

# A Revised Checklist of New Zealand Liverworts and Hornworts

David Glenny

Landcare Research New Zealand Ltd, P.O. Box 69, Lincoln, New Zealand

**ABSTRACT:** An alphabetical checklist of New Zealand liverworts and hornworts is presented. Listed are 72 taxa newly described for the New Zealand hepatic flora, and 36 taxa additionally recorded for New Zealand since 1975. A guide to recent literature and an index of synonyms is provided. A new combination is made for *Phaeoceros coriaceus*.

**KEYWORDS:** Checklist, hepatics, hornworts, liverworts, New Zealand

## Introduction

This is a checklist of all species of liverworts and hornworts currently regarded as present in New Zealand. It lists all new species, subspecies and varieties; new records and new synonyms that have appeared in publications since Hamlin's 1972 checklist and the amendments of 1973 and 1975. Also included are any published name change or addition except where there is conflict of opinion between authors (see Notes 9 and 10). The purpose of the list is to provide a list of names in current use and an indication of the publications to consult for descriptions, illustrations and keys to particular genera.

The number of families listed here is 47, the number of genera 149, and the number of species 578. The number of species, subspecies and varieties is 607 (24 species in the flora have more than one subspecies or variety present here). Three families (6%) appear to be endemic (Allisoniaceae, Jubulopsidaceae, Trichotemnaceae); 18 genera (12%) appear to be endemic (*Archeophylla*, *Allisonia*, *Bragginsella*, *Clandarium*, *Dendromastigophora*, *Echinolejeunea*, *Herzogianthus*, *Jubulopsis*, *Kymatolejeunea*, *Lamellocolea*, *Lembidium*, *Megalembidium*, *Nothogymnomitrium*, *Pseudolophocolea*, *Stolonivector*,

*Trichotemnoma*, *Verdoornia*, and *Xenothallus*), c. 269 species, subspecies and varieties (46%) appear to be endemic and 2-3 species (0.5%) introduced (*Marchantia polymorpha*, *Lunularia cruciata*, and possibly *Targionia hypophylla*).

The checklist covers the New Zealand botanical region, including the Kermedec Islands, the Chatham Islands, the Auckland Islands, Campbell Island and the Antipodes Islands, but not Macquarie Island (for which a checklist exists: Seppelt, 1990).

Since Hamlin's checklist and its amendments, two other liverwort checklists have been published in Australasia: for Australia (Scott & Bradshaw 1986) and for Tasmania (Ratkowsky 1987).

## Species, Subspecies and Varieties Described Since Hamlin 1975

*Acrolejeunea allisonii* Gradst. - in Gradstein (1975)

*Austroscyphus nitidissimus* (R.M.Schust.) R.M.Schust. - in Schuster (1985a, 1985b)

*Aneura gigantea* R.M.Schust. - in Schuster (1985)

*Aneura lobata* subsp. *australis* R.M.Schust. - in Schuster (1985)

- Aneura subaquatica* R.M.Schust. - in Schuster (1985)  
*Austrolejeunea fragilis* (R.M.Schust.) R.M.Schust. - in Schuster (1985, 1992b)  
*Austrolejeunea hispida* R.M.Schust. - in Schuster (1981), Grolle (1992)  
*Balantiopsis verrucosa* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1997)  
*Bazzania nova* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1994)  
*Bragginsella anomala* R.M.Schust. - in Schuster (1997)  
*Cephalozia bicuspidata* subsp. *austrigena* R.M. Schust. - in Schuster (1974b)  
*Cephalomitrium aterrimum* var. *longiscyphus* R.M.Schust. - in Schuster (1996)  
*Cephaloziella aenigmatica* R.M.Schust. - in Schuster (1996)  
*Cephaloziella muelleriana* R.M.Schust. - in Schuster (1996)  
*Cephaloziella nothogena* R.M.Schust. - in Schuster (1996)  
*Cephaloziella exigua* R.M.Schust. - in Schuster (1996)  
*Cephaloziella pellucida* R.M.Schust. - in Schuster (1996)  
*Cheilolejeunea novaezelandiae* R.M.Schust. - in Schuster (1985)  
*Chiloscyphus hattorii* J.J.Engel - in Engel (1993)  
*Cololejeunea inflexifolia* R.M.Schust. - in Schuster (1985)  
*Cololejeunea pulchella* var. *stylifera* R.M.Schust. - in Schuster (1985)  
*Colura pulcherrima* var. *bartlettii* Ast - in Jovet-Ast (1980)  
*Frullania svibblana* S.Hatt. - in Hattori (1983)  
*Gymnomitrium strictum* var. *inequalis* R.M.Schust. - in Schuster (1996c)  
*Haplomitrium minutum* (E.O.Campb.) R.M.Schust. - Campbell (1987), Schuster & Engel (1993)  
*Herzogianthus sanguineus* R.M.Schust. - in Schuster (1985)  
*Hygrolembidium rigidum* R.M.Schust. & J.J. Engel - in Schuster & Engel (1987)  
*Hygrolembidium triquetrum* R.M.Schust. & J.J.Engel - in Schuster & Engel (1987)  
*Kurzia fragilifolia* R.M.Schust. - in Schuster (1980)  
*Kurzia belophila* R.M.Schust. - in Schuster (1980)  
*Kurzia hippuroides* var. *ornata* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1996)  
*Kurzia quinquespina* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1996)  
*Kurzia temnomoides* R.M.Schust. - in Schuster (1980)  
*Kymatolejeunea bartlettii* Grolle - Grolle (1984)  
*Lembidium longifolium* R.M.Schust. - in Schuster (1980)  
*Marsupella sparsifolia* subsp. *childii* R.M.Schust. in Schuster (1996c)  
*Metzgeria alpina* R.M.Schust. & J.J.Engel -in Engel & Schuster (1988)  
*Metzgeria bartlettii* Kuwah. - in Kuwahara (1987)  
*Metzgeria crassipaginula* Kuwah. - in Kuwahara (1987)  
*Metzgeria vittii* Kuwah. - in Kuwahara (1980)  
*Nephelolejeunea conchophylla* Grolle - in Grolle (1980b)  
*Nephelolejeunea hamata* Grolle - in Grolle (1980b)  
*Nephelolejeunea papillosa* Glenney - in Grolle (1996a)  
*Pachyschistochila berggrenii* R.M.Schust. & J.J.Engel - in Schuster & Engel (1985)  
*Pachyschistochila childii* R.M.Schust. & J.J.Engel - in Schuster & Engel (1985)  
*Pachyschistochila latiloba* R.M.Schust. & J.J.Engel - in Schuster & Engel (1985)  
*Pachyschistochila nivicola* R.M.Schust. & J.J.Engel - Schuster & Engel (1985)  
*Pachyschistochila subhyalina* var. *grandidentata* J.J.Engel & R.M.Schust. - in Schuster & Engel (1985)  
*Pachyschistochila succulenta* R.M.Schust. & J.J.Engel - in Schuster & Engel (1985)  
*Paracromastigum fiordlandiae* R.M.Schust. & J.J.Engel - in Schuster & Engel (1996)  
*Porella pulcherrima* Herz. ex S.Hatt. - in Hattori (1986)  
*Psiloclada major* (R.M.Schust.) J.J. Engel - in Schuster & Engel (1985)  
*Reboulia hemisphaerica* subsp. *australis* R.M.Schust. - in Schuster (1985)  
*Riccardia breviala* E.A.Brown - in Brown & Braggins (1989)  
*Riccardia exilis* E.A.Brown - in Brown & Braggins (1989)  
*Riccardia furtiva* E.A.Brown & Braggins - in Brown & Braggins (1989)  
*Riccardia intercellula* E.A.Brown - in Brown & Braggins (1989)  
*Riccardia multicorpona* E.A.Brown - in Brown & Braggins (1989)  
*Riccardia pennata* E.A.Brown - in Brown & Braggins (1989)  
*Riccardia perspicua* E.A.Brown - in Brown & Braggins (1989)  
*Riccardia pseudodendroceros* R.M.Schust. - in Schuster (1985)  
*Riccardia umida* E.A.Brown - in Brown & Braggins (1989)  
*Schistochila pellucida* R.M.Schust. & J.J.Engel - in Schuster & Engel (1985)  
*Schistochila pluriciliata* R.M.Schust. & J.J.Engel - in

Schuster & Engel (1985)  
*Telaranea hodgsoniae* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1995)  
*Telaranea lindbergii* var. *complanata* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1995)  
*Telaranea lindbergii* var. *mellea* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1995)  
*Telaranea pennata* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1995)  
*Telaranea tubifera* J.J.Engel & R.M.Schust. - in Engel & Schuster (1983)  
*Telaranea praenitens* var. *dentifolia* J.J.Engel & G.L.S.Merrill - in Engel & Merrill (1995)  
*Treubia pygmaea* R.M.Schust. - in Schuster (1985)  
*Zoopsis nitida* Glenny, Braggins & R.M.Schust. - in Glenny, Braggins & Schuster (1997)

### Species and Subspecies Recorded for New Zealand since Hamlin (1975) with the publication in which they were first recorded

*Acrolejeunea mollis* (Hook. f. & Taylor) Schiffn. - in Gradstein (1975)  
*Acromastigum cunninghamii* (Steph.) A. Evans - in Engel & Merrill (1994)  
*Aneura* aff. *novoguineensis* Hewson - in Brown & Braggins (1989)  
*Aneura pinguis* (L.) Dumort. - in Brown & Braggins (1989)  
*Aneura* aff. *wattsiana* (Steph.) Hewson - in Brown & Braggins (1989)  
*Balantiopsis montana* (Col.) J.J. Engel & G.L.S. Merrill (1997)  
*Cephaloziella pulcherrima* subsp. *spagnicola* R.M. Schust. - in Glenny (1996a)  
*Cheilolejeunea mariana* (Gottsche, Lindenb. & Nees) B.Thiers & Gradst. - in Campbell (1977) as *Archilejeunea mariana* (Gottsche, Lindenb. & Nees) Steph.  
*Cheilolejeunea tenella* (Taylor) Engel & Tan - in Campbell (1977) as *Euosmolejeunea tenella* (Taylor) Steph.  
*Clasmatocolea vermicularis* (Lehm.) Grolle - in Engel (1980)  
*Cololejeunea cardiocarpa* (Mont.) Steph. - in Braggins (1997)  
*Cololejeunea minutissima* (Sw.) Schiffn. - in Grolle (1982) who comments that it is probably the same species as

*C. cucullifolia* (Herz.) E.A.Hodgs. Both names are in the checklist until this is confirmed.  
*Drepanolejeunea vesiculosa* subsp. *evvesiculosa* Herz. - in Campbell (1977b)  
*Dumortiera hirsuta* (Sw.) Nees - in Campbell (1977b)  
*Fossombronia wondraczekii* (Corda) Dumort. - in Campbell (1988)  
*Frullania engelii* S. Hatt. - in Campbell (1997)  
*Frullania junghuhniana* Gottsche - in Campbell (1997)  
*Harpalejeunea filicuspis* (Steph.) Mizut. - in Grolle (1980)  
*Herzogobryum atrocapillum* (Hook.f. & Taylor) Grolle - in Schuster (1996c)  
*Herzogobryum vermiculare* (Schiffn.) Grolle - in Schuster (1996c)  
*Lejeunea anisophylla* Mont. - in Campbell (1977a)  
*Marchantia pileata* Mitt. - in Bischler-Causse (1989)  
*Metzgeria albinea* Spruce - in Kuwahara (1987)  
*Metzgeria australis* Steph. - in Kuwahara (1987)  
*Metzgeria epiphylla* Evans - in Kuwahara (1987)  
*Pallavicinia rubristipa* Schiffn. - in Grolle (1986)  
*Phaeoceros hirticalyx* (Steph.) Haseg. - in Campbell (1993)  
*Radula campanigera* Mont. - in Campbell (1977a)  
*Riccia bullosa* Link - in Campbell (1975)  
*Riccia ciliata* Hoffm. - in Campbell (1975)  
*Riccia crozalsii* Levier - in Campbell (1975)  
*Riccia glauca* L. - in Campbell (1975)  
*Riccia sorocarpa* Bisch. - in Campbell (1975)  
*Seppeltia succuba* Grolle - in Glenny (1995)  
*Stenolejeunea apiculata* (Sande-Lac.) R.M.Schust. - in Grolle (1982) as *Lejeunea apiculata*  
*Taxilejeunea gracilipes* (Taylor) Steph. - in Campbell (1977b)

### Species of Uncertain Status that are in Hamlin (1972) or Hamlin (1975)

*Aneura biflora* Colenso, *Aneura gibbsiana* Steph., *Aneura glaucescens* Steph., *Aneura imbricata* Colenso, *Aneura minuta* Steph., *Aneura pellucida* Colenso, *Aneura polyantha* Colenso, *Aneura punctata* Colenso, *Riccardia riccioides* Pearson. None of these species that are listed in Hamlin's (1972) checklist are mentioned in Brown & Braggins (1989).  
*Frullania probosciphora* Taylor. Hattori (1983: 139) suggests Hodgson's records of *Frullania cranialis* and

*F. probosciphora* (both Australian species) are of *F. reptans* which he considers may be a geographical race of *F. probosciphora*. The name *F. reptans* is retained pending examination of these two.

*Leioscyphus repens*. Hamlin (1972) listed this as a synonym of *Chiloscyphus physanthus* (= *Heteroscyphus physanthus*) citing Hodgson (1943: 44). Hässel de Menendez (1986) examined the New Zealand type of this species and found it did not match Mitten's description or illustration, but believes that the species on which Mitten based his description and illustration may exist in the New Zealand flora. I have followed Hamlin and not retained the species in the checklist.

*Lepidozia filamentosa*. This species is listed in Hamlin (1972) in Part II but not Part I. The record's origin is D'Urville (1845: 246: "hab. in insulis Auckland et strato Magellanico à cl. Hombron lecta") and is cited in Hooker (1854-5) who says "A NW American and Fuegian plant, of which I have seen no N.Z. specimen". Engel (1978: 101) rejected it from the Brunswick Peninsula Flora. I have retained it in the checklist.

## Species Rejected from the New Zealand Flora

*Aneura palmata* (Hedw.) Dumort. and *Riccardia multifida* (L.) S.F. Gray are Northern Hemisphere species whose names have been misapplied to New Zealand Aneuraceae (E.A. Brown pers. comm.).

*Balantiopsis erinacea* (Hook.f. & Taylor) Mitt. rejected by Engel (1990b) as unlikely to be in New Zealand. The two specimens on which the record is based are by Lyall, without a locality in New Zealand, and by an unspecified collector from Auckland. Engel believes they are mislabelled South American specimens.

*Fossombronia intergerrima* Steph., rejected by Campbell (1988). The type, a Colenso specimen, is a male plant of uncertain identity.

*Fossombronia intestinalis* Taylor, rejected by Campbell (1988).

*Frullania pentapleura* Taylor, rejected by Hattori (1983) as all specimens examined from New Zealand were *F. solanderiana*.

*Hygrolembidium ventrosum* (Mitt.) R.M. Schust., rejected

by Engel & Schuster (1987).

*Noteroclada confluens* Taylor ex Hook. f. & Wils, rejected by Grolle & Seppelt (1986).

*Noteroclada longiuscula* Colenso, rejected by Grolle & Seppelt (1986). No specimen was found by Grolle and Seppelt, and they did not accept it as being in the genus *Noteroclada* on the basis of the description.

*Megaceros aneuraeformis* (Angstr.) Steph., listed in Hamlin (1972) as *Anthoceros aneuraeformis* Angstr., rejected by Campbell (1984).

*Pachyschistochila splachnophylla* (Hook. f. & Taylor) R.M. Schust. & J.J. Engel, rejected by Schuster & Engel (1985).

## Notes

1. *Fossombronia pusilla* (L.) Nees is cited in Hamlin (1972: 261) incorrectly as *Fossombronia pusilla* (Schmid.) Nees. Hamlin (1972: 299 & 340) uses the spelling *Plagiochila pleurota*, but *Plagiochila pleurata* is original as explained in Scott & Bradshaw (1986: 77).

2. The epithet "billardieri" has been changed to "billardierei", an orthographic correction noted in Garnock-Jones (1988). Hyphenations such as "albovirens" are orthographic errors and have been corrected. The epithet of *Allisonia cockaynei* has been corrected to *cockaynei* in accordance with the Botanical Code, Art 60.11 (Greuter *et al.* 1994).

3. The Index Hepaticarum indicates three species have illegitimate homonyms: *Lejeunea sindairii*, *Lejeunea epiphylla* and *Lepidozia remotifolia*. They may need new names if they are distinct species, but this is best left for a time when these genera are revised.

4. *Chiloscyphus amplexens* - *Clasmatocolea inflexispinus*: Engel (1990a) made a combination for *Chiloscyphus amplexens* in *Clasmatocolea* and, in Engel (1991e), made the combination for an older name subsequently found, *Clasmatocolea inflexispinus* (Hook.f. & Taylor) Engel. Hässel de Menendez (1996) has recommended that the genus *Clasmatocolea* not be recognised, placing the species in *Chiloscyphus*. I have retained *Clasmatocolea* and Engel's placement for this species in *Clasmatocolea* until Hässel de Menendez's recommendation can be assessed, but have given her new combinations as synonyms.

5. *Lethocolea pansa*: Sayre (1983) provides clear evidence that *Jungermannia pansa* Taylor appeared on 1 May 1846, whereas *Podanthe squamata* Taylor appeared on 1 July 1846. Hence the correct name for what was previously known as *Lethocolea squamata* is *Lethocolea pansa* (Taylor) Scott & Beckmann.

6. *Phaeoceros coriaceus* (Steph.) E.O.Campb. comb. nov. (basionym: *Anthoceros coriaceus* Stephani, *Species Hepaticarum* 5:991 (1916); type: New Zealand, T.Kirk 112, G 19821). Campbell has pointed out (pers. comm.) that this combination was not made validly in Campbell (1984: 120) and so is made here, with the justification for the change given there.

