

## Early Land Plants Today: Index of Liverworts & Hornworts 2011–2012

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### Abstract

A widely accessible list of known plant species is a fundamental requirement for plant conservation and has vast applications. An index of published names of liverworts and hornworts between 2011 and 2012 is provided as part of a continued effort in working toward producing a world checklist of this group. The list includes 25 higher taxa, 154 species, 31 infraspecific taxa, and 17 autonyms for 2011 and 2012, 12 of them are fossils. A few taxa not covered by the earlier indices for 2000–2010 are also included. 75 species and 15 infraspecific taxa are new to science.

**Key words:** Liverworts, hornworts, index, nomenclature

### Introduction

Under the auspices of the Early Land Plants Today project, there has been a strong community-driven effort attempting to address the critical need to synthesize the vast nomenclatural, taxonomic and global distributional data for liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) (von Konrat *et al.* 2010a). These endeavours are critical in providing the foundation to develop a working checklist of liverworts and hornworts worldwide; the first version is projected to be published in 2014. This effort is fundamental toward the development of a working list of all known plant species under the auspices of the *Convention on Biological Diversity* (CBD) and the *Global Strategy for Plant Conservation* (GSPC). The significance of this target was underscored again by the Conference of the Parties to the Convention on Biological Diversity who have further developed the GSPC into its second phase (2011–2020), taking into account current and emerging environmental challenges on plant diversity (Blackmore *et al.* 2011). The critical need for this target to be achieved and the implications for conservation, taxonomy, and botanical science were recently outlined by Paton *et al.* (2008). Progress towards the Targets of the *Global Strategy of Plant Conservation* (GSPC) have recently been reviewed by Paton & Lughadha (2011).

This index follows on from the resourceful indices of recent years: Index of Hepatics (Crosby & Engel 2006), the series Index of Bryophytes 2001–2004 (Crosby & Magill 2005) and Index of Bryophytes 2005 (Crosby & Magill 2006), as well as the most recently published Index of Liverworts and Hornworts 2006–2008 and 2009–2010 (von Konrat *et al.* 2010b, Söderström *et al.* 2012d). In the current index we list citations for names published for liverworts and hornworts during the period January 1, 2011 through December 31, 2012. Valid, illegitimate and invalid names that were overlooked by earlier indices (2000–2010) are also included. A bibliography contains complete citations for the places of publication of the names, their basionyms and blocking names. The format generally follows that of previous indices, especially Söderström *et al.* (2012d). Unlike previous indices, basionyms published before 2009 do not have their own entries here. Instead they follow the names of taxa built on them. For fossils we state the geological period. The type taxon is also provided for new higher taxa. All names are arranged alphabetically. Although names that we judge to be invalidly published under the Melbourne Code of Nomenclature (McNeill *et al.* 2012) are included in the list, nomenclaturally they are not accepted by the authors of this index, and therefore not published under the Melbourne Code of Nomenclature (McNeill *et al.* 2012). As in previous indices, no disposition is provided to an accepted name or to the taxonomy.

The number of names validly published during 2011 and 2012 includes 25 higher taxa, 153 species, 31 infraspecific taxa, and 12 fossils. In addition, 17 autonyms were also created. 75 species and 15 infraspecific taxa are new to science.

## Format

Authorities and citation abbreviations follow the on-line version of Authors of Plant Names at the Royal Botanic Gardens, Kew, Website ([www.ipni.org](http://www.ipni.org)), which is an updated version of Brummitt & Powell (1992). For nomenclatural elements we follow the Melbourne Code of Nomenclature (McNeill *et al.* 2012).

The following outlines the format for the different categories of names published during the period. At the end of each name, referral to the full citation for the journal/book article in which the name appeared is in the form: (see Malombe *et al.* 2010). Entries may have an annotation in the form of a NOTE near the end. Common reasons for the note are superfluous combinations, blocking names, etc., and era for fossils.

