiffn. = *Sandeothallus radiculosus*  
*Neohattoria parhamii* R.M.Schust. = *Frullania parhamii*  
*Noguclia opposita* (Reinw., Blume et Nees) Inoue = *Plagiochilium oppositum*  
*Paraschistochila graeffeana* (J.B.Jack et Steph.) R.M.Schust. = *Schistochila aligera*  
*Phaeoceros laevis* subsp. *carolinianus* (Michx.) Prosk. = *Phaeoceros carolinianus*  
*Phragmicoma bilabiata* Mitt. = *Archilejeunea bilabiata*  
*Phragmicoma calcarata* (Mont.) Mitt. nom. illeg. = *Mastigolejeunea calcarata*  
*Phragmicoma contractilis* Mitt. = *Caudalejeunea recurvistipula*  
*Phragmicoma eulopha* (Taylor) Mitt. = *Lopholejeunea eulopha*  
*Phragmicoma plana* (Sande Lac.) Mitt. = *Thysananthus retusus*

- Phragmicoma renistipula* Mitt. ≡ *Lopholejeunea renistipula*  
*Physiotium giganteum* (F.Weber) Lindb. ≡ *Pleurozia gigantea*  
*Physocolea polyantha* (Mitt.) Steph. = *Cololejeunea polyantha*  
*Plagiochila alta* Steph. = *Plagiochila arbuscula*  
*Plagiochila auriculata* Mitt. = *Plagiochila bantamensis*  
*Plagiochila belangeriana* Lindenb. = *Plagioclila arbuscula*  
*Plagiochila belangeriana* var. *heterospina* (Steph. ex Herzog) E.O.Campb. = *Plagiochila arbuscula*  
*Plagiochila blepharophora* ≡ *vitilevuana* Schiffn. = *Plagiochila vitiensis*  
*Plagiochila brotheri* Steph. = *Plagiochila vitiensis*  
*Plagiochila combinata* Mitt. ≡ *Plagiochilium combinatum*  
*Plagiochila dendroides* (Nees) Lindenb. ≡ *Chiastocaulon dendroides*  
*Plagiochila geminifolia* Mitt. = *Plagiochilium oppositum*  
*Plagiochila heterospina* Steph. ex Herzog *non. illeg.* = *Plagiochila arbuscula*  
*Plagiochila longispica* Mitt. = *Plagiochila chauviniana*  
*Plagiochila opposita* (Reinw., Blume et Nees) Lindenb. ≡ *Plagiochilium oppositum*  
*Plagiochila ovalava* Steph. = *P. teysmannii*  
*Plagiochila parvisacculata* Steph. = *Plagiochila bantamensis*  
*Plagiochila powellii* Mitt. ex Steph. = *Plagiochila javanica*  
*Plagiochila seemannii* Mitt. = *Plagiochila sandei*  
*Plagiochila seemannii* var. *perspinosa* Herzog = *Plagiochila sandei*  
*Plagiochila tahitensis* Ångstr. = *Plagiochila vitiensis*  
*Plectocolea ariadne* (Taylor ex Lehm.) Mitt. ≡ *Solenostoma ariadne*  
*Plectocolea haskarliana* (Nees) Mitt. ≡ *Solenostoma haskarlianum*  
*Plectocolea tetragona* (Lindenb.) Amakawa ≡ *Solenostoma tetragonum*  
*Porella hebridensis* (Steph.) E.O.Campb. = *Porella viridissima*  
*Porella stangeri* (Lindenb. et Gottsche) Trevis. = *Porella elegantula*  
*Ptilidium sciureum* (Nees) Nees ≡ *Schistochila sciurea*  
*Ptychocoleus pycnocladus* (Taylor) Steph. ≡ *Acrolejeunea pycnoclada*  
*Pycnolejeunea bidentula* (Steph.) Steph. *nom. inval.* ≡ *Lepidolejeunea bidentula*  
*Pycnolejeunea bidentula* Steph. ≡ *Lepidolejeunea bidentula*  
*Pycnolejeunea ceylanica* (Gottsche) Schiffn. ≡ *Cheilolejeunea ceylanica*  
*Pycnolejeunea convexistipa* (Mitt.) Steph. *nom. illeg.* ≡ *Pycnolejeunea convexifolia*  
*Pycnolejeunea decurvifolia* (Steph.) Steph. = *Lepidolejeunea bidentula*  
*Pycnolejeunea falsinervis* (Sande Lac.) Schiffn. ≡ *Cheilolejeunea falsinervis*  
*Pycnolejeunea graeffei* (J.B.Jack et Steph.) Horik. ≡ *Lepidolejeunea graeffei*  
*Pycnolejeunea graeffei* (J.B.Jack et Steph.) Verd. *nom. inval.* ≡ *Lepidolejeunea graeffei*  
*Pycnolejeunea integristipula* J.B.Jack et Steph. ≡ *Lepidolejeunea integristipula*  
*Pycnolejeunea meyeniana* (Nees, Lindenb. et Gottsche) Steph. ≡ *Cheilolejeunea meyeniana*  
*Pycnolejeunea setifera* Steph. = *Cheilolejeunea gardneri*  
*Pycnolejeunea trapezia* (Nees) Schiffn. ≡ *Cheilolejeunea trapezia*