7. *Riccia vesiculosa* (Carrington & Pearson) Steph. Perold (1991) has made a detailed study of *Riccia bullosa* Lindenb. and considers it endemic to southern Africa. Campbell (pers. comm.) considers that the New Zealand plants she formerly identified as *R. bullosa* (in Campbell 1977a) are *R. vesiculosa*.

8. *Targionia lorbeeriana* Mull. Frib. Scott & Pike (1988) examined specimens from Australia and New Zealand and found all those examined matched *T. lorbeeriana*. However the evidence is not unequivocal (H. Bischler pers. comm. 1996) and it seems better to retain the name *T. hypophylla* until further work is done.

9. Schuster (1980c) proposed placing *Dendromastigophora* (Lepicoleaceae) in a new family, Mastigophoraceae. Grolle (1983a) has not accepted this rearrangement. Schuster (1987) has proposed extending the Trichocoleaceae to include *Archeophylla*, *Isophyllaria*, *Temnoma*, *Eotrichocolea*, *Leiomitra* and *Trichocolea*. I have followed both of Schuster's rearrangements.

10. Hässel de Menendez & Solari (1972) made *Marsupidium* a synonym of *Tylimanthus* on the basis that some of the South American species were intermediate in the position of the gynoeceum and the differentiation of the stem cortex. Hamlin (1972) followed this opinion, but Grolle (1989) stated that in *Tylimanthus* species, the male and female gametangia are never on short basal branches that lack normal vegetative leaves, and that for Neotropical species, the distinction between the two genera is unproblematic. I have followed Grolle in maintaining *Marsupidium* as a genus.

11. Schuster (1985a) published the name *Acrosyphus nitidissimus* R.M.Schust. and made a combination in

*Acrosyphus* for *Neesiosyphus phoenicorbizus*. The genus *Acrosyphus* R.M.Schust is an illegitimate homonym of *Acrosyphus* Leveille. Schuster (1985b) published the genus *Austrosyphus* (16 July 1985) just one week prior to the publication of the name *Acrosyphella* Kitag. & Grolle (24 July 1985) for the same genus.

12. *Taxilejeunea austrigena* is an unpublished name in Schuster (1992b) which is based on a J.K. Bartlett specimen that is *Stenolejeunea apiculata* (Sande Lac.) R.M.Schust. (R. Grolle pers. comm. 1996).

13. *Lopholejeunea knightii* Steph. is a name based on a New Zealand type overlooked by Hamlin (1973).

## Main References to Genera

This list provides a guide to the most important literature on the New Zealand species in each genus. It is not comprehensive, but indicates where the most important discussion of a genus is to be found. For many of these genera, Allison & Child (1975) and Scott (1985) will be sufficient for making identifications.

Acrobolbus	
Acrochila	Inoue & Schuster 1971
Acrolejeunea	Gradstein 1975
Acrolophozia	Schuster 1966a, 1996c
Acromastigum	Hodgson 1954; Grolle, 1964
Adelanthus	Grolle 1972, Engel 1991f
Allisonia	Schuster 1964c
Allisoniella	Schuster 1971b, 1992b
Anastrophyllum	Schuster 1966a
Andrewsianthus	Schuster 1968a
Aneura	Brown 1989
Anthelia	Schuster 1974b
Anthoceros	Campbell 1982b
Archeophylla	Schuster 1966b
Archilejeunea	Thiers & Gradstein 1989
Asterella	Campbell 1966b
Austrofossombronia	Schuster 1994
Austrolejeunea	Grolle 1973, 1992; Schuster 1981, 1992b
Austrolophozia	Schuster 1968a
Austrometzgeria	Kuwahara 1966
Austrosyphus	Schuster 1985a, Kitagawa & Grolle 1985

Balantiopsis	Engel 1968, 1997		Engel & Schuster 1994
Bazzania	Engel & Schuster 1988, Engel & Merrill 1994	Harpalejeunea	Grolle 1980a
Blepharidophyllum	Grolle 1965a	Hepatostolonophora	Engel 1979
Bragginsella	Schuster 1997	Herbertus	Allison & Child 1975
Calypogeia	Schuster 1969	Herzogianthus	Schuster 1974a, 1987
Cephalolobus	Schuster 1966a	Herzogobryum	Grolle 1966, 1975a; Schuster 1980c, 1996c
Cephalomitrium	Schuster 1995, 1996a, 1996c	Heteroscyphus	Hodgson 1943
Cephalozia	Schuster 1974b	Hygrolembidium	Schuster & Engel 1987
Cephaloziella	Schuster 1971, Glenny 1996a, Schuster 1996a	Hymenophyton	Campbell, Markham & Porter 1975
Chaetophyllopsis	Schuster 1974a	Isolembidium	Schuster & Engel 1987
Chandonanthus	Allison & Child 1975	Isophyllaria	Schuster 1966b
Cheilolejeunea	Grolle 1982, Schuster 1985a	Isotachis	Hatcher 1961
Chiloscyphus	Hodgson 1953; Engel 1991b, 1991d, 1992, 1993; Hässel de Menendez 1995a, 1995b	Jackiella	Schuster 1971b
Chloranthelia	Schuster & Engel 1987	Jamesoniella	Grolle 1971, Vana 1975
Clandarium	Schuster 1983	Jubulopsis	Schuster 1970, 1996b
Clasmatocolea	Engel 1980, 1990a; Hässel de Menendez 1996	Jungermannia	Vana 1975
Cololejeunea	Schuster 1968a, 1985; Braggins, 1997	Kurzia	Schuster 1980a, Engel & Merrill 1996
Colura	Jovet-Ast 1980	Kymatolejeunea	Grolle 1984, Glenny 1996b
Cryptochila	Grolle 1971	Lamellocolea	Engel 1991c
Dendroceros	Campbell 1986	Leiomitra	Schuster 1980c
Dendromastigophora	Schuster 1987	Lejeunea	
Diplasiolejeunea	Grolle 1975b	Lembidium	Schuster & Engel 1987
Diplophyllum	Schuster 1968b	Lepicolea	Scott 1960
Drepanolejeunea		Lepidogyna	Schuster 1980c
Drucella	Schuster 1980a, Boesen 1982	Lepidolaena	Grolle 1967
Dumortiera		Lepidozia	Hodgson 1956
Echinolejeunea	Allison & Child 1975, Schuster 1992b	Leptolejeunea	Schuster 1980b
Eoisotachis	Schuster 1968a	Leptophyllopsis	Scott 1985
Eotrichocolea	Schuster 1963	Leptoscyphus	
Fossombronia	Campbell 1988, 1993	Lethocolea	Scott 1985, Scott & Beckmann 1987
Frullania	Hodgson 1949, Hattori 1979a, 1979b, 1983	Lopholejeunea	
Gackstroemia	Schuster 1971b	Lophozia	Schuster 1968a
Geocalyx	Scott 1985	Lunularia	Campbell 1966a
Goebeliella	Allison & Child 1975	Marchantia	Bischler-Causse 1989
Goebelobryum	Scott 1985	Marsupella	Schuster 1974b, 1996c
Gymnomitrium	Berggren 1898, Schuster 1996c	Marsupidium	Grolle 1989
Haplomitrium	Schuster 1971, Campbell 1987, Bartholemew-Begin 1991,	Mastigolejeunea	Thiers & Gradstein 1989
		Megaceros	Campbell 1984, 1995a
		Megalembidium	Schuster 1980a
		Metahygrobiella	Hodgson 1967a
		Metalejeunea	Grolle 1995
		Metzgeria	Kuwahara 1966, 1980, 1984,

	1987; Engel 1976; Engel & Schuster 1988		Hopcroft & Markham 1993 Scott & Pike 1988
Monoclea	Hässel de Menendez 1957	Targionia	
Neogrollea	Schuster 1971b	Taxilejeunea	Campbell 1977b; Schuster 1992b
Neohodgsonia	Campbell 1953; Bischler-Causse, Glenny & Boisselier-Dubayle 1995	Telaranea	Schuster 1968a, Engel & Schuster 1983, Engel & Merrill 1995, 1996
Nephelolejeunea	Grolle 1973, 1980b; Glenny 1996b	Temnoma	Schuster 1966c
Nothogymnomitrium	Schuster 1996c	Treubia	Schuster & Scott 1969, Schuster 1985a
Pachyglossa	Herzog & Grolle 1958	Triandrophyllum	Solari 1973
Pachyschistochila	Schuster & Engel 1985	Trichocolea	Hatcher 1958, Ratkowsky 1980, Schuster 1968a
Pallavicinia	Hodgson 1967c; Campbell, Markham & Porter 1975	Trichotemnoma	Schuster 1964b, 1966b
Paracromastigum	Schuster & Engel 1996	Tylimanthus	Hässel de Menendez 1972
Paraschistochila	Schuster & Engel 1985	Verdoornia	Schuster 1964c, Inoue 1976
Pedinophyllum	Inoue & Schuster 1971	Wettsteinia	Grolle 1965b
Petalophyllum	Hodgson 1967b	Xenothallus	Schuster 1964c
Phaeoceros	Campbell 1981, 1982a, 1993, 1995b	Zoopsisidella	Schuster 1971b, 1993
Phyllohallia	Schuster 1968a	Zoopsis	Scott 1969
Plagiochasma	Bischler 1979		
Plagiochila	Inoue & Schuster 1971		
Plagiochilion	Inoue & Schuster 1971		
Podomitrium			
Porella	Hattori 1986		
Pseudocephalozia	Schuster & Engel 1974a, Engel & Schuster 1988		
Pseudolophocolea	Schuster & Engel 1982		
Psiloclada	Schuster 1980a, Engel 1985		
Ptilidium	Schuster 1968a		
Ptychanthus	Thiers & Gradstein 1989		
Radula	Hodgson 1944		
Reboulia	Schuster 1992a		
Rectolejeunea	Herzog 1949		
Riccardia	Brown 1989		
Riccia	Campbell 1975, 1977a		
Ricciocarpos	Campbell 1975		
Saccogynidium	Grolle 1961		
Schistochila	Schuster & Engel 1974b, 1985		
Seppeltia	Grolle & Seppelt 1986, Glenny, 1995		
Siphonolejeunea	Grolle 1973		
Stenolejeunea	Grolle 1982		
Stolonivector	Engel 1991a		
Symphogyna	Hodgson 1967c; Campbell,		

Schuster (1984) has illustrations of the following New Zealand species:

*Archeophylla schusteri* (spores and elaters), *Austrolejeunea hispida*, *Austrometzgeria saccata*, *Chaetophyllopsis whiteleggei*, *Clandarium xiphophyllum*, *Dendromastigophora flagellifera* (as *Mastigophora*), *Dumortiera hirsuta*, *Gackstroemia weindorferi*, *Goebeliella cornigera*, *Haplomitrium gibbsiae*, *Herzogianthus vaginatus*, *Hymenophyton flabellatum*, *Isotachis hyallii*, *Jackiella curvata*, *Jubulopsis novae-zelandiae*, *Lunularia cruciata*, *Monoclea forsteri*, *Neogrollea notabilis*, *Neobodgsonia mirabilis*, *Paraschistochila pinnatifolia* (spores and elaters), *Phaeoceros carolineanus*, *Phyllohallia nivicola*, *Plagiochasma rupestre*, *Podomitrium phyllanthus*, *Riccia sorocarpa*, *Ricciocarpos natans*, *Schistochila balfouriana*, *Treubia lacunosa*, *Triandrophyllum subtrifidum*, *Verdoornia succulenta*, *Zoopsis argentea*. Schuster (1992b) has descriptions and illustrations of the oil bodies of some New Zealand species.

## Synopsis of Families and Genera

The order and numbering of families follows Grolle (1983a).

### ANTHOCEROTALES

#### 1 Anthocerotaceae

Anthoceros, Dendroceros, Megaceros,  
Phaeoceros

**CALOBRYALES**

**4 Haplomitriaceae**

Haplomitrium

**JUNGERMANNIALES**

**6 Lepicoleaceae**

Lepicolea

**7 Herbertaceae**

Herbertus, Triandrophyllum

**9 Trichotemnomaceae**

Trichotemnoma

**10 Trichocoleaceae**

Archeophylla, Eotrichocolea, Isophyllaria,  
Leiomitra, Temnoma, Trichocolea

**11 Lepidoziaceae**

Acromastigum, Bazzania, Chloranthes,  
Drucella, Hygrolembidium, Isolembidium,  
Kurzia, Lembidium, Lepidozia,  
Megalembidium, Neogrollea,  
Paracromastigum, Pseudocephalozia,  
Psiloclada, Telaranaea, Zoopsisidella, Zoopsis

**13 Calypogeiaceae**

Calypogeia

**14 Adelanthaceae**

Adelanthus, Wettsteinia

**15 Cephaloziaceae**

Cephalozia, Metahygrobiella

**16 Cephaloziellaceae**

Allisoniella, Cephalomitrium, Cephaloziella

**17 Jackiellaceae**

Jackiella

**18 Antheliaceae**

Anthelia

**19 Jungermanniaceae**

Anastrophyllum, Andrewsianthus,  
Cephalolobus, Chandonanthus, Cryptochila,  
Jamesoniella, Jungermannia, Lophozia

**21 Gymnomitriaceae**

Acrolophozia, Gymnomitrium,  
Herzogobryum, Marsupella,  
Nothogymnomitrium

**22 Scapaniaceae**

Blepharidophyllum, Clandarium,

Diplophyllum

**23 Geocalycaceae**

Chiloscyphus, Clasmatocolea, Geocalyx,  
Hepatostolonophora, Heteroscyphus,  
Lamellocolea, Leptophyllopsis,  
Leptoscyphus, Pachyglossa,  
Pseudolophocolea, Saccogynidium,  
Stolonivector

**24 Plagiochilaceae**

Acrochila, Pedinophyllum, Plagiochila,  
Plagiochilion

**27 Acrobolbaceae**

Acrobolbus, Austrolophozia,  
Goebelobryum, Lethocolea, Marsupidium,  
Tylimanthus

**28 Schistochilaceae**

Pachyschistochila, Paraschistochila,  
Schistochila

**30 Balantiopsaceae**

Austrosyphus, Balantiopsis, Eoisotachis,  
Isotachis

**33 Radulaceae**

Radula

**34 Ptilidiaceae**

Ptilidium

**34a Mastigophoraceae**

Dendromastigophora

**35 Chaetophyllopsaceae**

Chaetophyllopsis, Herzogianthus

**36 Lepidolaenaceae**

Gackstroemia, Lepidogyna, Lepidolaena

**37 Jubulopsaceae**

Jubulopsis

**38 Porellaceae**

Porella

**39 Goebeliellaceae**

Goebeliella

**40 Frullaniaceae**

Frullania

**42 Lejeuneaceae**

Acrolejeunea, Archilejeunea,  
Austrolejeunea, Cheilolejeunea,  
Cololejeunea, Colura, Diplasiolejeunea,  
Drepanolejeunea, Echinolejeunea,  
Harpalejeunea, Kymatolejeunea, Lejeunea,  
Leptolejeunea, Lopholejeunea,



Mastigolejeunea, Metalejeunea,  
Nephelolejeunea, Ptychanthus,  
Rectolejeunea, Siphonolejeunea,  
Stenolejeunea

METZGERIALES

- 43 **Treubiaceae**  
Treubia
- 44 **Fossombroniaceae**  
Austrofossombronia, Fossombronia,  
Petalophyllum
- 45 **Phyllothalliaceae**  
Phyllothallia
- 47 **Allisoniaceae**  
Allisonia
- 48 **Verdoorniaceae**  
Verdoornia
- 49 **Pallaviciniaceae**  
Pallavicinia, Podomitrium, Seppeltia,  
Symphyogyna, Xenothallus
- 52 **Hymenophytaceae**  
Hymenophyton
- 53 **Aneuraceae**  
Aneura, Riccardia
- 54 **Metzgeriaceae**  
Austrometzgeria, Metzgeria

MONOCLEALES

- 55 **Monocleaceae**  
Monoclea

MARCHANTIALES

- 62 **Targioniaceae**  
Targionia
- 63 **Lunulariaceae**  
Lunularia
- 64 **Wiesnerellaceae**  
Dumortiera
- 66 **Aytoniaceae**  
Asterella, Plagiochasma, Reboulia
- 69 **Marchantiaceae**  
Marchantia, Neohodgsonia

- 72 **Ricciaceae**  
Riccia, Ricciocarpos

**Family uncertain:** Bragginsella (Jungermanniales)

The Checklist

Accepted names are in bold. Synonyms and basionyms that appear in Hamlin (1972, 1973, 1975) and later authors are in regular type and are indented. Author abbreviations follow Brummit & Powell (1992).

ANTHOCEROTAE

- Anthoceros laminiferus** Steph.
- Anthoceros muscoides** Colenso  
Anthoceros helmsii Steph.
- Dendroceros granulatus** Mitt.  
Dendroceros megasporus Herzog  
Dendroceros nodulosus Steph.
- Dendroceros validus** Steph.  
Dendroceros allisonii Herzog
- Megaceros denticulatus** (Lehm.) Steph.
- Megaceros pellucidus** (Colenso) E.A.Hodgs.  
Anthoceros arachnoideus Steph.  
Anthoceros granulatus Colenso  
Anthoceros longispirus Carrington & Pearson  
Anthoceros membranaceus Colenso  
Anthoceros pellucidus Colenso  
Megaceros arachnoideus (Steph.) Steph.  
Megaceros flagellaris (Mitt.) Steph.  
Megaceros grandis (Angstr.) Steph.  
Megaceros longispirus (Carrington & Pearson) Steph.  
Megaceros membranaceus (Colenso) E.A.Hodgs.  
Megaceros zotovii Khanna
- Megaceros giganteus** (Lehm. & Lindenb.) Steph.  
Anthoceros colensoi Mitt.  
Dendroceros giganteus (Lehm. & Lindenb.) Prosk.
- Megaceros leptohymenius** (Hook.f. & Taylor) Steph.  
Anthoceros nostocoides Pearson
- Phaeoceros carolinianus** (Michx.) Prosk.  
Anthoceros affinis Schiffn.

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

*Phaeoceros coriaceus* (Steph.) E.O.Campb. comb. nov.  
*Anthoceros coriaceus* Steph.