The name of a *new taxon* published during the period takes the form:

***Cheilolejeunea ulugurica*** Malombe, Eb.Fisch. et Pócs, *Acta Biol. Pl. Agr.* 1: 24, 2010 [2011] (see Malombe *et al.* 2010). TYPE: “Typus : TANZANIA, Uluguru Mts, N side of Bondwa peak, 1650–1880 m, 26 Dec. 1985, B. & T. Pócs, 8565/S, (Holotype: EGR, microslide!)”.

Its article from the Bibliography:

Malombe, I., Fischer, E. & Pócs, T. (2010 [2011]) *Cheilolejeunea ulugurica* (Lejeuneaceae, Marchantiophyta), a new species from Tanzania. *Acta Biologica Plantarum Agriensis* 1: 23–28.

A *new combination* published during the period takes the form:

***Acromastigum furcatifolium*** (Steph.) E.A.Br., *Phytotaxa* 65: 58, 2012 (see Brown *et al.* 2012). BASIONYM: *Lepidozia furcatifolia* Steph., *J. & Proc. Roy. Soc. New South Wales* 48 (1/2): 112, 1914 (see Stephani & Watts 1914).

Its articles from the Bibliography:

Brown, E.A., Söderström, L., Hagborg, A., von Konrat, M.J. (2012) Notes on Early Land Plants Today. 10. A new combination in *Acromastigum*. *Phytotaxa* 65: 58–58.

Stephani, F. & Watts, W.W. (1914) Hepaticae australes. *Journal and Proceedings of the Royal Society of New South Wales* 48 (1/2): 94–135.

One or two asterisks preceding an entry indicate that the name has been interpreted by us as contrary to McNeill *et al.* (2012) being either illegitimate (a single asterisk) or invalid (two asterisks). We give both the article that we base our interpretation on, and a short statement about what we think is wrong. For example:

**\*\**Clevea hyalina* var. *rufescens*** (S.W.Arnell) Konstant., *Polish Bot. J.* 57 (1): 185, 2012, *nom. inval.* ICN Art. 41.1; basionym not valid (see Konstantinova & Savchenko 2012). BASIONYM: *Clevea hyalina* f. *rufescens* S.W.Arnell, *Ark. Bot., n.s.* 4 (6): 123, 1959, *nom. inval.* ICN Art. 40.2; based on more than one gathering (see Arnell & Mårtensson 1959).

A dagger, †, preceding an entry indicates a name for a fossil. For example,

†***Appiana*** Steenbock, Stockey, G.D.Beard et Tomescu, *Amer. J. Bot.* 98 (6): 999, 2011 (see Steenbock *et al.* 2011). TYPE: *Appiana sillettiana* Steenbock, Stockey, G.D.Beard et Tomescu.

## The index

***Acromastigum furcatifolium*** (Steph.) E.A.Br., *Phytotaxa* 65: 58, 2012 (see Brown *et al.* 2012). BASIONYM: *Lepidozia furcatifolia* Steph., *J. & Proc. Roy. Soc. New South Wales* 48 (1/2): 112, 1914 (see Stephani & Watts 1914).

***Acroscyphella* sect. *Tjiwidienses*** J.J.Engel, *Nova Hedwigia* 93 (3–4): 407, 2011 (see Engel 2011). TYPE: *Acroscyphella tjiwidiensis* (Sande Lac.) N.Kitag. et Grolle.