- Radula miqueliana* Taylor = *Radula retroflexa*  
*Radula spicata* Mitt. = *Radula formosa*  
*Riccardia fasciculata* (Steph.) Steph. nom. illeg. ≡ *Riccardia pectinata* var. *fasciculata*  
*Riccardia lobata* Schiffn. = *Lobatiriccardia coronopus*  
*Riccardia maxima* Schiffn. ≡ *Aneuria maxima*  
*Riccardia samoana* (Steph.) H.A.Mill. = *Riccardia alba*  
*Riccardia serrulata* Schiffn. = *Riccardia heteroclada*  
*Riccardia vitiensis* (Steph.) E.O.Campb. = *Riccardia alba*  
*Ricciella linearis* Schiffn. ≡ *Riccia linearis*  
*Saccogynidium jugatum* (Mitt.) Grolle = *Saccogynidium rigidulum*  
*Sarcomitrium plumosum* Mitt. ≡ *Riccardia plumosa*  
*Schiffneriolejeunea haskarliana* (Gottsche) Gradst. ≡ *Schiffneriolejeunea tumida* var. *haskarliana*  
*Schistochila flavicans* Steph. = *Schistochila caledonica*  
*Schistochila graeffeana* J.B.Jack et Steph. = *Schistochila aligera*  
*Schistochila heterodonta* (Colenso) Steph. = *Schistochila repleta*  
*Schistochila philippinensis* (Mont.) Steph. = *Schistochila aligera*  
*Schistochilaster graeffeanus* (J.B.Jack et Steph.) H.A.Mill. = *Schistochila aligera*  
*Schistochilaster philippinensis* (Mont.) H.A.Mill. = *Schistochila aligera*  
*Schusterella parhamii* (R.M.Schust.) S.Hatt., Sharp et Mizut. ≡ *Frullania parhamii*  
*Solenostoma haskarlianum* (Nees) R.M.Schust. nom. inval. ≡ *Solenostoma haskarlianum*  
*Spruceanthus marianus* (Gottsche) Mizut. ≡ *Cheilolejeunea mariana*  
*Symbiezidium bacciferum* (Taylor) Steph. = *Symbiezidium transversale* var. *transversale*  
*Symbiezidium integristipulum* (J.B.Jack et Steph.) Steph. ≡ *Lepidolejeunea integristipula*  
*Symphyogyna vitiensis* J.B.Jack et Steph. = *Symphyogynopsis gottscheana*  
*Symphyogynopsis filicum* (Nadeaud) Grolle = *Symphyogynopsis gottscheana*  
*Taxilejeunea cuculliflora* Steph. ≡ *Lejeunea cuculliflora*  
*Taxilejeunea gracilipes* (Taylor) Steph. ≡ *Lejeunea gracilipes*  
*Taxilejeunea lumbricoides* (Nees) Schiffn. ≡ *Lejeunea lumbricoides*  
*Taxilejeunea umbilicata* (Nees) J.B.Jack et Steph. ≡ *Lejeunea umbilicata*  
*Thysananthus fruticosus* (Lindenb. et Gottsche) Schiffn. ≡ *Dendrolejeunea fruticosa*  
*Thysananthus planus* Sande Lac. = *Thysananthus retusus*  
*Thysananthus sinclairii* (Mitt.) Steph. ≡ *Lejeunea sinclairii*  
*Thysanolejeunea fruticosa* (Lindenb. et Gottsche) Steph. ≡ *Dendrolejeunea fruticosa*  
*Thysanolejeunea spathulistipa* (Reinw., Blume et Nees) Steph. ≡ *Thysananthus spathulistipus*  
*Treubia bracteata* Steph. = *Treubia lacunosa*  
*Treubia bracteata* Steph. ≡ *Treubia insignis* subsp. *bracteata*  
*Tylimanthus urvilleanus* (Mont.) Hässel et Solari = *Tylimanthus saccatus*

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