*Phaeoceros delicatus* E.O.Campb & Outred

*Phaeoceros hirticalyx* (Steph.) Haseg.  
*Anthoceros hirticalyx* (Steph.) Meijer

**HEPATICAE**

*Acrobolbus cinerascens* (Lehm. & Lindenb.) Bastow

*Acrobolbus concinnus* (Mitt.) Grolle

*Acrobolbus lophocoleoides* (Mitt.) Schiffn.

*Acrobolbus ochrophyllus* (Hook.f. & Taylor)  
 R.M.Schust.

*Acrochila biserialis* (Lehm. & Lindenb.) Grolle

*Acrolejeunea allisonii* Gradst.

*Acrolejeunea mollis* (Hook.f. & Taylor) Schiffn.  
*Ptychocoleus mollis* (Hook.f. & Taylor) Steph.

*Acrolejeunea securifolia* (Endl.) Steph. subsp.  
*securifolia*

*Acrolophozia pectinata* R.M.Schust.

*Acromastigum anisostomum* (Lehm. & Lindenb.)  
 A.Evans var. *anisostomum*

*Acromastigum anisostomum* var. *minutum*  
 E.A.Hodgs.

*Acromastigum brachyphyllum* A.Evans

*Acromastigum cavifolium* R.M.Schust.

*Acromastigum colensoanum* (Mitt.) A.Evans

*Acromastigum cunninghamii* (Steph.) A.Evans

*Acromastigum marginatum* E.A.Hodgs.

*Acromastigum mooreanum* (Steph.) E.A.Hodgs.

*Acromastigum verticale* (Steph.) E.A.Hodgs.

*Adelanthus bisetulus* (Steph.) Grolle

*Pseudomarsupidium piliferum* (Steph.) Herzog

*Adelanthus falcatus* (Hook.) Mitt.

*Adelanthus gemmiparus* (R.M.Schust.) E.A.Hodgs.

*Adelanthus oclusus* (Hook.f. & Taylor) Carrington

*Allisonia cockaynei* (Steph.) R.M.Schust.

*Allisoniella nigra* subsp. *novaezelandiae* R.M.Schust.  
*Cephaloziella nigra* (Rodw.) Grolle

*Allisoniella recurva* R.M.Schust.

*Allisoniella scottii* (R.M.Schust.) R.M.Schust.  
*Protomarsupella scottii* R.M.Schust.

*Anastrophyllum novae-zelandiae* R.M.Schust.

*Anastrophyllum schismoides* (Mont.) Steph.

*Andrewsianthus confusus* (R.M.Schust.) R.M.Schust.

*Andrewsianthus perigonialis* (Hook.f. & Taylor)  
 R.M.Schust.

*Aneura* aff. *novaeguineensis* Hewson

*Aneura alterniloba* (Hook.f. & Taylor) Gottsche,  
 Lindenb. & Nees

*Aneura dentata* Steph.

*Aneura lobata* subsp. *australis* R.M.Schust.

*Aneura pinguis* (L.) Dumort.

*Aneura subaquatica* R.M.Schust.

*Anthelia juratzkana* (Limpr.) Trevis.

*Archeophylla schusteri* (E.A.Hodgs. & Allison)  
 R.M.Schust.

*Archilejeunea olivacea* (Hook.f. & Taylor) Steph.

*Archilejeunea scutellata* (Taylor) Steph.

*Asterella australis* (Hook.f. & Taylor) Verd.

*Asterella tenera* (Mitt.) R.M.Schust.

*Austrolejeunea fragilis* (R.M.Schust.) R.M.Schust.

*Cololejeunea fragilis* R.M.Schust.

*Austrolejeunea hispida* R.M.Schust.

*Austrolejeunea olgae* (R.M.Schust.) R.M.Schust.  
*Siphonolejeunea nudipes* var. *magnicarinata*  
 E.A.Hodgs.

*Austrofossombronia australis* (Mitt.) R.M.Schust.

*Fossombronia australis* Mitt.

*Fossombronia gigantea* Steph.

*Fossombronia naumanii* Schiffn.

*Austrolophozia paradoxa* R.M.Schust.

*Austrolophozia camensis* non (Steph.) Hässel  
 & Solari

*Austrometzgeria saccata* (Mitt.) Kuwah.

*Austroscyphus nitidissimus* (R.M.Schust.)  
 R.M.Schust.

*Acroscyphus nitidissimus* R.M.Schust.

*Austroscyphus phoenicorhizus* (Grolle) R.M.Schust.  
*Acroscyphella phoenicorhiza* (Grolle) Kitag.  
 & Grolle

*Acroscyphus phoenicorhizus* (Grolle)  
 R.M.Schust. & J.J.Engel

*Neesioscyphus phoenicorhizus* Grolle

*Balantiopsis convexiuscula* Berggr.

*Balantiopsis diplophylla* (Hook.f. & Taylor) Mitt. var.  
*diplophylla*

- Balantiopsis diplophylla** var. **hockenii** (Berggr.)  
J.J.Engel & G.L.S.Merrill  
*Balantiopsis glandulifera* Colenso  
*Balantiopsis knightii* Mitt.
- Balantiopsis lingulata** R.M.Schust.
- Balantiopsis montana** (Colenso) J.J.Engel &  
G.L.S.Merrill  
*Chiloscyphus montanus* Colenso
- Balantiopsis rosea** Berggr.
- Balantiopsis tumida** Berggr.
- Balantiopsis verrucosa** J.J.Engel & G.L.S.Merrill
- Bazzania adnexa** (Lehm. & Lindenb.) Trevis. var. **adnexa**  
*Mastigobryum nitens* Colenso
- Bazzania adnexa** var. **aucklandica** (Lindenb. &  
Gottsche) J.J.Engel & G.L.S.Merrill
- Bazzania baileyana** (Steph.) Rodw.
- Bazzania hochstetteri** (Reicht.) E.A.Hodgs.  
*Bazzania mittenii* (Steph.) Steph.
- Bazzania involuta** (Mont.) Trevis. var. **involuta**
- Bazzania involuta** var. **submutica** (Lindenb. &  
Gottsche) J.J.Engel & G.L.S.Merrill
- Bazzania monilinervis** (Lehm. & Lindenb.) Trevis.
- Bazzania nitida** (Web.) Grolle
- Bazzania nova** J.J.Engel & G.L.S.Merrill
- Bazzania novae-zelandiac** (Mitt.) Besch. & C.Massal.
- Bazzania semicordata** (Lindenb. & Gottsche) Kuntze
- Bazzania tayloriana** (Mitt.) Kuntze
- Blepharidophyllum vertebrale** (Gottsche, Lindenb.  
& Nees) Angstr.
- Bragginsella anomala** R.M.Schust.
- Calypogeia sphagnicola** (Arn. & Perss.) Warnst. &  
Loeske
- Cephalolobus hodgsonae** R.M.Schust.
- Cephalolobus squarrosus** R.M.Schust.
- Cephalomitron aterrimum** (Steph.) R.M.Schust. var.  
**aterrimum**  
*Herzogobryum aterrimum* (Steph.) Grolle
- Cephalomitron aterrimum** var. **longiscyphum**  
R.M.Schust.
- Cephalozia bicuspidata** subsp. **austrigena**  
R.M.Schust.
- Cephaloziella aenigmatica** R.M.Schust.
- Cephaloziella byssacea** (Roth) Warnst. subsp.  
**byssacea**
- Cephaloziella crassigyna** (R.M.Schust.)  
R.M.Schust.  
*Cephaloziella aterrima* var. **crassigyna**  
R.M.Schust.
- Cephaloziella densifolia** R.M.Schust. var. **densifolia**
- Cephaloziella densifolia** var. **dubia** R.M.Schust.
- Cephaloziella exigua** R.M.Schust.
- Cephaloziella exiliflora** (Taylor) R.M.Schust.
- Cephaloziella grandiretis** (R.M.Schust.) R.M.Schust.  
*Cephaloziella byssacea* subsp. **grandiretis**  
R.M.Schust.
- Cephaloziella hispidissima** R.M.Schust.
- Cephaloziella invisita** R.M.Schust.
- Cephaloziella muelleriana** R.M.Schust.
- Cephaloziella nothogena** R.M.Schust.
- Cephaloziella pellucida** R.M.Schust.
- Cephaloziella pseudocrassigyna** R.M.Schust.
- Cephaloziella pulcherrima** R.M.Schust. subsp.  
**pulcherrima**
- Cephaloziella pulcherrima** subsp. **sphagnicola**  
R.M.Schust.
- Cephaloziella subspinosa** R.M.Schust.
- Cephaloziella varians** (Gottsche) Steph.  
*Cephaloziella arctica* Bryhn & Douin
- Chaetophyllopsis whiteleggei** (Carrington & Pearson)  
R.M.Schust.
- Chandonanthus squarrosus** (Hook.) Schiffn.
- Cheilolejeunea albiovirens** (Hook.f. & Taylor)  
E.A.Hodgs.  
*Cheilolejeunea aucklandica* (Steph.) H.A.Mill.,  
Bonner & Bisch.
- Cheilolejeunea campbelliensis** (Steph.) R.M.Schust.
- Cheilolejeunea comitans** (Hook.f. & Taylor)  
R.M.Schust.  
*Cheilolejeunea tereticaelyx* (Herzog) Hamlin
- Cheilolejeunea hamlinii** Grolle  
*Cheilolejeunea curnowii* (Steph.) R.M.Schust.  
non *C. curnowii* Steph., 1895  
*Strepsilejeunea curnowii* Steph. 1896
- Cheilolejeunea implexicaulis** (Hook.f. & Taylor)  
R.M.Schust.
- Cheilolejeunea intertexta** (Lindenb.) Steph.  
*Pycnolejeunea glauca* Steph.
- Cheilolejeunea mariana** (Gottsche, Lindenb. & Nees)  
B.Thiers & Gradst.  
*Archilejeunea mariana* (Gottsche, Lindenb. &

- Nees) Steph.
- Cheilolejeunea mimosa** (Hook.f. & Taylor) R.M.Schust.
- Cheilolejeunea novaezeelandiae** R.M.Schust.
- Cheilolejeunea tenella** (Taylor) J.J.Engel & Tan  
Euosmolejeunea tenella (Taylor) Steph.
- Chiloscyphus australis** Hook.f. & Taylor  
Lophocolea hodgsoniae Hamlin
- Chiloscyphus austrigenus** (Hook.f. & Taylor) J.J.Engel & R.M.Schust. subsp. **austrigenus**  
Lophocolea austrigena (Hook.f. & Taylor) Taylor
- Chiloscyphus austrigenus** subsp. **okaritanus** (Steph.) J.J.Engel  
Chiloscyphus okaritanus (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea okaritana Steph.  
Lophocolea gunniana Nees
- Chiloscyphus bispinosus** (Hook.f. & Taylor) J.J.Engel & R.M. Schust  
Lophocolea bispinosa (Hook.f. & Taylor) Taylor
- Chiloscyphus calcareus** (Steph.) J.J.Engel & R.M.Schust.  
Chiloscyphus calcarea Steph.
- Chiloscyphus cheesemanii** (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea cheesemanii Steph.
- Chiloscyphus chlorophyllus** (Hook.f. & Taylor) Mitt.  
Lophocolea bidentata (L.) Dumort.
- Chiloscyphus dallianus** (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea dalliana Steph.
- Chiloscyphus echinellus** (Lindenb. & Gottsche) Mitt.  
Lophocolea echinella Lindenb. & Gottsche
- Chiloscyphus erectifolius** (Steph.) Steph.
- Chiloscyphus fissistipulus** (Steph.) J.J.Engel & R.M.Schust.  
Heteroscyphus fissistipus (Hook.f. & Taylor) Schiffn.  
Lophocolea fissistipula Steph.
- Chiloscyphus fulvus** (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea fulva Steph.
- Chiloscyphus hattorii** J.J.Engel
- Chiloscyphus helmsianus** (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea helmsiana Steph.
- Chiloscyphus herzogii** J.J.Engel & R.M.Schust.  
Lophocolea decurrens Herzog
- Chiloscyphus inflexifolius** (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea inflexifolia Steph.
- Chiloscyphus insularis** (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea insularis Steph.
- Chiloscyphus lentus** (Hook.f. & Taylor) J.J.Engel & R.M.Schust.  
Lophocolea lenta (Hook.f. & Taylor) Taylor
- Chiloscyphus leucophyllus** (Hook.f. & Taylor) Göttsche, Lindenb. & Nees  
Chiloscyphus fulvus (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea leucophylla (Hook.f. & Taylor) Taylor
- Chiloscyphus mittenianus** (Colenso) J.J.Engel  
Isotachis mitteniana Colenso  
Chiloscyphus vulcanicus Colenso
- Chiloscyphus minor** (Nees) J.J.Engel & R.M.Schust.  
Lophocolea minor Nees
- Chiloscyphus multipennus** (Hook.f. & Taylor) J.J.Engel & R.M.Schust.  
Lophocolea multipenna (Hook.f. & Taylor) Hook.f. & Taylor
- Chiloscyphus muricatus** (Lehm.) J.J.Engel & R.M.Schust.  
Lophocolea muricata (Lehm.) Nees
- Chiloscyphus novae-zeelandiae** var. **grandistipulus** (Schiffn.) J.J.Engel  
Lophocolea grandistipulus Schiffn.
- Chiloscyphus novae-zeelandiae** var. **meridionalis** (Steph.) J.J.Engel  
Lophocolea meridionalis Steph.
- Chiloscyphus novae-zeelandiae** (Lehm. & Lindenb.) J.J.Engel & R.M.Schust. var. **novae-zeelandiae**  
Lophocolea novae-zeelandiae (Lehm. & Lindenb.) Nees
- Chiloscyphus pallidus** (Mitt.) J.J.Engel & R.M.Schust.  
Lophocolea pallida Mitt.
- Chiloscyphus perpusillus** (Hook.f. & Taylor) J.J.Engel  
Jungermannia perpusilla (Hook.f. & Taylor) Taylor  
Lophocolea perpusilla Hook.f. & Taylor

- Chiloscyphus semiteres** var. **caniculatus** (Gottsche, Lindenb. & Nees) J.J.Engel  
Chiloscyphus caniculatus Gottsche, Lindenb. & Nees  
Lophocolea caniculata (Gottsche, Lindenb. & Nees) Steph.
- Chiloscyphus semiteres** (Lehm.) Lehm. & Lindenb. var. **semiteres**  
Lophocolea semiteres (Lehm.) Mitt.
- Chiloscyphus spiniferus** (Hook.f. & Taylor) J.J.Engel & R.M.Schust.  
Lophocolea spinifera (Hook.f. & Taylor) Taylor
- Chiloscyphus subporosus** (Mitt.) J.J.Engel & R.M.Schust.  
Lophocolea subporosa Mitt.
- Chiloscyphus variabilis** (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea variabilis Steph.
- Chiloscyphus villosus** (Steph.) J.J.Engel & R.M.Schust.  
Lophocolea villosa Mitt.
- Chloranthes berggrenii** (Herzog) R.M.Schust.  
Chloranthes filosa (E.A.Hodgs.) R.M.Schust.
- Clandarium xiphophyllum** (Grolle) R.M.Schust.  
Blepharidophyllum xiphophyllum Grolle
- Clasmatocolea crassiretis** (Herzog) Grolle  
Chiloscyphus crassiretis (Herzog) Hässel
- Clasmatocolea humilis** (Hook.f. & Taylor) Grolle var. **humilis**  
Chiloscyphus humilis (Hook.f. & Taylor) Hässel
- Clasmatocolea inflexispina** (Hook.f. & Taylor) J.J.Engel  
Chiloscyphus amplexans (Mitt.) J.J.Engel & R.M.Schust.  
Chiloscyphus inflexispinus (Hook.f. & Taylor) J.J.Engel & R.M.Schust.  
Clasmatocolea amplexans (Mitt.) J.J.Engel  
Lophocolea amplexans Mitt.
- Clasmatocolea notophylla** (Hook.f. & Taylor) Grolle  
Chiloscyphus notophyllus (Hook.f. & Taylor) Hässel
- Clasmatocolea strongylophylla** (Hook.f. & Taylor) Grolle  
Chiloscyphus strongylophyllus (Hook.f. & Taylor) Hässel
- Clasmatocolea vermicularis** (Lehm.) Grolle  
Chiloscyphus vermicularis (Lehm.) Hässel
- Cololejeunea cardiocarpa** (Mont.) R.M.Schust.
- Cololejeunea cucullifolia** (Herzog) E.A.Hodgs.
- Cololejeunea ellipsoidea** R.M.Schust.
- Cololejeunea falcidentata** R.M.Schust.
- Cololejeunea hodgsoniae** (Herzog) E.A.Hodgs.
- Cololejeunea inflexifolia** R.M.Schust.
- Cololejeunea laevigata** (Mitt.) R.M.Schust.
- Cololejeunea mamillata** (Angstr.) R.M.Schust.
- Cololejeunea minutissima** (Sm.) Schiffn.
- Cololejeunea pulchella** (Mitt.) R.M.Schust.
- Colura pulcherrima** var. **bartlettii** Ast
- Colura saccophylla** E.A.Hodgs. & Herzog
- Cryptochila acinacifolia** (Hook.f. & Taylor) Grolle
- Cryptochila grandiflora** (Lindenb. & Gottsche) Grolle
- Cryptochila nigrescens** (Steph.) Grolle
- Cryptochila pseudocclusa** (E.A.Hodgs.) R.M.Schust.
- Dendromastigophora flagellifera** (Hook.f.) R.M.Schust.  
Mastigophora flagellifera (Hook.f.) Steph.
- Diplasiolejeunea plicatiloba** (Hook.f. & Taylor) Grolle  
Diplasiolejeunea lyratifolia (Hook.f. & Taylor) Steph.  
Drepanolejeunea plicatiloba (Hook.f. & Taylor) Steph.
- Diplasiolejeunea pusilla** Grolle
- Diplophyllum dioicum** R.M.Schust.
- Diplophyllum domesticum** (Gottsche) Steph.
- Diplophyllum verrucosum** R.M.Schust.
- Drepanolejeunea aucklandica** Steph.
- Drepanolejeunea vesiculosa** subsp. **euvesiculosa** Herzog
- Drucella integrispula** (Steph.) E.A.Hodgs.
- Dumortiera hirsuta** (Sw.) Nees  
Marchantia hirsuta Sw.
- Echinolejeunea papillata** (Mitt.) R.M.Schust.
- Eoisotachis stephanii** (Salm.) R.M.Schust.
- Eotrichocolea polyacantha** (Hook.f. & Taylor) R.M.Schust.
- Fossombronia pusilla** (L.) Nees  
Fossombronia perpusilla (Colenso) Steph.