***Anastrophyllum aristatum*** (Herzog ex N.Kitag.) A.E.D.Daniels, D.G.Long, Kariyappa et P.Daniel, *J. Bryol.* 34: 148,

- 2012 (see Daniels *et al.* 2012). BASIONYM: *Anastrophyllum bidens* var. *aristatum* Herzog ex N.Kitag., *J. Hattori Bot. Lab.* 33: 216, 1970 (see Kitagawa 1970).
- Aneura crumii*** L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 43, 2012 (see Söderström *et al.* 2012a). NOM. NOV. PRO *Cryptothallus hirsutus* H.A.Crum, *Bryologist* 99 (4): 438, 1996 (see Crum & Bruce 1996). BLOCKING NAME: *Aneura hirsuta* Furuki, *J. Hattori Bot. Lab.* 70: 317, 1991 (see Furuki 1991).
- Aponardia*** (R.M.Schust.) Váňa, *Phytotaxa* 65: 46, 2012 (see Váňa *et al.* 2012d). BASIONYM: *Nardia* subgen. *Aponardia* R.M.Schust., *Beih. Nova Hedwigia* 119: 360, 2002 (see Schuster 2002).
- Aponardia huerlimannii*** (Váňa et Grolle) Váňa, *Phytotaxa* 65: 46, 2012 (see Váňa *et al.* 2012d). BASIONYM: *Nardia huerlimannii* Váňa et Grolle, *Österr. Bot. Z.* 118 (3): 233, 1970 (see Váňa 1970).
- †***Appiana*** Steenbock, Stockey, G.D.Beard et Tomescu, *Amer. J. Bot.* 98 (6): 999, 2011 (see Steenbock *et al.* 2011). TYPE: *Appiana sillettiana* Steenbock, Stockey, G.D.Beard et Tomescu.
- †***Appiana sillettiana*** Steenbock, Stockey, G.D.Beard et Tomescu, *Amer. J. Bot.* 98 (6): 999, 2011 (see Steenbock *et al.* 2011). TYPE: “Holotype hic designatus—AW660 Gtop #15. Locality—Appian Way, south of Campbell River, British Columbia, Canada (49° 54' 42" N, 125° 10' 40" W; UTM 10U CA 5531083N, 343646E). Stratigraphic position and age—Oyster Bay Formation, middle Eocene”.
- †**Appianaceae** Steenbock, Stockey, G.D.Beard et Tomescu (fam.), *Amer. J. Bot.* 98 (6): 999, 2011 (see Steenbock *et al.* 2011). TYPE: *Appiana* Steenbock, Stockey, G.Beard et Tomescu.
- Archilejeunea nebeliana*** Gradst. et Schäf.-Verw., *Cryptog. Bryol.* 33 (2): 108, 2012 (see Gradstein & Schäfer-Verwimp 2012). TYPE: “Ecuador, Zamora-Chinchipec: ca 5 km S of Zamora, Parque Nacional Podocarpus, entrance Río Bombuscara, sendero Mirador, 4°06,831'S, 78°58.017'W, on thin trunks in submontane rain forest, 1075 m alt., 25 January 2011, A. Schäfer-Verwimp & M. Nebel 31924, STU, isotype in JE, QCQ”.
- \*\****Aureolejeunea microscypha*** (Hook.f. et Taylor) M.Wigginton, *Moss. Liverw. St Helena*: 25, 2012, *nom. inval.* ICN Art. 41.5; basionym not cited (see Wigginton 2012b). BASIONYM: *Jungermannia microscypha* Hook.f. et Taylor, *London J. Bot.* 4: 90, 1845 (see Hooker & Taylor 1845).
- Bazzania amblyphylla*** Meagher, *Nova Hedwigia* 92 (3–4): 487, 2011 (see Meagher 2011). TYPE: “Australia – Queensland, Babinda Falls, W.B.Schofield 79821 & M.I.Schofield, 26 Jun 1983. HOLOTYPE: NSW-498536. ISOTYPE: MEL”.
- Bazzania dulongensis*** L.P.Zhou et Li Zhang, *J. Bryol.* 34 (1): 22, 2012 (see Zhou *et al.* 2012). TYPE: “China. Yunnan Prov., Dulongjiang, habitat and altitude unknown, 9 August 1982, M. Zang 2132, Holotype KUN”.
- Bazzania fuhreri*** Meagher, *Nova Hedwigia* 92 (3–4): 488, 2011 (see Meagher 2011). TYPE: “Australia – Queensland [=New South Wales], Tysons Track near Darkwood, E.A.Brown 89/113a, 28 April 1989. HOLOTYPE NSW-436405. ISOTYPE: MEL”.
- Bazzania gamscottii*** Meagher, *Nova Hedwigia* 92 (3–4): 492, 2011 (see Meagher 2011). TYPE: “Australia – Queensland, Little Cooper Creek, Thornton Peak, M.D.Godwin C4298, 11 Jun 1998. HOLOTYPE: BRI-717077. ISOTYPE: MEL”.
- Bazzania hainanensis*** L.P.Zhou et Li Zhang, *J. Bryol.* 34 (1): 25, 2012 (see Zhou *et al.* 2012). TYPE: “China. Hainan Prov., Diaoluo, Mengshui Forest Station, on rock along streamlet, 400 m, 27 November 1977, 1977 Collection Team 3314, Holotype IBSC”.
- Bazzania orbani*** Pócs, *Acta Biol. Pl. Agr.* 1: 16, 2010 [2011] (see Pócs 2010a). TYPE: “Typus: SW Madagascar, Toliara Province, Isalo National Park, “Piscine naturelle”, a deep pool of a brook in a sandstone gorge, shaded by *Pandanus pulcher* trees, at 800 m alt., under overhanging streambank rocks, on soil. Coll. S. Orbán, 9455/J (Holotype EGR, Isotypes MO, TANA)”.
- Bazzania tessellata*** Meagher, *Nova Hedwigia* 92 (3–4): 492, 2011 (see Meagher 2011). TYPE: “Australia – Queensland, Thornton Peak, P.Phillips s.n., 7 Oct 1986. HOLOTYPE: MELU-506. ISOTYPE: MEL”.
- Brevianthus flavus* subsp. *crenulatus*** J.J.Engel, *Nova Hedwigia* 93 (3–4): 406, 2011 (see Engel 2011). TYPE: “Holotype: New Zealand, South Is., Westland Prov., Lake Kaniere Scenic Reserve, Lake Kaniere Rd, 125 m, Engel, von Konrat & Braggins 24815 (F); isotype: (CHR)”. NOTE: This subspecies also creates the autonym.
- Caudalejeunea tridentata*** R.L.Zhu, Y.M.Wei et Qiong He, *Bryologist* 114 (3): 469, 2011 (see Zhu *et al.* 2011a). TYPE: “CHINA. GUANGXI: Shangsi Co., Shiwandashan National Forest Park, between Sanchahe and Zhujiangyuan, 21°53'695" N, 107°54'459" E, on tree base of *Mytilaria laosensis* Lec., 350 m, 22 August 2010, Rui-Liang Zhu, Yu-Mei Wei & Qiong He 20100822-3A (holotype: HSNU!)”.
- \*\****Cephalozia sanctae-helenae*** M.Wigginton, *Moss. Liverw. St Helena*: 47, 2012, *nom. inval.* ICN Art. 40.6; type not explicitly indicated (see Wigginton 2012b). ORIGINAL MATERIAL: “[St. Helena] s.loc.spec”.