- Notoclada perpusilla* Colenso  
**Fossombronia reticulata** Steph.  
     *Fossombronia microspora* Herz.  
**Fossombronia wondraczekii** (Corda) Dumort.  
     *Jungermannia wondraczekii* Corda  
**Frullania allanii** E.A.Hodgs.  
**Frullania anomola** E.A.Hodgs.  
**Frullania aterrima** (Hook.f. & Taylor) Hook.f.  
     & Taylor var. **aterrima**  
**Frullania aterrima** var. **lepida** E.A.Hodgs.  
**Frullania aterrima** var. **rostrata** (R.M.Schust.) S.Hatt.  
     *Frullania subrostrata* S.Hatt.  
     *Neohattoria rostrata* R.M.Schust.  
**Frullania deplanata** Mitt.  
**Frullania engelii** S.Hatt.  
**Frullania falciloba** Lehm.  
**Frullania fugax** (Hook.f. & Taylor) Taylor  
**Frullania incumbens** Mitt.  
**Frullania junghuhniana** Gottsche  
**Frullania media** (E.A.Hodgs.) S.Hatt.  
     *Frullania fugax* var. *media* E.A.Hodgs.  
**Frullania monocera** (Hook.f. & Taylor) Taylor  
     *Frullania novae-zealandiae* Colenso  
     *Frullania hampeana* Nees  
**Frullania nicholsonii** E.A.Hodgs.  
**Frullania patula** Mitt.  
     *Frullania kirkii* Steph.  
**Frullania ptychantha** Mont.  
**Frullania pycnantha** (Hook.f. & Taylor) Taylor  
     *Frullania banksiana* Colenso  
**Frullania reptans** Mitt.  
**Frullania rostellata** Mitt.  
**Frullania rostrata** (Hook.f. & Taylor) Hook.f. &  
     Taylor  
     *Frullania congesta* (Hook.f. & Taylor) Hook.f.  
     & Taylor  
     *Frullania dissitifolia* Steph.  
     *Frullania grollei* Hamlin  
     *Frullania novaustralis* S.Hatt.  
     *Neohattoria australis* S.Hatt.  
     *Schusterella australis* (R.M.Schust.) S.Hatt.,  
     Sharp & Mizut.  
**Frullania scandens** Mont.  
**Frullania setchellii** Pearson  
     *Frullania falciloba* var. *setchellii* (Pearson)  
     E.A.Hodgs.
- Frullania solanderiana** Colenso  
**Frullania spinifera** Taylor  
**Frullania squarrosula** (Hook.f. & Taylor) Taylor  
**Frullania subhampeana** E.A.Hodgs.  
**Frullania svihlana** S.Hatt.
- Gackstroemia alpina** R.M.Schust.  
**Gackstroemia weindorferi** (Herzog) Grolle  
**Geocalyx caledonicus** Steph.  
**Goebeliella cornigera** (Mitt.) Steph.  
**Goebelobryum unguiculatum** (Hook.f. & Taylor)  
     Grolle  
**Gymnomitrium cuspidatum** (Berggr.) R.M.Schust.  
**Gymnomitrium strictum** (Berggr.) R.M.Schust. var.  
     **strictum**  
**Gymnomitrium strictum** (Berggr.) R.M.Schust. var.  
     **inaequalis** R.M.Schust.
- Haplomitrium gibbsiae** (Steph.) R.M.Schust.  
**Haplomitrium minutum** (E.O.Campb.) J.J.Engel &  
     R.M.Schust.  
     *Haplomitrium hookeri* var. *minutum*  
     (E.O.Campb.) Bartholomew-Began  
     *Steeeromitrium minutum* E.O.Campb.  
**Haplomitrium ovalifolium** R.M.Schust.  
**Harpalejeunea filicuspis** (Steph.) Mizut.  
**Harpalejeunea latitans** (Hook.f. & Taylor) Grolle  
     *Drepanolejeunea latitans* (Hook.f. & Taylor)  
     Steph.  
     *Drepanolejeunea minima* Steph.  
     *Harpalejeunea colensoi* Steph.
- Hepatostolonophora paucistipula** (Rodw.) J.J.Engel  
     *Clasmatocolea paucistipula* (Rodw.) Grolle  
**Hepatostolonophora rotata** var. **perssonii**  
     (R.M.Schust.) J.J.Engel  
     *Calyptrocolea perssonii* R.M.Schust.  
     *Clasmatocolea rotata* (Hook.f. & Taylor)  
     Grolle  
     *Stolonophora perssonii* (R.M.Schust.) J.J.Engel  
     & R.M.Schust.
- Hepatostolonophora rotata** (Hook.f. & Taylor)  
     J.J.Engel var. **rotata**  
     *Clasmatocolea rotata* (Hook.f. & Taylor)  
     Grolle  
**Herbertus alpinus** (Steph.) E.A.Hodgs.  
**Herzogianthus sanguineus** R.M.Schust.

- Herzogianthus vaginatus** (Herzog) R.M.Schust.  
**Herzogobryum atrocapillum** (Hook.f. & Taylor)  
 Grolle  
**Herzogobryum filiforme** R.M.Schust.  
**Herzogobryum vermiculare** (Schiffn.) Grolle  
**Herzogobryum teres** (Carrington & Pearson) Grolle  
**Heteroscyphus allodontus** (Hook.f. & Taylor)  
 J.J.Engel & R.M.Schust.  
 Chiloscyphus allodontus (Hook.f. & Taylor)  
 E.A.Hodgs.  
**Heteroscyphus ammophilus** (Colenso) R.M.Schust.  
 Chiloscyphus ammophilus Colenso  
**Heteroscyphus argutus** (Reinw., Blume & Nees)  
 Schiffn.  
 Chiloscyphus argutus (Reinw., Blume & Nees)  
 Nees  
**Heteroscyphus biciliatus** (Hook.f. & Taylor) J.J.Engel  
 Chiloscyphus biciliatus (Hook.f. & Taylor)  
 Gottsche, Lindenb. & Nees  
 Lophocolea biciliata (Hook.f. & Taylor) Mitt.  
**Heteroscyphus billardierei** (Schwaegr.) Schiffn.  
 Chiloscyphus billardierei (Schwaegr.) Nees  
**Heteroscyphus circumdentatus** (W.Martin &  
 E.A.Hodgs.) J.J.Engel & Schust.  
 Chiloscyphus circumdentatus W.Martin &  
 E.A.Hodgs.  
**Heteroscyphus coalitis** (Hook.f.) Schiffn.  
 Chiloscyphus coalitis (Hook.) Nees  
**Heteroscyphus colensoi** (Mitt.) Schiffn.  
 Chiloscyphus colensoi (Mitt.) Bastow  
**Heteroscyphus compactus** (Colenso) R.M.Schust.  
 Chiloscyphus compactus Colenso  
**Heteroscyphus cuneistipulus** (Steph.) Schiffn.  
 Chiloscyphus cuneistipulus Steph.  
**Heteroscyphus cymbaliferus** (Hook.f. & Taylor)  
 J.J.Engel & R.M.Schust.  
 Tetracymbaliella cymbalifera (Hook.f. &  
 Taylor) Grolle  
**Heteroscyphus decipiens** (Gottsche) J.J.Engel &  
 R.M.Schust.  
 Tetracymbaliella decipiens (Gottsche) Grolle  
**Heteroscyphus erraticus** (W.Martin & E.A.Hodgs.)  
 J.J.Engel & R.M.Schust.  
 Chiloscyphus erraticus W.Martin &  
 E.A.Hodgs.  
**Heteroscyphus furcistipulus** (E.A.Hodgs.)  
 J.J.Engel & R.M.Schust.  
 Chiloscyphus furcistipulus E.A.Hodgs.  
**Heteroscyphus hastatus** (E.A.Hodgs.) J.J.Engel &  
 R.M.Schust.  
 Chiloscyphus hastatus E.A.Hodgs.  
**Heteroscyphus knightii** (Steph.) J.J.Engel &  
 R.M.Schust.  
 Heteroscyphus tridentatus (Mitt.) J.J.Engel &  
 R.M.Schust.  
**Heteroscyphus lingulatus** (Colenso) J.J.Engel &  
 R.M.Schust.  
 Chiloscyphus lingulatus Colenso  
**Heteroscyphus lyallii** (Mitt.) R.M.Schust.  
 Chiloscyphus lyallii Mitt.  
**Heteroscyphus multispinus** (E.A.Hodgs. & Allison)  
 J.J.Engel & R.M.Schust  
 Chiloscyphus multispinus E.A.Hodgs. &  
 Allison  
**Heteroscyphus normalis** (Steph.) R.M.Schust.  
 Chiloscyphus normalis (Steph.) E.A.Hodgs.  
**Heteroscyphus physanthus** (Hook.f. & Taylor)  
 Schiffn.  
 Chiloscyphus physanthus (Hook.f. & Taylor)  
 Mitt.  
**Heteroscyphus planiusculus** (Hook.f. & Taylor)  
 Engel  
 Chiloscyphus planiusculus (Hook.f. & Taylor)  
 J.J.Engel & R.M.Schust.  
 Lophocolea planiuscula (Hook.f. & Taylor)  
 Taylor  
**Heteroscyphus polycladus** (Hook.f. & Taylor)  
 R.M.Schust.  
 Chiloscyphus polycladus (Hook.f. & Taylor)  
 Mitt.  
**Heteroscyphus renistipulus** (Steph.) Schiffn.  
 Chiloscyphus renistipulus Steph.  
**Heteroscyphus sinuosus** (Hook.) Schiffn.  
 Chiloscyphus sinuosus (Hook.) Nees  
**Heteroscyphus splendidus** (E.A.Hodgs.) J.J.Engel &  
 R.M.Schust.  
 Chiloscyphus splendidus E.A.Hodgs.  
**Heteroscyphus supinus** (Hook.f. & Taylor)  
 R.M.Schust.  
 Chiloscyphus supinus Hook.f. & Taylor  
**Heteroscyphus triacanthus** (Hook.f. & Taylor)

- Schiffn.  
*Chiloscyphus triacanthus* (Hook.f. & Taylor) Steph.
- Hygrolembidium acrocladum* (Berggr.) R.M.Schust.  
*Hygrolembidium australe* (Steph.) Grolle  
*Hygrolembidium rigidum* R.M.Schust. & J.J.Engel  
*Hygrolembidium triquetrum* J.J.Engel & R.M.Schust.
- Hymenophyton flabellatum* (Labill.) Trevis.  
*Hymenophyton leptopodum* (Hook.f. & Taylor) Steph.
- Isolembidium anomalum* (Rodw.) Grolle var.  
*cucullatum* (E.A.Hodgs.) J.J.Engel & R.M.Schust.  
*Isolembidium cucullatum* (E.A.Hodgs.) R.M.Schust.
- Isophyllaria attenuata* (Rodw.) E.A.Hodgs.  
*Isophyllaria murrayana* E.A.Hodgs. & Allison
- Isotachis intortifolia* (Hook.f. & Taylor) Gottsche  
*Isotachis lyallii* Mitt.  
*Isotachis montana* Colenso  
*Isotachis westlandica* (E.A.Hodgs.) R.M.Schust.
- Jackiella curvata* Allison & E.A.Hodgs.  
*Jamesoniella colorata* (Lehm.) Schiffn.  
*Jamesoniella kirkii* Steph.  
*Jamesoniella monodon* (Lehm.) N. Kitag.  
*Cuspidatula monodon* (Lehm.) Steph.  
*Jamesoniella tasmanica* (Hook.f. & Taylor) Steph.  
*Jubulopsis novae-zelandiae* (E.A.Hodgs. & Arn.) R.M.Schust.
- Jungermannia inundata* Hook.f. & Taylor  
*Solenostoma rufiflora* (Colenso) R.M.Schust. [nom inval. and synonym in Vana 1975]  
*Jungermannia rufiflora* Colenso
- Jungermannia orbiculata* (Colenso) Grolle  
*Jungermannia hodgsoniae* Grolle
- Jungermannia totopapillosa* E.A.Hodgs.
- Kurzia calcarata* (Steph.) Grolle  
*Kurzia temnomoides* R.M.Schust.
- Kurzia compacta* (Steph.) Grolle  
*Kurzia fragilifolia* R.M.Schust.  
*Kurzia helophila* R.M.Schust.  
*Kurzia hippuroides* (Hook.f. & Taylor) Grolle var.
- hippuroides**  
*Jungermannia dispar* Mont. ex Taylor & Hook.f.  
*Kurzia allisonii* (Herzog) Grolle  
*Lepidozia allisonii* Herz.  
*Telaranea dispar* (Mont. ex Taylor & Hook.f.) E.A.Hodgs.
- Kurzia hippuroides* var. *ornata* J.J.Engel & G.L.S.Merrill
- Kurzia quadriseta* Grolle var. *quadriseta*  
*Kurzia quadriseta* var. *trilobata* R.M.Schust.  
*Kurzia pallescens* Grolle
- Kurzia quinquespina* J.J.Engel & G.L.S.Merrill  
*Kurzia tenax* (Grev.) Grolle  
*Kymatolejeunea bartlettii* Grolle
- Lamellocolea granditexta* (Steph.) J.J.Engel  
*Lophocolea granditexta* Steph.
- Leiomitra lanata* (Hook.) R.M.Schust.  
*Trichocolea lanata* (Hook.) Nees
- Lejeunea anisophylla* Mont.  
*Lejeunea cyanophora* R.M.Schust.  
*Lejeunea epiphylla* Colenso [nom. illeg., non L. *epiphylla* Mitt. 1861 of Sri Lanka]  
*Lejeunea flava* (Sw.) Nees  
*Lejeunea gracilipes* (Taylor) Steph.  
*Taxilejeunea gracilipes* (Taylor) Steph.
- Lejeunea helmsiana* Steph.  
*Lejeunea primordialis* (Hook.f. & Taylor) Taylor  
*Lejeunea sinclairii* Spruce [nom. illeg., non L. *sinclairii* Mitt. 1862 of Fiji].  
*Lejeunea tumida* Mitt.
- Lembidium longifolium* R.M.Schust.  
*Lembidium nutans* (Hook.f. & Taylor) Mitt.  
*Lepicolea attenuata* (Mitt.) Steph.  
*Lepicolea scolopendra* (Hook.) Trevis.  
*Lepidogyna hodgsoniae* (Grolle) R.M.Schust.  
*Lepidolaena hodgsoniae* Grolle  
*Lepidolaena berggrenii* E.A.Hodgs.  
*Lepidolaena clavigera* (Hook.f.) Trevis.  
*Lepidolaena palpebrifolia* (Hook.f.) Trevis.  
*Lepidolaena reticulata* (Hook.f. & Taylor) Trevis.  
*Lepidolaena taylorii* (Gottsche) Trevis.  
*Lepidozia concinna* Colenso  
*Lepidozia glaucophylla* (Hook.f. & Taylor) Taylor  
*Lepidozia filamentosa* (Lehm. & Lindenb.) Lehm. &



- Lindenb.  
**Lepidozia kirkii** Steph.  
**Lepidozia laevifolia** (Hook.f. & Taylor) Taylor  
**Lepidozia microphylla** (Hook.) Lindenb.  
**Lepidozia obtusiloba** Steph.  
**Lepidozia pendulina** (Hook.) Lindenb.  
**Lepidozia procera** Mitt.  
**Lepidozia setigera** Steph.  
**Lepidozia spinosissima** (Hook.f. & Taylor) Mitt.  
**Lepidozia ulothrix** (Schwaegr.) Lindenb.  
**Leptolejeunea elliptica** subsp. **subacuta** (A.Evans)  
 R.M.Schust.  
**Leptophyllopsis laxus** (Mitt.) R.M.Schust.  
**Leptoscyphus innovatus** (E.A.Hodgs.) J.J.Engel  
 Chiloscyphus innovatus (E.A.Hodgs.) J.J.Engel  
 & R.M.Schust.  
 Lophocolea innovata E.A.Hodgs.  
**Lethocolea pansa** (Taylor) G.A.M.Scott &  
 K.Beckmann  
 Jungermannia pansa Taylor  
 Lethocolea squamata (Taylor) E.A.Hodgs.  
 Podanthe squamata Taylor  
**Lopholejeunea colensoi** Steph. [an invalid name un-  
 less the genus name Lopho-Lejeunea Steph.  
 is accepted]  
**Lopholejeunea knightii** Steph.  
**Lopholejeunea plicatiscypha** (Hook.f. & Taylor)  
 Steph.  
**Lophozia autoica** R.M.Schust. var. **autoica**  
**Lophozia autoica** var. **subalpina** R.M.Schust.  
**Lophozia druceae** Grolle & E.A.Hodgs.  
**Lophozia excisa** (Dicks.) Dumort.  
**Lophozia herzogiana** E.A.Hodgs. & Grolle  
**Lophozia multicuspidata** (Hook.f. & Taylor) Grolle  
**Lophozia nivicola** R.M.Schust.  
**Lophozia pumicicola** Berggr.  
**Lunularia cruciata** (L.) Dumort.
- Marchantia berteriana** Lehm. & Lindenb.  
**Marchantia foliacea** Mitt.  
**Marchantia macropora** Mitt.  
**Marchantia pileata** Mitt.  
 Marchantia pallida Steph.  
**Marchantia polymorpha** var. **aquatica** Nees  
**Marsupella sparsifolia** (Lindb.) Dumort. subsp. **childii**  
 R.M.Schust.  
**Marsupella sprucei** (Limpr.) Bernet  
 Marsupella ustulata (Huebener) Spruce 1901  
 [nom. illeg., non (Huebener) Spruce ex  
 Pearson 1891]  
**Marsupidium epiphytum** Colenso  
 Tylimanthus epiphytus (Colenso) Hamlin  
**Marsupidium knightii** Mitt.  
 Tylimanthus knightii (Mitt.) Hässel &  
 Solari  
 Tylimanthus spinosus Steph.  
**Marsupidium perpusillum** (Colenso) E.A.Hodgs.  
 Tylimanthus perpusillum Colenso  
**Marsupidium surculosum** (Nees) Schiffn  
 Marsupidium abbreviatum (Hook.f. & Taylor)  
 Steph.  
 Tylimanthus surculosus (Nees) Hamlin  
**Marsupidium setulosum** (Mitt.) Watts  
 Tylimanthus setulosus (Mitt.) Hamlin  
**Mastigolejeunea anguiformis** (Hook.f. & Taylor)  
 B.Thiers & Gradst.  
 Thysananthus anguiformis (Hook.f. & Taylor)  
 Taylor  
**Megalembidium insulanum** (W.Martin &  
 E.A.Hodgs.) R.M.Schust.  
 Kurzia insulana (W.Martin) Grolle  
**Metahygrobiella cylindrica** E.A.Hodgs. & Herzog  
**Metahygrobiella drucei** R.M.Schust.  
**Metalejeunea cucullata** (Reinw., Blume & Nees)  
 Grolle  
 Lejeunea cucullata (Reinw., Blume & Nees)  
 Nees  
 Microlejeunea cucullata (Reinw., Blume &  
 Nees) Steph.  
**Metzgeria albinea** Spruce  
**Metzgeria alpina** R.M.Schust. & J.J.Engel  
**Metzgeria atrichoneura** Spruce  
**Metzgeria australis** Steph.  
**Metzgeria bartlettii** Kuwah.  
**Metzgeria campbelliensis** Kuwah.  
**Metzgeria chilensis** Steph.  
**Metzgeria crassipaginula** Kuwah.  
**Metzgeria decipiens** (C. Massal.) Schiffn. & Gottsche  
**Metzgeria decrescens** Steph.  
**Metzgeria disciformis** A.Evans  
**Metzgeria epiphylla** A.Evans