- Ceratolejeunea andringitrae*** Pócs, *Polish Bot. J.* 56 (2): 144, 2011 (see Pócs 2011a). TYPE: “SE MADAGASCAR, Ihorombe Region in former Fianarantsoa Province, Andringitra National Park. Montane rainforests on W side of Korokoro River, around Camp II, at 750–1000 m a.s.l., 22°13'S, 47°1–2'E, epiphyllous. Pócs & A. Szabó 9472/AF, 20–23 Sept. 1994 (HOLOTYPE: EGR, ISOTYPES: MO, TAN)”.
- Ceratolejeunea maranhensis*** Silva Brito et Ilk.-Borg., *Nova Hedwigia* 95 (3–4): 424, 2012 (see Brito & Ilkiu-Borges 2012). TYPE: “Brazil, Maranhão, Mirinzal municipality, Timbó Farm, non-flooded Amazonian forest, 20–50 m alt., 2°6'54.60"S and 44°50'47.58"W, on living tree, 10.8.2011, E.S.Brito 505 (holotypus, MG; isotypus, NY; E.S.Brito 503 (paratypus, MG))”.
- Ceratolejeunea saroltae*** Pócs, *Polish Bot. J.* 56 (2): 150, 2011 (see Pócs 2011a). TYPE: “MADAGASCAR, Toamasina Province, Maromizaha forest, mossy montane rainforest with bamboo (*Nastus* sp.) undergrowth on the summit ridge of Mt. Maromizaha, south of Andasibe Nat. Park, 1080–1214 m a.s.l., on twigs, *Sarolta* Pócs 9890/BJ, 26 Aug. 1998 (HOLOTYPE: EGR)”.
- Ceratolejeunea temnantha*** (Spruce) M.E.Reiner, *Cryptog. Bryol.* 32 (2): 95, 2011 (see Reiner-Drehwald 2011). BASIONYM: *Lejeunea temnantha* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 250, 1884 “*Potamo-Lejeunea*” (see Spruce 1884).
- \*\**Cheilolejeunea fulva*** (R.M.Schust.) W.Ye et R.L.Zhu ex M.Wigginton, *J. Bryol.* 34 (4): 275, 2012, *nom. inval.* ICN Art. 41.5; basionym not cited (see Wigginton 2012a). BASIONYM: *Aureolejeunea fulva* R.M.Schust., *Phytologia* 39 (4): 429, 1978 (see Schuster 1978a).
- Cheilolejeunea gottscheana*** C.J.Bastos, *J. Bryol.* 34 (4): 316, 2012 (see Bastos 2012b). NOM. NOV. PRO *Strepsilejeunea lindenbergii* Steph., *Hedwigia* 35 (3): 130, 1896 (see Stephani 1896). BLOCKING NAME: *Cheilolejeunea lindenbergii* (Gottsche) Mizut., *J. Hattori Bot. Lab.* 33: 326, 1970 (see Mizutani 1970).
- Cheilolejeunea hyalomarginata*** R.L.Zhu et Frank Müll., *Bryologist* 115 (2): 218, 2012 (see Zhu & Müller 2012). TYPE: “NEW CALEDONIA. Mont Panié, Aufstieg entlang des Wanderwegs von der Straße RPN 3 bis zum Gipfel, ca. 900–1300 m, sehr feuchter Regenwald, epiphyll, 14 Sept. 2001, *F. Müller NC18L* (holotype: HSNU; isotype: DR)”.
- Cheilolejeunea microscypha*** (Hook.f. et Taylor) M.Wigginton, *J. Bryol.* 34 (4): 269, 2012 (see Wigginton 2012a). BASIONYM: *Jungermannia microscypha* Hook.f. et Taylor, *London J. Bot.* 4: 90, 1845 (see Hooker & Taylor 1845).
- Cheilolejeunea norrisii*** (Grolle) M.A.M.Renner, *Bryologist* 115 (4): 550, 2012 (see Renner 2012). BASIONYM: *Lejeunea norrisii* Grolle, *Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe* 31 (2): 215, 1982 (see Grolle 1982).
- Cheilolejeunea ornata*** C.J.Bastos, *J. Bryol.* 33 (1): 86, 2011 (see Bastos 2011). TYPE: “Brazil: Bahia, Igrapiúna, Michelin Ecological Reserve, 13°48'S, 39°10'W, Pacangê Forest fragment, 11 August 2006, C. Bastos 4681 (holotype, ALCB)”.
- Cheilolejeunea oscilla*** M.A.M.Renner, *Bryologist* 115 (4): 551, 2012 (see Renner 2012). TYPE: “AUSTRALIA, QUEENSLAND, North Kennedy, vicinity of Cardwell, Five Miles Creek Road, 18°18'S 146°01'E, 80m, *M.A.M. Renner 1646* and *E.A. Brown*, 1 Jul. 2005 (holotype: NSW866201; isotypes: BRI, CANB)”.
- Cheilolejeunea riparia*** (Steph.) M.E.Reiner, *Nova Hedwigia* 95 (3–4): 467, 2012 (see Reiner-Drehwald & Grolle 2012). BASIONYM: *Potamolejeunea riparia* Steph., *Sp. Hepat. (Stephani)* 5: 639, 1914 (see Stephani 1914). NOTE: also redundantly combined by Bastos, *J. Bryol.* 34 (4): 312, 2012 (see Bastos 2012c).
- Cheilolejeunea rotalis*** (Hook.f. et Taylor) M.Wigginton, *J. Bryol.* 34 (4): 270, 2012 (see Wigginton 2012a). BASIONYM: *Jungermannia rotalis* Hook.f. et Taylor, *London J. Bot.* 4: 89, 1845 (see Hooker & Taylor 1845).
- Cheilolejeunea tenerrima*** (Steph.) C.J.Bastos, *J. Bryol.* 34 (4): 317, 2012 (see Bastos 2012b). BASIONYM: *Strepsilejeunea tenerrima* Steph., *Sp. Hepat. (Stephani)* 5: 286, 1913 (see Stephani 1913).
- Cheilolejeunea ulugurica*** Malombe, Eb.Fisch. et Pócs, *Acta Biol. Pl. Agr.* 1: 24, 2010 [2011] (see Malombe *et al.* 2010). TYPE: “Typus : TANZANIA, Uluguru Mts, N side of Bondwa peak, 1650–1880 m, 26 Dec. 1985, B. & T. Pócs, 8565/S, (Holotype: EGR, microslide!)”.
- Chiloscyphus chinnarensis*** Manju, K.P.Rajesh et Madhus., *Acta Bot. Hung.* 53 (1–2): 152, 2011 (see Manju *et al.* 2011). TYPE: “India, Kerala, Idukki district, Chinnar Wildlife Sanctuary, Kariveppin shola, alt.: 1,850 m, on trunk of trees. Coll.: Manju, C. N. and Rajesh, K. P. (87425c), 19 January 2003. Holotype: CALI, isotypes: CALI, EGR”.
- Chiloscyphus engelii*** R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 372, 2011 (see Wang *et al.* 2011). NOM. NOV. PRO *Lophocolea javanica* Schiffn., *Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr.* 70: 195, 1900 (see Schiffner 1900). BLOCKING NAME: *Chiloscyphus javanicus* Steph., *Sp. Hepat.* 6: 308, 1922. (≡*Chiloscyphus schiffneri*