- Metzgeria furcata* (L.) Dumort.  
*Metzgeria leptoneura* Spruce  
     *Metzgeria hamata* Lindb. nom. illeg.  
     *Metzgeria colensoi* Steph.  
*Metzgeria pinnata* Steph.  
*Metzgeria rigida* Lindb.  
*Metzgeria violacea* (Ach.) Dumort.  
*Metzgeria vittii* Kuwah.  
*Monoclea forsteri* Hook.
- Neogrollea notabilis* E.A.Hodgs.  
*Neohodgsonia mirabilis* (Perss.) Perss.  
*Nephelolejeunea conchophylla* Grolle  
*Nephelolejeunea hamata* Grolle  
*Nephelolejeunea papillosa* Glenny  
*Nothogymnomitrium erosum* (Carrington & Pearson)  
     R.M.Schust.  
     *Herzogobryum erosum* (Carrington & Pearson) Grolle
- Pachyglossa tenacifolia* (Hook.f. & Taylor) Herzog & Grolle  
*Pachyschistochila altissima* (E.A.Hodgs.)  
     R.M.Schust. & J.J.Engel subsp. *altissima*  
     *Schistochila altissima* E.A.Hodgs.  
*Pachyschistochila berggrenii* J.J.Engel & R.M.Schust.  
*Pachyschistochila childii* R.M.Schust. & J.J.Engel  
*Pachyschistochila colensoana* (Steph.) R.M.Schust.  
     & J.J.Engel  
     *Schistochila colensoana* Steph.  
     *Schistochila pseudokirkiana* R.M.Schust.  
*Pachyschistochila latiloba* R.M.Schust. & J.J.Engel  
*Pachyschistochila nivicola* R.M.Schust. & J.J.Engel  
*Pachyschistochila papillifera* (R.M.Schust.)  
     R.M.Schust. & J.J.Engel  
     *Schistochila papillifera* R.M.Schust.  
     *Schistochila ruahinensis* E.A.Hodgs.  
*Pachyschistochila parvistipula* (Rodw.) R.M.Schust.  
     & J.J.Engel  
     *Schistochila parvistipula* Rodw.  
*Pachyschistochila subhyalina* var. *grandidentata*  
     J.J.Engel & R.M.Schust.  
*Pachyschistochila subhyalina* (R.M.Schust.)  
     R.M.Schust. & J.J.Engel var. *subhyalina*  
     *Schistochila subhyalina* R.M.Schust.  
*Pachyschistochila succulenta* J.J.Engel & R.M.Schust.
- Pachyschistochila trispiralis* (R.M.Schust.)  
     R.M.Schust. & J.J.Engel  
     *Schistochila trispiralis* R.M.Schust.  
*Pachyschistochila virescens* (R.M.Schust.)  
     R.M.Schust. & J.J.Engel  
     *Schistochila virescens* R.M.Schust.  
*Pallavicinia connivens* (Colenso) Steph.  
     *Jensenia connivens* (Colenso) Grolle  
*Pallavicinia innovans* Steph.  
*Pallavicinia lyellii* (Hook.) Gray  
*Pallavicinia rubristipa* Schiffn.  
*Pallavicinia tenuinervis* (Hook.f. & Taylor) Trevis.  
*Pallavicinia xiphoides* (Hook.f. & Taylor) Trevis.  
*Paracromastigum drucei* (R.M.Schust.) R.M.Schust.  
     *Pseudocephaloziella drucei* R.M.Schust.  
*Paracromastigum fiordlandiae* R.M.Schust. &  
     J.J.Engel  
*Paracromastigum fissifolium* (Steph.) R.M.Schust.  
*Paracromastigum furcifolium* (Steph.) R.M.Schust.  
     *Bonneria furcifolia* (Steph.) R.M.Schust.  
*Paracromastigum kirkii* (Steph.) R.M.Schust.  
*Paracromastigum macrostipum* (Steph.) R.M.Schust.  
     *Pseudocephaloziella macrostipa* (Steph.)  
     R.M.Schust.  
*Paraschistochila conchophylla* (E.A.Hodgs. &  
     Allison) R.M.Schust.  
     *Schistochila conchophylla* (E.A.Hodgs. &  
     Allison) R.M.Schust.  
*Paraschistochila pinnatifolia* (Hook.) R.M.Schust.  
     *Schistochila pinnatifolia* (Hook.) Trevis.  
*Paraschistochila tuloides* (Hook.f. & Taylor)  
     R.M.Schust.  
     *Schistochila tuloides* (Hook.f. & Taylor)  
     R.M.Schust.  
*Pedinophyllum monoicum* (Steph.) Grolle  
*Petalophyllum australe* Colenso  
*Phyllothallia nivicola* E.A.Hodgs.  
*Plagiochasma rupestre* (J.R. & G. Forst.) Steph.  
     *Plagiochasma australe* (Hook.f. & Taylor) Nees  
     *Plagiochasma hodgsoniae* Hamlin, nom. illeg.  
*Plagiochila annotina* Lindenb.  
*Plagiochila baileyana* Steph.  
*Plagiochila banksiana* Gottsche var. *banksiana*  
*Plagiochila banksiana* var. *echinophora* Inoue &  
     R.M.Schust.  
*Plagiochila baylisii* Inoue & R.M.Schust.

- Plagiochila caducifolia* Inoue & R.M.Schust.  
*Plagiochila circinalis* (Lehm. & Lindenb.) Lehm. & Lindenb.  
*Plagiochila circumdentata* Steph.  
*Plagiochila deltoidea* Lindenb.  
*Plagiochila fasciculata* Lindenb.  
*Plagiochila fragmentissima* Inoue & R.M.Schust.  
*Plagiochila fruticella* (Hook.f. & Taylor) Hook.f. & Taylor  
*Plagiochila fuscella* (Hook.f. & Taylor) Taylor & Hook.f.  
*Plagiochila gigantea* (Hook.) Dumort.  
*Plagiochila suborbiculata* Colenso  
*Plagiochila gregaria* (Hook.f. & Taylor) Hook.f. & Taylor  
*Plagiochila incurvicolla* (Hook.f. & Taylor) Hook.f. & Taylor  
*Plagiochila lyallii* Mitt. var. *lyallii*  
*Plagiochila lyallii* var. *quinquespina* (Steph.) Inoue & R.M.Schust.  
*Plagiochila obscura* Colenso  
*Plagiochila pleurata* var. *arguta* Steph.  
*Plagiochila pleurata* (Hook.f. & Taylor) Hook.f. & Taylor var. *pleurata*  
*Plagiochila radiculosa* Mitt.  
*Plagiochila ramosissima* (Hook.) Lindenb.  
*Plagiochila retrospectans* (Nees) Nees  
*Plagiochila rutlandii* Steph.  
*Plagiochila sinclairii* Mitt.  
*Plagiochila stephensoniana* Mitt.  
*Plagiochila strombifolia* Taylor  
*Plagiochilium conjugatus* (Hook.) R.M.Schust.  
*Plagiochilium prolifer* (Mitt.) R.M.Schust.  
*Podomitrium phyllanthus* (Hook.) Mitt.  
*Porella elegantula* (Mont.) E.A.Hodgs.  
*Porella pulcherrima* S.Hatt.  
*Pseudocephalozia lepidozioides* R.M.Schust.  
*Lepidozia leptodictyon* Herzog  
*Micrisophylla leptodictyon* (Herzog) E.A.Hodgs.  
*Pseudocephalozia leptodictyon* R.M.Schust.  
*Pseudocephalozia macrostipa* (Steph.) R.M.Schust.  
*Pseudolophocolea denticulata* R.M.Schust. & J.J.Engel  
*Psiloclada clandestina* Mitt.  
*Psiloclada major* (R.M.Schust.) J.J.Engel  
*Ptilidium ciliare* (L.) Hampe  
*Ptychanthus striatus* (Lehm. & Lindenb.) Nees  
  
*Radula allisonii* Castle  
*Radula buccinifera* (Hook.f. & Taylor) Taylor  
*Radula campanigera* Mont.  
*Radula cuspidata* Steph.  
*Radula dentifolia* Grolle  
*Radula fauciloba* Steph.  
*Radula grandis* Steph.  
*Radula marginata* Taylor  
*Radula mittenii* Steph.  
*Radula multimentula* E.A.Hodgs.  
*Radula papulosa* Steph.  
*Radula parviretis* E.A.Hodgs.  
*Radula physoloba* Mont.  
*Radula plicata* Mitt.  
*Radula sainsburiana* E.A.Hodgs. & Allison  
*Radula silvosa* E.A.Hodgs. & Allison  
*Radula tabularis* Steph.  
*Radula uvifera* (Hook.f. & Taylor) Taylor  
*Reboulia hemisphaerica* subsp. *australis* R.M.Schust.  
*Rectolejeunea ocellata* Herzog  
*Riccardia aequicellularis* (Steph.) Hewson  
*Riccardia aequitexta* (Steph.) E.A. Brown  
*Aneura aequitexta* Steph.  
*Aneura effusa* Steph.  
*Riccardia effusa* (Steph.) E.A.Hodgs.  
*Riccardia alba* (Colenso) E.A.Brown  
*Aneura alba* Colenso  
*Aneura crispa* Colenso  
*Aneura vitiensis* Steph.  
*Riccardia vitiensis* (Steph.) E.O.Campb.  
*Riccardia alcornis* (Hook.f. & Taylor) Trevis.  
*Riccardia asperulata* R.M.Schust.  
*Riccardia australis* (Hook.f. & Leveille) E.A. Brown  
*Aneura micropinna* Steph.  
*Riccardia filicina* (Colenso) E.A.Hodgs. nom. inval.  
*Riccardia bipinnatifida* (Colenso) Hewson  
*Riccardia bistrata* Pearson  
*Riccardia breviala* E.A. Brown  
*Riccardia cochleata* (Hook.f. & Taylor) Kuntze  
*Riccardia colensoi* (Steph.) W.Martin

- Riccardia crassa** (Schwaegr.) Carrington & Pearson  
**Riccardia eriocaula** (Hook.) Besch. & C. Massal.  
**Riccardia exilis** E.A. Brown  
**Riccardia furtiva** E.A. Brown & Braggins  
**Riccardia intercellula** E.A. Brown  
**Riccardia lobulata** (Colenso) E.A.Hodgs.  
     *Aneura minima* (Carrington & Pearson) Steph.  
     *Riccardia perpusilla* (Colenso) E.A.Hodgs.  
**Riccardia marginata** (Colenso) Pearson  
     *Riccardia muscoides* (Colenso) E.A.Hodgs.  
**Riccardia multicorpora** E.A.Brown  
**Riccardia nitida** (Colenso) E.A.Hodgs.  
**Riccardia aff. pallidevirens** (Steph.) A.Evans  
**Riccardia papulosa** (Steph.) E.A.Brown  
     *Aneura papulosa* Steph.  
**Riccardia pennata** E.A.Brown  
**Riccardia perspicua** E.A.Brown  
**Riccardia pseudodendroceros** R.M.Schust.  
**Riccardia pusilla** (Steph.) E.A.Brown  
**Riccardia umida** E.A.Brown  
**Riccardia aff. wattiana** (Steph.) Hewson  
**Riccia bifurca** Hoffm.  
**Riccia bullosa** Link  
**Riccia ciliata** Hoffm.  
**Riccia crozalsii** Levier  
**Riccia crystallina** L.  
**Riccia fluitans** L.  
**Riccia glauca** L.  
**Riccia sorocarpa** Bisch.  
     *Riccia vesiculosa* (Carrington & Pearson)  
     Steph.  
**Ricciocarpos natans** (L.) Corda  
  
**Saccogynidium australe** (Mitt.) Grolle  
**Schistochila appendiculata** (Hook.) Trevis.  
**Schistochila balfouriana** (Hook.f. & Taylor) Steph.  
     *Schistochila unguicularis* (Hook.f. & Taylor)  
     Steph.  
**Schistochila chlorophylla** (Colenso) J.J.Engel &  
     R.M.Schust.  
     *Gottschea chlorophylla* Colenso  
**Schistochila ciliata** (Mitt.) Steph.  
**Schistochila glaucescens** (Hook.) A.Evans  
**Schistochila kirkiana** Steph.  
**Schistochila lehmanniana** (Lindenb.) Carrington &  
     Pearson  
  
**Schistochila monticola** R.M.Schust.  
**Schistochila muricata** E.A.Hodgs. & Allison  
**Schistochila nitidissima** R.M.Schust.  
**Schistochila nobilis** (Hook.) Trevis.  
**Schistochila pellucida** R.M.Schust. & J.J.Engel  
**Schistochila pluriciliata** R.M.Schust. & J.J.Engel  
**Schistochila pseudociliata** R.M.Schust.  
**Schistochila repleta** (Hook.f. & Taylor) Steph.  
**Seppeltia succuba** Grolle  
**Siphonolejeunea nudipes** (Hook.f. & Taylor)  
     Herzog  
**Stenolejeunea apiculata** (Sande-Lac.) R.M.Schust.  
     *Lejeunea apiculata* Sande-Lac.  
**Stolonivector fiordlandiae** (E.A.Hodgs.) J.J.Engel  
     *Chiloscyphus fiordlandiae* (E.A.Hodgs.)  
     J.J.Engel & R.M.Schust.  
     *Clasmatocolea fiordlandiae* (E.A.Hodgs.)  
     Grolle  
     *Lophocolea fiordlandiae* E.A.Hodgs.  
**Symphyogyna hymenophyllum** (Hook.) Mont. &  
     Nees  
     *Symphyogyna podophylla* non auct. (Thunb.)  
     Mont. & Nees  
**Symphyogyna subsimplex** Mitt.  
**Symphyogyna tenuinervis** (Hook.f. & Taylor) Grolle  
     *Symphyogyna prolifera* Colenso  
**Symphyogyna undulata** Colenso  
  
**Targionia hypophylla** L.  
**Telaranea capilligera** (Schwaegr.) R.M.Schust.  
**Telaranea centipes** (Taylor) R.M.Schust.  
**Telaranea corticola** (Steph.) E.A.Hodgs.  
**Telaranea dispar** (Mont.) E.A.Hodgs.  
**Telaranea elegans** (Colenso) J.J.Engel & G.L.S.Merrill  
     *Lepidozia elegans* Colenso  
**Telaranea exigua** R.M.Schust.  
**Telaranea gibbsiana** (Steph.) E.A.Hodgs.  
**Telaranea gottscheana** (Lindenb.) E.A.Hodgs.  
**Telaranea herzogii** (E.A.Hodgs.) E.A.Hodgs.  
**Telaranea hodgsoniae** J.J.Engel & G.L.S.Merrill  
**Telaranea lindbergii** (Gottsche) J.J.Engel &  
     G.L.S.Merrill var. **lindbergii**  
     *Lepidozia lindbergii* Gottsche  
**Telaranea lindbergii** var. **complanata** J.J.Engel &  
     G.L.S.Merrill  
**Telaranea lindbergii** var. **mellea** J.J.Engel &

G.L.S.Merrill  
*Telaranea martinii* (E.A.Hodgs.) R.M.Schust.  
*Telaranea meridiana* (E.A.Hodgs.) E.A.Hodgs.  
*Telaranea nivicola* R.M.Schust.  
*Telaranea paludicola* (E.A.Hodgs.) J.J.Engel & G.L.S.Merrill  
*Lepidozia meridiana* var. *paludicola* E.A.Hodgs.  
*Telaranea patentissima* (Hook.f. & Taylor) E.A.Hodgs.  
*Telaranea pennata* J.J.Engel & G.L.S.Merrill  
*Telaranea plumulosa* (Lehm. & Lindenb.) Fulford  
*Telaranea praenitens* (Lehm. & Lindenb.) E.A.Hodgs. var. *praenitens*  
*Telaranea praenitens* var. *dentifolia* J.J.Engel & G.L.S.Merrill  
*Telaranea pulcherrima* (Steph.) R.M.Schust.  
*Telaranea remotifolia* (E.A.Hodgs.) E.A.Hodgs. [nom. illeg. based on *Lepidozia remotifolia* E.A.Hodgs., non *L. remotifolia* Horik 1934, Taiwan.]  
*Telaranea roseana* (Steph.) E.A.Hodgs.  
*Telaranea tetradactyla* (Hook.f. & Taylor) E.A.Hodgs.  
*Telaranea tetrapila* (Taylor) J.J.Engel & G.L.S.Merrill var. *tetrapila*  
*Lepidozia tetrapila* Taylor  
*Telaranea tetrapila* var. *cancellata* (Colenso) J.J.Engel & G.L.S.Merrill  
*Telaranea tuberifera* J.J.Engel & R.M.Schust.  
*Temnoma angustifolium* R.M.Schust.  
*Temnoma palmatum* var. *cuneatum* R.M.Schust.  
*Temnoma palmatum* var. *laxifolium* R.M.Schust.  
*Temnoma palmatum* (Lindb.) R.M.Schust. var. *palmatum*  
*Temnoma palmatum* var. *pseudospiniferum* R.M.Schust.  
*Temnoma paucisetigerum* R.M.Schust.  
*Temnoma pulchellum* (Hook.) Mitt.  
*Temnoma quadrifidum* (Mitt.) E.A.Hodgs. & Allison  
*Temnoma quadripartitum* var. *pseudopungens* R.M.Schust.  
*Temnoma quadripartitum* (Hook.) Mitt. var. *quadripartitum*  
*Temnoma quadripartitum* var. *randii* (S.Arnell) R.M.Schust.  
*Treubia lacunosa* (Colenso) Prosk.

*Treubia pygmaea* R.M.Schust.  
*Triandrophyllum subtrifidum* (Hook.f. & Taylor) Fulford & Hatcher var. *subtrifidum*  
*Triandrophyllum subtrifidum* var. *trifidum* (Gottsche) Solari  
*Triandrophyllum trifidum* (Gottsche) Fulford & Hatcher  
*Trichocolea hatcheri* E.A.Hodgs.  
*Trichocolea julacea* Hatcher  
*Trichocolea mollissima* (Hook.f. & Taylor) Gottsche  
*Trichocolea rigida* R.M.Schust.  
*Trichotemnoma corrugatum* (Steph.) R.M.Schust.  
*Tylimanthus diversifolius* E.A.Hodgs.  
*Tylimanthus saccatus* (Hook.) Mitt.  
*Tylimanthus tenellus* (Taylor) Mitt.  
*Verdoornia succulenta* R.M.Schust.  
*Wettsteinia schusteriana* Grolle  
*Xenothallus vulcanicolus* R.M.Schust.  
*Zoopsisidella caledonica* (Steph.) R.M.Schust.  
*Zoopsis argentea* (Hook.f. & Taylor) Hook.f.  
*Zoopsis ceratophylla* (Spruce) Hamlin  
*Zoopsis leitgebiana* (Carrington & Pearson) Bastow  
*Zoopsis nitida* Glenny, Braggins & R.M.Schust.  
*Zoopsis setulosa* Leitg.

## Index to Synonyms and Basionyms

This index lists all names not in bold in the checklist, and the name they should be sought under. These consist of basionyms cited in literature since Hamlin (1972), and synonyms which were names accepted by Hamlin (1972) or in later literature but are not accepted in this checklist.

*Acrosocyphella phoenicorhiza* - *Austrosocyphus phoenicorhizus*  
*Acrosocyphus nitidissimus* - *Austrosocyphus nitidissimus*  
*Acrosocyphus phoenicorhizus* - *Austrosocyphus phoenicorhizus*

- Aneura aequitexta* - *Riccardia aequitexta*  
*Aneura alba* - *Riccardia alba*  
*Aneura crispa* - *Riccardia alba*  
*Aneura dentata* - *Aneura alterniloba*  
*Aneura effusa* - *Riccardia aequitexta*  
*Aneura micropinna* - *Riccardia australis*  
*Aneura minima* - *Riccardia lobulata*  
*Aneura papulosa* - *Riccardia papulosa*  
*Aneura vitiensis* - *Riccardia alba*  
*Anthoceros affinis* - *Phaeoceros carolinianus*  
*Anthoceros arachnoideus* - *Megaceros pellucidus*  
*Anthoceros carolinianus* - *Phaeoceros carolinianus*  
*Anthoceros colensoi* - *Megaceros giganteus*  
*Anthoceros coriaceus* - *Phaeoceros coriaceus*  
*Anthoceros granulatus* - *Megaceros pellucidus*  
*Anthoceros helmsii* - *Anthoceros muscoides*  
*Anthoceros hirticalyx* - *Phaeoceros hirticalyx*  
*Anthoceros longispinus* - *Megaceros pellucidus*  
*Anthoceros membranaceus* - *Megaceros pellucidus*  
*Anthoceros nostocoides* - *Megaceros leptohymenium*  
*Anthoceros pellucidus* - *Megaceros pellucidus*  
*Archilejeunea mariana* - *Cheilolejeunea mariana*  
*Archilejeunea scutellata* - *Archilejeunea olivacea*  
*Austrolophozia camensis* - *Austrolophozia paradoxa*  
*Balantiopsis glandulifera* - *Balantiopsis diplophylla* var. *hockenii*  
*Balantiopsis knightii* - *Balantiopsis diplophylla* var. *hockenii*  
*Bazzania mittenii* - *Bazzania hochstetteri*  
*Blepharidophyllum xiphophyllum* - *Clandarium xiphophyllum*  
*Bonneria furcifolia* - *Paracromastigum furcifolium*  
*Calyptrocolea perssonii* - *Hepatostolonophora rotata* var. *perssonii*  
*Cephaloziella arctica* - *Cephaloziella varians*  
*Cephaloziella aterrima* var. *crassigyna* - *Cephaloziella crassigyna*  
*Cephaloziella byssacea* subsp. *grandiretis* - *Cephaloziella grandiretis*  
*Cephaloziella nigra* - *Allisoniella nigra* subsp. *novaezelandiae*  
*Cheilolejeunea aucklandica* - *Cheilolejeunea albivirens*  
*Cheilolejeunea curnowii* - *Cheilolejeunea hamlinii*  
*Cheilolejeunea tereticalyx* - *Cheilolejeunea comitans*  
*Chiloscyphus allodontus* - *Heteroscyphus allodontus*  
*Chiloscyphus ammophilus* - *Heteroscyphus ammophilus*  
*Chiloscyphus amplexans* - *Clasmatocolea inflexispina*  
*Chiloscyphus amplexans* - *Clasmatocolea inflexispina*  
*Chiloscyphus argutus* - *Heteroscyphus argutus*  
*Chiloscyphus biciliatus* - *Heteroscyphus biciliatus*  
*Chiloscyphus billardieri* - *Heteroscyphus billardieri*  
*Chiloscyphus calcarea* - *Chiloscyphus calcareus*  
*Chiloscyphus caniculatus* - *Chiloscyphus semiteres* var. *caniculatus*  
*Chiloscyphus circumdentatus* - *Heteroscyphus circumdentatus*  
*Chiloscyphus coalitis* - *Heteroscyphus coalitis*  
*Chiloscyphus colensoi* - *Heteroscyphus colensoi*  
*Chiloscyphus compactus* - *Heteroscyphus compactus*  
*Chiloscyphus crassiretis* - *Clasmatocolea crassiretis*  
*Chiloscyphus cuneistipulus* - *Heteroscyphus cuneistipulus*  
*Chiloscyphus erraticus* - *Heteroscyphus erraticus*  
*Chiloscyphus fiordlandiae* - *Stolonivector fiordlandiae*  
*Chiloscyphus fulvus* - *Chiloscyphus leucophyllus*  
*Chiloscyphus furcistipulus* - *Heteroscyphus furcistipulus*  
*Chiloscyphus hastatus* - *Heteroscyphus hastatus*  
*Chiloscyphus humilis* - *Clasmatocolea humilis*  
*Chiloscyphus inflexispinus* - *Clasmatocolea inflexispina*  
*Chiloscyphus innovatus* - *Leptoscyphus innovatus*  
*Chiloscyphus lingulatus* - *Heteroscyphus lingulatus*  
*Chiloscyphus lyallii* - *Heteroscyphus lyallii*  
*Chiloscyphus montanus* - *Balantiopsis montanus*  
*Chiloscyphus multispinus* - *Heteroscyphus multispinus*  
*Chiloscyphus normalis* - *Heteroscyphus normalis*  
*Chiloscyphus notophyllum* - *Clasmatocolea notophylla*  
*Chiloscyphus okaritanus* - *Chiloscyphus austrigenus* subsp. *okaritanus*  
*Chiloscyphus physanthus* - *Heteroscyphus*

- physanthus  
 Chiloscypus planiusculus - Heteroscypus  
 planiusculus  
 Chiloscypus polycladus - Heteroscypus  
 polycladus  
 Chiloscypus renistipulus - Heteroscypus  
 renistipulus  
 Chiloscypus sinuosus - Heteroscypus sinuosus  
 Chiloscypus splendidus - Heteroscypus  
 splendidus  
 Chiloscypus strongylophyllus - Clasmatocolea  
 strongylophylla  
 Chiloscypus supinus - Heteroscypus supinus  
 Chiloscypus triacanthus - Heteroscypus  
 triacanthus  
 Chiloscypus vermicularis - Clasmatocolea  
 vermicularis  
 Chiloscypus verrucosus - Clasmatocolea verrucosa  
 Chiloscypus vulcanicus - Isotachis mitteniana  
 Chlorantheia filosa - Chlorantheia berggrenii  
 Clasmatocolea fiordlandiae - Stolonivector  
 fiordlandiae  
 Clasmatocolea paucistipula - Hepatostolonophora  
 paucistipula  
 Clasmatocolea rotata - Hepatostolonophora rotata  
 var. perssonii  
 Cololejeunea fragilis - Austrolejeunea fragilis  
 Cuspidatula monodon - Jamesoniella monodon  
 Dendroceros allisonii - Dendroceros validus  
 Dendroceros giganteus - Megaceros giganteus  
 Dendroceros megasporus - Dendroceros granulatus  
 Dendroceros nodulosus - Dendroceros granulatus  
 Diplasiolejeunea lyratifolia - Diplasiolejeunea  
 plicatiloba  
 Drepanolejeunea latitans - Harpalejeunea latitans  
 Drepanolejeunea minima - Harpalejeunea latitans  
 Drepanolejeunea plicatiloba - Diplasiolejeunea  
 lyratifolia  
 Euosmolejeunea tenella - Cheilolejeunea tenella  
 Fossombronia australis - Austrofossombronia  
 australis  
 Fossombronia gigantea - Austrofossombronia  
 australis  
 Fossombronia microspora - Fossombronia reticulata  
 Fossombronia naumanii - Austrofossombronia  
 australis  
 Fossombronia perpusilla - Fossombronia pusilla  
 Frullania banksiana - Frullania pycnantha  
 Frullania congesta - Frullania rostrata  
 Frullania dissitifolia - Frullania rostrata  
 Frullania falciloba var. setchellii - Frullania setchellii  
 Frullania fugax var. media - Frullania media  
 Frullania grollei - Frullania rostrata  
 Frullania hampeana - Frullania monocera  
 Frullania kirkii - Frullania patula  
 Frullania novae-zealandiae - Frullania monocera  
 Frullania novaaustralis - Frullania rostrata  
 Frullania subrostrata - Frullania aterrima var. rostrata  
 Gottschea chlorophylla - Schistochila  
 chlorophylla  
 Haplomitrium hookeri var. minutum - Haplomitrium  
 minutum  
 Harpalejeunea colensoi - Harpalejeunea latitans  
 Herzogobryum aterrimum - Cephalomitrium  
 aterrimum var. aterrimum  
 Herzogobryum erosum - Nothogymnomitrium  
 erosum  
 Heteroscypus fissistipus - Chiloscypus  
 fissistipulus  
 Heteroscypus tridentatus - Heteroscypus knightii  
 Isolembidium cucullatum - Isolembidium anomalum  
 Isophyllaria murrayana - Isophyllaria attenuata  
 Isotachis mitteniana - Chiloscypus mittenianus  
 Jensenia connivens - Pallavicinia connivens  
 Jungermannia dispar - Kurzia hippuroides  
 Jungermannia hodgsoniae - Jungermannia orbiculata  
 Jungermannia pansa - Lethocolea pansa  
 Jungermannia rufiflora - Jungermannia inundata  
 Jungermannia wondraczekii - Fossombronia  
 wondraczekii  
 Kurzia allisonii - Kurzia hippuroides  
 Kurzia insulana - Megalembidium insulanum  
 Kurzia pallescens - Kurzia quadriseta var. trilobata  
 Kurzia temnomoides - Kurzia calcarata  
 Lejeunea apiculata - Stenolejeunea apiculata  
 Lejeunea cucullata - Metalejeunea cucullata  
 Lepidolaena hodgsoniae - Lepidogyna hodgsoniae  
 Lepidozia dispar - Kurzia hippuroides  
 Lepidozia leptodictyon - Pseudocephalozia  
 lepidozioides  
 Lepidozia lindbergii - Telaranea lindbergii  
 Lepidozia meridiana var. paludicola - Telaranea

- paludicola*  
*Lethocolea squamata* - *Lethocolea pansa*  
*Lophocolea amplexans* - *Clasmatocolea inflexispina*  
*Lophocolea austrigena* - *Chiloscyphus austrigenus*  
 subsp. *austrigenus*  
*Lophocolea biciliata* - *Heteroscyphus biciliatus*  
*Lophocolea bidentata* - *Chiloscyphus chlorophyllus*  
*Lophocolea bispinosa* - *Chiloscyphus bispinosus*  
*Lophocolea caniculata* - *Chiloscyphus semiteres* var.  
*caniculatus*  
*Lophocolea cheesemanii* - *Chiloscyphus cheesemanii*  
*Lophocolea dalliana* - *Chiloscyphus dallianus*  
*Lophocolea decurrens* - *Chiloscyphus herzogii*  
*Lophocolea echinella* - *Chiloscyphus echinellus*  
*Lophocolea fiordlandiae* - *Stolonivector*  
*fiordlandiae*  
*Lophocolea fissistipula* - *Heteroscyphus fissistipus*  
*Lophocolea fulva* - *Chiloscyphus fulvus*  
*Lophocolea granditexta* - *Lamellocolea granditexta*  
*Lophocolea gunniana* - *Chiloscyphus austrigenus*  
 subsp. *okaritanus*  
*Lophocolea helmsiana* - *Chiloscyphus helmsianus*  
*Lophocolea hodgsoniae* - *Chiloscyphus australis*  
*Lophocolea inflexifolia* - *Chiloscyphus inflexifolius*  
*Lophocolea innovata* - *Leptoscyphus innovatus*  
*Lophocolea insularis* - *Chiloscyphus insularis*  
*Lophocolea lenta* - *Chiloscyphus lentus*  
*Lophocolea leucophylla* - *Chiloscyphus*  
*leucophyllus*  
*Lophocolea grandistipulus* - *Chiloscyphus novae-*  
*zeelandiae* var. *grandistipulus*  
*Lophocolea meridionalis* - *Chiloscyphus novae-*  
*zeelandiae* var. *meridionalis*  
*Lophocolea minor* - *Chiloscyphus minor*  
*Lophocolea multipenna* - *Chiloscyphus multipennus*  
*Lophocolea muricata* - *Chiloscyphus muricatus*  
*Lophocolea novae-zeelandiae* - *Chiloscyphus*  
*novae-zeelandiae* var. *novae-zeelandiae*  
*Lophocolea okaritana* - *Chiloscyphus austrigenus*  
 subsp. *okaritanus*  
*Lophocolea pallida* - *Chiloscyphus pallidus*  
*Lophocolea perpusilla* - *Chiloscyphus perpusillus*  
*Lophocolea planiuscula* - *Heteroscyphus*  
*planiusculus*  
*Lophocolea semiteres* - *Chiloscyphus semiteres* var.  
*semiteres*  
*Lophocolea spinifera* - *Chiloscyphus spiniferus*  
*Lophocolea subporosa* - *Chiloscyphus subporosa*  
*Lophocolea variabilis* - *Chiloscyphus variabilis*  
*Lophocolea villosa* - *Chiloscyphus villosus*  
*Marchantia hirsuta* - *Dumortiera hirsuta*  
*Marchantia pallida* - *Marchantia pileata*  
*Marsupella ustulata* - *Marsupella sprucei*  
*Marsupidium abbreviatum* - *Marsupidium*  
*surculosum*  
*Mastigobryum nitens* - *Bazzania adnexa* var. *adnexa*  
*Mastigophora flagellifera* - *Dendromastigophora*  
*flagellifera*  
*Megaceros arachnoideus* - *Megaceros pellucidus*  
  
*Megaceros flagellaris* - *Megaceros pellucidus*  
*Megaceros grandis* - *Megaceros pellucidus*  
*Megaceros longispirus* - *Megaceros pellucidus*  
*Megaceros membranaceus* - *Megaceros pellucidus*  
*Megaceros zotovii* - *Megaceros pellucidus*  
*Metzgeria colensoi* - *Metzgeria leptoneura*  
*Metzgeria hamata* - *Metzgeria leptoneura*  
*Micrisophylla leptodictyon* - *Pseudocephalozia*  
*lepidozioides*  
*Microlejeunea cucullata* - *Metalejeunea cucullata*  
*Neesioscyphus phoenichorizus* - *Austrosyphus*  
*phoenichorizus*  
*Neohattoria australis* - *Frullania rostrata*  
*Neohattoria rostrata* - *Frullania subrostrata*  
*Noteroclada perpusilla* - *Fossombronina pusilla*  
*Phaeoceros laevis* subsp. *carolinianus* - *Phaeoceros*  
*carolinianus*  
*Plagiochasma australe* - *Plagiochasma rupestre*  
*Plagiochasma hodgsoniae* - *Plagiochasma australe*  
*Plagiochila suborbiculata* - *Plagiochila gigantea*  
*Podanthe squamata* - *Lethocolea pansa*  
*Protomarsupella scottii* - *Allisoniella scottii*  
*Pseudocephalozia drucei* - *Paracromastigum drucei*  
*Pseudocephalozia leptodictyon* - *Pseudocephalozia*  
*lepidozioides*  
*Pseudocephalozia macrostipa* - *Paracromastigum*  
*macrostipum*  
*Pseudomarsupidium piliferum* - *Adelanthus bisetulus*  
*Ptychocoleus mollis* - *Acrolejeunea mollis*  
*Pycnolejeunea glauca* - *Cheilolejeunea intertexta*  
*Riccardia bistrata* - *Riccardia bipinnatifida*



*Riccardia effusa* - *Riccardia aequitexta*  
*Riccardia filicina* - *Aneura micropinna*  
*Riccardia muscoides* - *Riccardia marginata*  
*Riccardia perpusilla* - *Riccardia lobulata*  
*Riccia vesiculosa* - *Riccia sorocarpa*  
*Schistochila altissima* - *Pachyschistochila altissima*  
 subsp. *altissima*  
*Schistochila colensoana* - *Pachyschistochila*  
*colensoana*  
*Schistochila conchophylla* - *Paraschistochila*  
*conchophylla*  
*Schistochila papillifera* - *Pachyschistochila papillifera*  
*Schistochila parvistipula* - *Pachyschistochila*  
*parvistipula*  
*Schistochila pinnatifolia* - *Paraschistochila*  
*pinnatifolia*  
*Schistochila pseudokirkiana* - *Pachyschistochila*  
*colensoana*  
*Schistochila ruahinensis* - *Pachyschistochila*  
*papillifera*  
*Schistochila subhyalina* - *Pachyschistochila*  
*subhyalina* var. *subhyalina*  
*Schistochila trispiralis* - *Pachyschistochila trispiralis*  
*Schistochila tuloides* - *Paraschistochila tuloides*  
*Schistochila unguicularis* - *Schistochila balfouriana*  
*Schistochila virescens* - *Pachyschistochila virescens*  
*Schusterella australis* - *Frullania rostrata*  
*Siphonolejeunea nudipes* var. *magnicarinata* -  
*Austrolejeunea olgae*  
*Solenostoma rufiflora* - *Jungermannia inundata*  
*Steereomitrium minutum* - *Haplomitrium hookeri* var.  
*minutum*  
*Stolonophora perssonii* - *Hepatostolonophora rotata*  
 var. *perssonii*  
*Symphyogyna podophylla* - *Symphyogyna*  
*hymenophyllum*  
*Symphyogyna prolifera* - *Symphyogyna tenuinervis*  
*Taxilejeunea gracilipes* - *Lejeunea gracilipes*  
*Telaranea dispar* - *Kurzia hippuroides*  
*Tetracymbaliella cymbalifera* - *Heteroscyphus*  
*cymbaliferus*  
*Tetracymbaliella decipiens* - *Heteroscyphus*  
*decipiens*

*Thysananthus anguiformis* - *Mastigolejeunea*  
*anguiformis*  
*Triandrophyllum trifidum* - *Triandrophyllum*  
*subtrifidum* var. *trifidum*  
*Trichocolea lanata* - *Leiomitra lanata*  
*Tylimanthus epiphytus* - *Marsupidium epiphytum*  
*Tylimanthus knightii* - *Marsupidium knightii*  
*Tylimanthus perpusillus* - *Marsupidium perpusillum*  
*Tylimanthus setulosus* - *Marsupidium setulosum*  
*Tylimanthus spinosus* - *Marsupidium knightii*  
*Tylimanthus surculosus* - *Marsupidium surculosum*

## Acknowledgements

I wish to thank Marie Hicks for sending me her own checklist which was invaluable in checking mine and for other helpful information. I also wish to thank Jessica Beever, John Braggins, Elizabeth Brown, Ella Campbell, Paddy Dalton, John Engel, Riclef Grolle, Rudi Schuster, Markus Setzepfand and Rod Seppelt for corrections and helpful comments. Any errors that remain are, of course, mine.

## References

- Allison, K.W. & Child, J. 1975. *The liverworts of New Zealand*. Otago University Press.
- Bartholemew-Began, S. E. 1991. A morphogenetic re-evaluation of *Haplomitrium* Nees (Hepatophyta). *Bryophytorum Bibliotheca* 41: 1-297.
- Berggren, S. 1898. On New Zealand Hepaticae: 3. Lund.
- Bischler, H. 1979. *Plagiochasma* Lehm. & Lindenb. III. Les taxa d'Asie et d'Océanie. *Journal of the Hattori Botanical Laboratory* 45: 25-79.
- Bischler-Causse, H. 1989. *Marchantia* L. The Asiatic and Oceanic taxa. *Bryophytorum bibliotheca* 38.
- Bischler-Causse, H.; Glenny, D. & Boisselier-Dubayle, M. C. 1995. On *Neobodgsonia* H.Perss. (Marchantiales, Hepaticae). *Cryptogamie, Bryologie, Lichenologie* 16: 235-245.
- Boesen, D.F. 1982. The taxonomy of *Drucella* Hodgs. and *Drucelleae*, trib. nov. and their position within Lepidozioideae Limpr. *Lindbergia* 8: 77-88.
- Braggins, J. 1998. *Cololejeunea cardiocarpa* (Lejeuneaceae) a new record of a tropical species of liverwort in New Zealand. *New Zealand Journal of Botany* 35: (in press).
- Brown, E.A. & Braggins, J.E. 1989. A revision of the genus *Riccardia* S.F.Gray in New Zealand with notes on the genus *Aneuria* Dum. *Journal of the Hattori Botanical Laboratory* 66: 1-132.
- Brummit, R.K. & Powell, C.E. (eds) 1992. *Authors of Plant Names*. Royal Botanic Gardens, Kew.
- Campbell, E.O. 1966a. *Lunularia* in New Zealand. *Tuatara* 13: 31-42.
- Campbell, E.O. 1966b. The liverwort genus *Asterella* (Marchantiales) in New Zealand. *Transactions of the Royal Society of New Zealand, Botany*, 3: 99-110.
- Campbell, E.O. 1975. Notes on the liverwort family Ricciaceae in New Zealand. *Tuatara* 21: 121-129.
- Campbell, E.O. 1977a. Further notes on the liverwort family Ricciaceae in New Zealand. *Tuatara* 22: 222-232.
- Campbell, E.O. 1977b. Hepaticopsida (Hepaticae) and Anthocerotopsida. Appendix in Sykes, W.R. 1977 Kermadec Islands Flora, an annotated checklist. DSIR bulletin 219.
- Campbell, E.O. 1981. Notes on some Anthocerotae of New Zealand. *Tuatara* 25: 7-13.
- Campbell, E.O. 1982a. Notes on some Anthocerotae of New Zealand (2). *Tuatara* 25: 65-70.
- Campbell, E.O. 1982b. Notes on some Anthocerotae of New Zealand (3). *Tuatara* 26: 20-26.
- Campbell, E.O. 1982c. Some Anthocerotae of New Zealand with particular reference to their geographical distribution. *Journal of the Hattori Botanical Laboratory* 52: 37-44.
- Campbell, E.O. 1984. Notes on some Anthocerotae of New Zealand (4). *Tuatara* 27: 105-120.
- Campbell, E.O. 1986. Notes on some Anthocerotae of New Zealand (5). *Tuatara* 28: 83-94.
- Campbell, E.O. 1987. *Steereomitrium minutum* gen. et sp. nov. (Calobryales). *Memoirs of the New York Botanical Garden* 45: 569-574.
- Campbell, E.O. 1988. *Fossombronia* species in New Zealand. *Tuatara* 30: 12-22.
- Campbell, E.O. 1993. Some name changes in New Zealand Hepaticae and Anthocerotae. *New Zealand Journal of Botany* 31: 341-346.
- Campbell, E.O. 1995a. Name changes in Australasian *Megaceros* (Anthocerotae). *New Zealand Journal of Botany* 33: 279-283.
- Campbell, E.O. 1995b. *Phaeoceros delicatus* a new species of Anthocerotae from New Zealand. *New Zealand Journal of Botany* 33: 285-290.
- Campbell, E.O. 1997. Some additions and alterations to the liverwort and hornwort flora of the Kermadec Islands. *New Zealand Botanical Society Newsletter* 49: 8-10.
- Campbell, E.O. & Hasegawa, J. 1993a. *Phaeoceros hirticalyx* (Steph.) Haseg. (Anthocerotae) new to New Zealand. *New Zealand Journal of Botany* 31: 127-131.
- Campbell, E.O.; Hopcroft, D.H. & Markham, K.R. 1993. A study of *Symphogyna hymenophyllum* (Hook.) Mont. et Nees and *S. podophylla* (Thunb.) Mont. et Nees (Hepaticae) using scanning electron microscopy of spores and comparative chemistry. *New Zealand Journal of Botany* 31: 347-351.
- Campbell, E.O.; Markham, K.R. & Porter, L.J. 1975. Dendroid liverworts of the order Metzgeriales in New Zealand. *New Zealand Journal of Botany* 13: 593-600.
- Dumont D'Urville, J.S.C. 1845. *Voyage au Pole Sud et dan l'Océanie sur les corvettes l'Astrolabe et la Zélée*. Paris.
- Engel, J.J. 1968. A taxonomic monograph of the genus *Balantiopsis* (Hepaticae). *Nova Hedwigia* 16: 83-130.
- Engel, J.J. 1976. *Metzgeria hamata* Lindb., an illegitimate name of Hepaticae. *Lindbergia* 3: 219-220.
- Engel, J.J. 1978. A taxonomic and phytogeographical study of Brunswick Peninsula (Strait of Magellan) Hepaticae and Anthocerotae. *Fieldiana, Botany* 41.
- Engel, J.J. 1979. Austral hepaticae X. A revision of *Hepatostolonophora* Engel & Schust. nom nov. (Hepaticae). *Journal of the Hattori Botanical Laboratory* 46: 91-108.
- Engel, J.J. 1980. A monograph of *Clasmatocolea* (Hepaticae). *Fieldiana, Botany* 3: 1-229.
- Engel, J.J. 1985. *Psilodada major* (Schust.) Engel comb. nov. (Hepaticae) from New Zealand. *Phytologia* 58: 324.

- Engel, J.J. 1990a. Studies on Geocalycaceae (Hepaticae) I. The taxonomic position of *Chiloscyphus amplectens* (Mitt.) Engel & Schust. together with refinements in *Heteroscyphus* Schiffn. *Journal of the Hattori Botanical Laboratory* 68: 303-315.
- Engel, J.J. 1990b. Falkland Islands (Islas Malvinas) Hepaticae and Anthocerophyta: a taxonomic and phytogeographic study. *Fieldiana, Botany* 25: 1-209.
- Engel, J.J. 1991a. Studies on Geocalycaceae (Hepaticae) II. *Stolonivector*, a new genus from New Zealand. *Journal of the Hattori Botanical Laboratory* 69: 79-86.
- Engel, J.J. 1991b. Studies on Geocalycaceae (Hepaticae) III. On the typification of *Jungermannia multipenna* Hook.f. & Tayl. *The Bryologist* 94: 22-24.
- Engel, J.J. 1991c. Studies on Geocalycaceae (Hepaticae) IV. *Lamellocolea*, a new genus of Leptoscyphoideae from New Zealand. *Journal of the Hattori Botanical Laboratory* 70: 63-78.
- Engel, J.J. 1991d. Studies on Geocalycaceae (Hepaticae) V. Comments on the Leucophyllae complex of *Chiloscyphus*. *The Bryologist* 94: 311-314.
- Engel, J.J. 1991e. Studies on Geocalycaceae (Hepaticae) VI. Comments on *Leptoscyphus* in Australasia, together with refinements in *Clasmatocolea*. *The Bryologist* 94: 435-437.
- Engel, J.J. 1991f. Studies on Tasmanian Hepaticae I. The genus *Adelanthus*. In: M.R. Banks, S.J. Smith, A.E. Orchard & G. Kantvilas (eds) *Aspects of Tasmanian Botany*, Royal Society of Tasmania, Hobart, 7-11.
- Engel, J.J. 1992. Studies on Geocalycaceae VII. Subspecific differentiation of *Chiloscyphus semiteres* together with further refinements in *Chiloscyphus* (s.lat.). In W.R. Buck (ed.) *Festschrift in Honor of Howard A. Crum in Celebration of his 70th birthday. Contributions from the University of Michigan Herbarium* 18: 107-111.
- Engel, J.J. 1993. Studies on Geocalycaceae IX. *Chiloscyphus hattorii* Engel, a new species from New Zealand, together with nomenclatural refinements in Australasian *Heteroscyphus* and *Leptoscyphus*. *Journal of the Hattori Botanical Laboratory* 74: 29-33.
- Engel, J.J. & Merrill, G.L.S. 1994. Studies of New Zealand Hepaticae 8-13. *Bazzania* and *Acromastigum*. *The Bryologist* 97: 313-320.
- Engel, J.J. & Merrill, G.L.S. 1995. Austral Hepaticae 23. New taxa and new combinations in *Telaranea* Spruce ex Schiffn. (Lepidoziaceae). *Phytologia* 79: 250-253.
- Engel, J.J. & Merrill, G.L.S. 1996. Studies of New Zealand Hepaticae 14-19. *Journal of the Hattori Botanical Laboratory* 80: 217-231.
- Engel, J.J. & Merrill, G.L.S. 1997. Austral Hepaticae. 22. The genus *Balantiopsis* in New Zealand, with observations on extraterritorial taxa and a phylogeny of *Balantiopsis* and the family Balantiopsaceae (Jungermanniales). *Fieldiana, Botany* 37: 1-62.
- Engel, J.J. & Schuster, R.M. 1983. Austral Hepaticae XVIII Studies towards a revision of *Telaranea* subg. *Neolepidozia* (Lepidoziaceae). *Fieldiana, Botany* 14: 1-7.
- Engel, J.J. & Schuster, R.M. 1984. An overview and evaluation of the genera of Geocalycaceae subfamily Lophocoleoideae (Hepaticae). *Nova Hedwigia* 39: 385-445 and figs. 1-10.
- Engel, J.J. & Schuster, R.M. 1988. Studies of New Zealand Hepaticae 1-6. *Brittonia* 40: 200-207.
- Engel, J.J. & Schuster, R.M. 1994. Studies of New Zealand Hepaticae 7. The status of *Steeeromitrium*. *The Bryologist* 97: 63-66.
- Garnock-Jones, P.J. 1987. Orthographic Changes for Names of New Zealand Vascular Plants. In: Connor, H.E. & Edgar, E. Name changes in the indigenous New Zealand Flora 1960-1986 and Nomina Nova IV 1983-1986. *New Zealand Journal of Botany* 25: 115-170.
- Glenny, D. 1995. *Seppeltia succuba* Grolle, a liverwort genus new to New Zealand. *New Zealand Journal of Botany* 33: 141-142.
- Glenny, D. 1996a. *Cephaloziella pulcherrima* subsp. *sphagnicola* R.M.Schust., a liverwort subspecies new to New Zealand. *Australian Bryological Newsletter* 33: 7-8.
- Glenny, D. 1996b. *Nephelolejeunea papillosa*, a new liverwort species from New Zealand, with notes on the distribution of *Kymatolejeunea bartlettii* Grolle. *New Zealand Journal of Botany* 34: 195-198.
- Glenny, D.; Braggins J. & Schuster R.M. 1997. *Zoopsis nitida* (Hepaticae: Lepidoziaceae), a new species from New Zealand. *Journal of Bryology* 19: 777-782.
- Gradstein S.R. 1975 A taxonomic monograph of the genus *Acrolejeunea* (Hepaticae). Cramer.
- Greuter, W.; Barrie, F.R.; Burdet, H.M.; Chaloner, W.G.; Demoulin, V.; Hawksworth, D.L.; Jørgensen, P.M.; Nicolson, D.H.; Silva, P.C.; Trehane, P. & McNeill, J. 1994. International code of botanical nomenclature (Tokyo code). *Regnum vegetabile* 121.
- Grolle, R. 1961 Über *Saccogyne* Dum. und *Saccogynidium*, eine neue Lebermoosgattung. *Journal of the Hattori Botanical Laboratory* 23: 41-67 ("1960").
- Grolle, R. 1964. Über neue bemerkenswerte *Acromastigum*-Arten. *Österreichische Botanische Zeitschrift* 111: 240-236.

- Grolle, R. 1965a. Die Lebermoosgattungen *Blepharidophyllum* Angstr. und *Krumodiplophyllum* nov. gen. (Scapaniaceae). *Journal of the Hattori Botanical Laboratory* 28: 55-74.
- Grolle, R. 1965b. *Wettsteinia* Schiffn. *Journal of the Hattori Botanical Laboratory* 28: 94-100.
- Grolle, R. 1966. *Herzogobryum* - eine beblätterte Lebermoosgattung mit dorsal verzahnten Merophyten. *Österreichische Botanische Zeitschrift* 113: 220-234.
- Grolle, R. 1967. Monographie der Lepidolaenaceae. *Journal of the Hattori Botanical Laboratory* 30: 1-53.
- Grolle, R. 1971. *Jamesoniella* und Verwandte. *Feddes Repertorium* 82: 1-100.
- Grolle, R. 1972. Zur Kenntnis von *Adelanthus* Mitt. *Journal of the Hattori Botanical Laboratory* 35: 323-370.
- Grolle, R. 1973. *Nephelolejeunea* - eine neue Gattung. *Journal of the Hattori Botanical Laboratory* 37: 251-261.
- Grolle, R. 1975a. Ein neues *Herzogobryum* aus Tasmanien und N.S.Wales: *H. filarium* sp. nov. *Feddes Repertorium* 86: 71-74.
- Grolle, R. 1975b. *Diplasiolejeunea* in Australasien. *Feddes Repertorium* 86: 75-82.
- Grolle, R. 1980a. Über *Harpalejeunea* in Australasien. *Journal of the Hattori Botanical Laboratory* 47: 237-244.
- Grolle, R. 1980b. *Nephelolejeunea* in Australasien. *Journal of the Hattori Botanical Laboratory* 48: 161-170.
- Grolle, R. 1982. Übersicht der Lejeuneaceae in Tasmanien. *Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen Mathematisch-naturwissenschaftliche Reihe* 31: 207-227.
- Grolle, R. 1983a. Nomina generica Hepaticarum; references, types and synonymies. *Acta botanica Fennica* 121: 1-62.
- Grolle, R. 1983b. Hepatics of Europe including the Azores: an annotated list of species, with synonyms for the recent literature. *Journal of Bryology* 12: 403-459.
- Grolle, R. 1984. *Kymatolejeunea* Grolle - eine neue Gattung der Lejeuneoideae aus Neuseeland. *Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen Mathematisch-naturwissenschaftliche Reihe* 32: 1005-1012.
- Grolle, R. 1986. Miscellanea hepaticologica 241-250. *Journal of the Hattori Botanical Laboratory* 61: 249-255.
- Grolle, R. 1989. *Marsupidium* in Guyana. *Journal of the Hattori Botanical Laboratory* 66: 337-342.
- Grolle, R. 1992. *Austrolejeunea jarmaniana* eine neue Lebermoosart aus Tasmanien. *Nova Hedwigia* 55: 111-117.
- Grolle, R. 1995. The Hepaticae and Anthocerotae of the East African Islands. *Bryophytorum bibliotheca* 48: 1-178.
- Grolle, R. & Seppelt, R.D. 1986. *Seppeltia*, a new leafy genus of Metzgeriales from Macquarie Island. *Journal of the Hattori Botanical Laboratory* 60: 275-282.
- Hamlin, B.G. 1972. Hepaticae of New Zealand, Parts I and II. Index of binomials and preliminary checklist. *Records of the Dominion Museum* 7: 243-366.
- Hamlin, B.G. 1973. Hepaticae of New Zealand, Part III. Additions and corrections to the Index of Binomials. *Records of the Dominion Museum* 8: 139-152.
- Hamlin, B.G. 1975. Hepaticae of New Zealand, Part IV. Further additions and corrections to the Index of Binomials. *Records of the National Museum of New Zealand* 1: 87-89.
- Hasegawa, J. 1988. A proposal for a new system of the Anthocerotae, with a revision of the genera. *Journal of the Hattori Botanical Laboratory* 64: 87-95.
- Hässel de Menendez, G.G. 1957. *Monoclea forsteri* en Argentina. *Boletín de la Sociedad Argentina de Botánica* 6: 248-250.
- Hässel de Menendez, G.G. & Solari, S.S. 1972. Sinopsis de las especies Andinopatagónicas del género *Tylimanthus* (Hepaticae). *Darwiniana* 17: 568-591.
- Hässel de Menendez, G.G. 1986. *Leioscyphus repens* Mitt.: a lost taxon from New Zealand? *Bryological Times* 40: 3-4.
- Hässel de Menendez, G.G. 1995a. Little known *Chiloscyphus* species from southern South America (Hepatophyta). *Nova Hedwigia* 61: 397-415.
- Hässel de Menendez, G.G. 1995b. Little known *Chiloscyphus* (Hepatophyta) species from southern South America 2. *Journal of the Hattori Botanical Laboratory* 78: 63-81.
- Hässel de Menendez, G.G. 1996. Reduction of *Clasmatoclea* Spruce and *Xenocephalozia* Schust. to the synonymy of *Chiloscyphus* Corda. *Nova Hedwigia* 63: 493-516.
- Hatcher, R. 1958. The genus *Trichoclea* in New Zealand. *Transactions and Proceedings of the Royal Society of New Zealand* 85: 237-46.
- Hatcher, R. 1961. A monograph of the genus *Isotachis* (Hepaticae). *Nova Hedwigia* 2: 1-71.
- Hattori, S. 1979a. A revision of the Australasian species of the genus *Frullania*, Hepaticae, I. *Journal of the Hattori Botanical Laboratory* 45: 323-363.
- Hattori, S. 1979b. A revision of the Australasian species of the genus *Frullania*, Hepaticae, II. *Journal of the Hattori Botanical Laboratory* 46: 119-153.

- Hattori, S. 1983. A revision of the Australasian species of the genus *Frullania*, Hepaticae, III. *Journal of the Hattori Botanical Laboratory* 54: 133-182.
- Hattori, S. 1986. New Zealand *Porella* species. *Bulletin of the National Science Museum, series B (Botany)* 12: 31-36.
- Herzog, T. 1949. Descriptions of new species of New Zealand hepatics III. *Transactions of the Royal Society of New Zealand* 77: 153-156.
- Herzog, T. & Grolle, R. 1958. Was ist *Pachyglossa*? *Revue Bryologique et Lichénologique* 27: 147-165.
- Hodgson, E.A. 1943. A review of the New Zealand species of the genus *Chiloscyphus*. *Transactions of the Royal Society of New Zealand* 73: 27-52.
- Hodgson, E.A. 1944. New Zealand Hepaticae (Liverworts). IV. A review of the New Zealand species of the genus *Radula*. *Transactions of the Royal Society of New Zealand* 74: 273-287.
- Hodgson, E.A. 1949. New Zealand Hepaticae (Liverworts). VI. A review of the New Zealand species of the genus *Frullania*. *Transactions of the Royal Society of New Zealand* 77: 361-389.
- Hodgson, E.A. 1953. New Zealand Hepaticae (Liverworts). VII. A review of the New Zealand species of the genus *Lophocolea* with notes on *Chiloscyphus*. *Transactions of the Royal Society of New Zealand* 80: 75-77.
- Hodgson, E.A. 1954. New Zealand Hepaticae (Liverworts). VIII. A review of the New Zealand species of the genera *Bazzania* and *Acromastigum*. *Transactions of the Royal Society of New Zealand* 82: 7-24.
- Hodgson, E.A. 1955. New Zealand Hepaticae (Liverworts). IX. A review of the New Zealand species of the genus *Lepidozia*. *Transactions of the Royal Society of New Zealand* 83: 589-620.
- Hodgson, E.A. 1967a. New Zealand Hepaticae (Liverworts). XVI. A miscellany of new genera, new species and notes, Part I. *Transactions of the Royal Society of New Zealand, Botany* 3: 67-97.
- Hodgson, E.A. 1967b. New Zealand Hepaticae (Liverworts). XVII. A miscellany of taxonomic notes. Part 2. *Transactions of the Royal Society of New Zealand, Botany* 3: 175-198.
- Hodgson, E.A. 1967c. New Zealand Hepaticae (Liverworts). XVIII. A revision of the New Zealand species of the genera miscellany of taxonomic notes. Part 2. *Transactions of the Royal Society of New Zealand, Botany* 3: 221-230.
- Hooker, J.D. 1847. Flora Novae-Zelandiae II Flowerless plants. In: The Botany of the Antarctic Voyage of H.M. Discovery Ships Erebus and Terror in the years 1839-1843. Reeve, London.
- Inoue, H. 1976. Illustrations of Japanese Hepaticae, volume 2. Tsukiji Shokan Publishing, Tokyo.
- Inoue, H. & Schuster, R.M. 1971. A monograph of the New Zealand and Tasmanian Plagiochilaceae. *Journal of the Hattori Botanical Laboratory* 34: 1-225.
- Jovet-Ast, S. 1980. La section *Oidocorys* S.J.-A. du genre *Colura* Dum. Est-elle âgée de plus de 100 millions d'années? *Cryptogramie, bryologie, lichenologie* 1: 277-287.
- Kitagawa, N. & Grolle, R. 1985. A new name for *Acrosyphus* N. Kitag., Hepaticae. *Acta phytotaxa et Geobotanica* 36: 58.
- Kuwahara, Y. 1966. The family Metzgeriaceae in North and South East Asia, Pacific Oceania, Australia and New Zealand. *Revue bryologique et lichenologique* 34: 191-239.
- Kuwahara, Y. 1980. Four new species of the Metzgeriaceae (Hepaticae) from the subantarctic region, with an enumeration of previously reported taxa of the family. *Hikobia* 8: 274-296.
- Kuwahara, Y. 1984. Synopsis of sect. *Biseria* Kuw., subgen. *Metzgeria* Kuw., gen. *Metzgeria* Raddi (Hepaticae). *Hikobia* 9: 31-42.
- Kuwahara, Y. 1987. Two new species of *Metzgeria* from New Zealand, with a key to the New Zealand species of the family Metzgeriaceae. *Memoirs of the New York Botanical Garden* 45: 561-568.
- Perold, S.M. 1991. Studies in the genus *Riccia* (Marchantiales) from southern Africa. 23. *R. bullosa*: typification and a full description. *Bothalia* 21: 129-135.
- Ratkowsky, D.A. 1980. Tasmanian and New Zealand *Trichocolea* (Hepaticae). *The Bryologist* 83: 78-82.
- Ratkowsky, D.A. 1987. Checklist of the Tasmanian liverworts. *Papers and Proceedings of the Royal Society of Tasmania* 121: 153-158.
- Sayre, G. 1983. A Thomas Taylor bibliography. *Journal of Bryology* 12: 461-470.
- Schuster, R.M. 1963. Studies on Antipodal Hepaticae I. Annotated keys to the genera of Antipodal Hepaticae with special reference to New Zealand and Tasmania. *Journal of the Hattori Botanical Laboratory* 26: 185-309.
- Schuster, R.M. 1964b. Studies on Hepaticae XVII *Trichotemnoma* Schust. Gen. N. *Journal of the Hattori Botanical Laboratory* 27: 149-158.
- Schuster, R.M. 1964c. Studies on Antipodal Hepaticae, IV. Metzgeriales. *Journal of the Hattori Botanical Laboratory* 27: 183-216.
- Schuster, R.M. 1966a. Studies in Lophoziaecae. 1. The genera *Anastrophyllum* and *Sphenolobus* and their segregates. 2. *Cephalolobus* gen. n., *Acrolophozia* gen. n. and *Protomarsupella* gen. n. *Revue bryologique et lichenologique* 34: 240-287.

- Schuster, R.M. 1966b. A memoir on the family Blepharostomataceae, I. *Candollea* 21: 59-136.
- Schuster, R.M. 1966c. A memoir on the family Blepharostomataceae, II. *Candollea* 21: 241-355.
- Schuster, R.M. 1968a. Studies on Hepaticae XXIX-XLIV. A miscellany of new taxa and new range extensions. *Nova Hedwigia* 15: 437-529.
- Schuster, R.M. 1968b. Studies on Antipodal hepaticae X. Subantarctic Scapaniaceae, Balantiopsidaceae and Schistochilaceae. *Bulletin of the National Science Museum, Tokyo* 11: 13-31.
- Schuster, R.M. 1969. The Hepaticae and Anthocerotae of North America, volume II. Columbia University Press.
- Schuster, R.M. 1970. Studies on Antipodal hepaticae, III. *Jubulopsis* Schuster, *Neobattoria* Kamimura and *Amphijubula* Schuster. *Journal of the Hattori Botanical Laboratory* 33: 266-304.
- Schuster, R.M. 1971a. Two new Antipodal species of *Haplomitrium* (Calobryales). *The Bryologist* 74: 131-143.
- Schuster, R.M. 1971b. Phylogenetic and Taxonomic studies on Jungermanniidae. *Journal of the Hattori Botanical Laboratory* 36: 321-405.
- Schuster, R.M. 1974a. Studies on Antipodal Hepaticae XI. The Chaetophylloids: their taxonomy, phylogeny and phytogeographic affinities. *Bulletin of the National Science Museum, Tokyo* 17: 163-180.
- Schuster, R.M. 1974b. The Hepaticae and Anthocerotae of North America, volume III. Columbia University Press.
- Schuster, R.M. 1980a. Studies on Hepaticae LIV-LVIII. *Kurzia* v. Mart. [*Microlepidozia* (Spr.) Joerg.], *Megalembidium* Schust., *Psiloclada* Mitt., *Drucella* Hodgs., and *Isolembidium* Schust. *Journal of the Hattori Botanical Laboratory* 48: 337-421.
- Schuster, R.M. 1980b. The Hepaticae and Anthocerotae of North America, volume IV. Columbia University Press.
- Schuster, R.M. 1980c. New combinations and taxa of Hepaticae I. *Phytologia* 45: 415-437.
- Schuster, R.M. 1981. Austral Hepaticae VIII. *Tuyamaelloideae*. *Phytologia* 47: 301-308.
- Schuster, R.M. 1984. (ed.) New Manual of Bryology vol. 2, Hattori Botanical Laboratory, Japan.
- Schuster, R.M. 1985a. Austral Hepaticae, XIX. Some taxa new to New Zealand and New Caledonia. *Phytologia* 56: 449-464.
- Schuster, R.M. 1985b. Some new taxa of Hepaticae. *Phytologia* 57: 408-414.
- Schuster, R.M. 1987. Phylogenetic studies on Jungermanniidae, II. Mastigophoraceae and Chaetophylloids. *Memoirs of the New York Botanical Gardens* 45: 733-748.
- Schuster, R.M. 1992a. The Hepaticae and Anthocerotae of North America volume VI. Field Museum, Chicago.
- Schuster, R.M. 1992b. The oil-bodies of the Hepaticae. II. Lejeuneaceae (Part 2). *Journal of the Hattori Botanical Laboratory* 72: 163-359.
- Schuster, R.M. 1993. Studies on Hepaticae, LXII-LXIV. Lepidoziaceae subf. Zoopsidoideae (1). *Nova Hedwigia* 56: 35-59.
- Schuster, R.M. 1994. Studies on Metzgeriales. III. The classification of the Fossombroniaceae and on *Austrofossombronia* Schust. gen. n. *Hikobia* 11: 439-449.
- Schuster, R.M. 1995b. Studies on Cephaloziellaceae III. On *Cephalomitrium* Schust., gen. n. *Nova Hedwigia* 61: 547-559.
- Schuster, R.M. 1996a. Studies on Cephaloziellaceae IV. On New Zealand taxa. *Nova Hedwigia* 63: 1-61.
- Schuster, R.M. 1996b. On *Jubulopsis* Schust. (Jungermanniales: Jubulopsidaceae fam. nov.) and its relationships. *Journal of Bryology* 19: 297-310.
- Schuster, R.M. 1996c. Studies on antipodal Hepaticae XII. Gymnomitriaceae. *Journal of the Hattori Botanical Laboratory* 80: 1-147.
- Schuster, R.M. 1997. On *Bragginsella*, a new genus of Jungermanniales from New Zealand. *The Bryologist* 100(3):362-367
- Schuster, R.M. & Engel, J.J. 1974a. A monograph of the genus *Pseudocephalozia* (Hepaticae). *Journal of the Hattori Botanical Laboratory* 38: 665-701.
- Schuster, R.M. & Engel, J.J. 1974b. Austral Hepaticae V. Studies on Schistochilaceae. *Phytologia* 30: 241-250.
- Schuster, R.M. & Engel, J.J. 1981. Austral Hepaticae XIII. Two new genera of Geocalyceae (Lophocoleaceae). *Phytologia* 47: 309-312.
- Schuster, R.M. & Engel, J.J. 1982. Austral Hepaticae XVI. Gondwanalandic Leptoscyphoideae (Geocalyceae). *Lindbergia* 8: 65-74.
- Schuster, R.M. & Engel, J.J. 1985. Austral Hepaticae V(2). Temperate and subantarctic Schistochilaceae of Australasia. *Journal of the Hattori Botanical Laboratory* 58: 255-539.
- Schuster, R.M. & Engel, J.J. 1987. A monograph of Lepidoziaceae subfam. Lembidioideae (Hepaticae). *Journal of the Hattori Botanical Laboratory* 63: 247-350.
- Schuster, R.M. & Engel, J.J. 1996. Austral Hepaticae XXI. *Paracromastigum fiordlandiae* (sp. nov.) and the delimitation of *Paracromastigum* and *Hyalolepidozia* (Lepidoziaceae). *Brittonia* 48: 165-173.
- Schuster, R.M. & Scott, G.A.M. 1969. A study of the family Treubiaceae (Hepaticae: Metzgeriales). *Journal of the Hattori Botanical Laboratory* 32: 219-268.

- Scott, E.B. 1960. A monograph of the genus *Lepicolea*. *Nova Hedwigia* 2: 129-172.
- Scott, G.A.M. 1969. The New Zealand species of *Zoopsis* (Hepaticae). *Records of the Dominion Museum* 6: 159-174.
- Scott, G.A.M. 1985. Southern Australian Liverworts. Australian Flora and Fauna Series number 2. Bureau of Flora and Fauna, Canberra.
- Scott, G.A.M. & Beckmann, K. 1987. The biology of *Lethocolea squamata*. *Symposia Biologica Hungarica* 35: 209-214.
- Scott, G.A.M. & Bradshaw, J.A. 1986. Australian liverworts (Hepaticae): annotated list of binomials and check-list of published species with bibliography. *Brunonia* 8: 1-171.
- Scott, G.A.M. & Pike, D.C. 1988. *Targionia* in Australasia. *Beibefz zur Nova Hedwigia* 90: 159-162.
- Seppelt, R.D. 1990. Bryophytes recorded from Macquarie Island. Appendix 2 in: Selkirk, P.M.; Seppelt, R.D. & Selkirk D.R. 1990. Studies in Polar Research: Subantarctic Macquarie Island - Environment and Biology. Cambridge, Cambridge University Press.
- Solari, S. S. 1973. Miscelanea Briologica (Hepaticae) I. *Boletin de la Sociedad Argentina de Botanica* 15: 197-203.
- Thiers, B.M. & Gradstein, S.R. 1989. Lejeuneaceae (Hepaticae) of Australia. I. Subfamily Ptychanthoideae. *Memoirs of the New York Botanical Garden* 52: 1-82.
- Vana, J. 1975. Studien über die Jungermannioideae (Hepaticae) 8. *Jungermannia* subg. *Plectocolea* und subg. *Solenostoma* in Australien, Neuseeland und Oceanien. *Folia Geobotanica et Phytotaxonomica, Praha* 10: 277-323.
- Vana, J. 1976. Lebermoose aus Neuguinea. 13. *Gymnomitriaceae*. *Journal of the Hattori Botanical Laboratory* 40: 185-189.