- J.J.Engel et R.M.Schust., *Nova Hedwigia* 39: 422, 1984 [1985], *nom. illeg.* (see Engel & Schuster 1984) [non *Chiloscyphus schiffneri* S.W.Arnell, *Österr. Akad. Wiss., Math. Naturwiss. Kl.* 111: 71, 1964 (see Schiffner & Arnell 1964)].
- \*\**Chiloscyphus profundus* var. *cladogynus* (R.M.Schust.) J.J.Engel ex G.Dauphin, Wunderlin, Essig et P.G.Davison, *J. Bot. Res. Inst. Texas* 5: 785, 2011, *nom. inval.* ICN Art. 41.5; basionym not cited (see Dauphin *et al.* 2011). BASIONYM: *Lophocolea heterophylla* subsp. *cladogyna* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 4: 223, 1980 (Schuster 1980). NOTE: Apparently in error for *Chiloscyphus profundus* subsp. *cladogynus* (R.M.Schust.) J.J.Engel, *Phytologia* 83: 46, 1997 [1998] (see Engel 1997).
- Chiloscyphus yezoensis* T.Katag. et Furuki, *Bryol. Res.* 10 (7): 204, 2012 (see Katagiri & Furuki 2012). NOM. NOV. PRO *Lophocolea japonica* Steph., *Bull. Herb. Boissier (sér. 2)* 6 (11): 941 (121), 1906 (see Stephani 1906).
- \*\**Clevea hyalina* var. *rufescens* (S.W.Arnell) Konstant., *Polish Bot. J.* 57 (1): 185, 2012, *nom. inval.* ICN Art. 41.1; basionym not valid (see Konstantinova & Savchenko 2012). BASIONYM: *Clevea hyalina* f. *rufescens* S.W.Arnell, *Ark. Bot., n.s.* 4 (6): 123, 1959, *nom. inval.* ICN Art. 40.2; based on more than one gathering (see Arnell & Mårtensson 1959).
- Clevea pusilla* (Steph.) Rubas. et D.G.Long, *J. Bryol.* 33 (2): 167, 2011 (see Rubasinghe *et al.* 2011). BASIONYM: *Gollaniella pusilla* Steph., *Hedwigia* 44 (2): 74, 1905 (see Stephani 1905).
- Cololejeunea* subgen. *Incalejeunea* Tixier ex Pócs, *Acta Bryolichenol. Asiat.* 4: 129, 2011 (see Pócs & Piippo 2011). TYPE: *Cololejeunea erostrata* (Herzog) Bernecker et Pócs.
- Cololejeunea* subgen. *Metzgeriopsis* (K.I.Goebel) Pócs, *Acta Bryolichenol. Asiat.* 4: 106, 2011 (see Pócs & Piippo 2011). BASIONYM: *Metzgeriopsis* K.I.Goebel, *Ann. Jard. Bot. Buitenzorg* 7: 54, 1888 (see Goebel 1888).
- Cololejeunea altimontana* Pócs, *Acta Bryolichenol. Asiat.* 4: 78, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Star Mts. Near Mt. Capelle Base Camp, just within the border of subalpine forest, 3500 m alt., 5°S, 141°05'E. Epiphyllous on c. 1.5 m tall shrublet in undergrowth, 5.IV.975 A. *Touw 15254D* (L, holotype, EGR, microslide)”.
- Cololejeunea angustibracteata* (Schiffn.) Pócs, *Acta Bryolichenol. Asiat.* 4: 81, 2011 (see Pócs & Piippo 2011). BASIONYM: *Lejeunea angustibracteata* Schiffn., *Leberm., Forschungsr. Gazelle* 4: 34, 1889 (see Schiffner 1889).
- Cololejeunea aurantia* (Tixier) Thouvenot, *Cryptog. Bryol.* 32 (4): 290, 2011 (see Thouvenot *et al.* 2011). BASIONYM: *Jovetastella aurantia* Tixier, *Cryptog. Bryol. Lichénol.* 3 (1): 29, 1982 (see Tixier 1982).
- Cololejeunea bifalcata* Pócs, *Acta Bot. Hung.* 54 (1–2): 146, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Central part of Taveuni Island. NE side of Des Voeux Peak, at 960 m alt. S 16°50.220', W 179°58.369', epiphyllous in 10–20 m tall, mossy montane rainforest. Coll.: S. & T. Pócs 03280/CK, 27. Aug. 2003. (Holotype: EGR, isotype F)”.
- Cololejeunea blepharophylla* Pócs, *Acta Bot. Hung.* 54 (1–2): 149, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Central part of Taveuni Island. NE side of Des Voeux Peak, at 960 m alt. S 16°50.220', W 179°58.369', epiphyllous in 10–20 m tall, mossy montane rainforest. Coll.: S. & T. Pócs 03280/BM, 27. Aug. 2003. (Holotype: EGR, isotypes F, G, HSNU, SPRH)”.
- Cololejeunea crateris* Pócs, *Acta Bot. Hung.* 54 (1–2): 153, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, S tip of TAVEUNI Island. In the crater of the extinct Tavuyagea volcano, at 200 m altitude, S 16°59.660', E 179°55.296', wet rainforest with many epiphytes, epiphyllous on ferns leaves. Coll.: S. & T. Pócs 03293/AN, 5. Sept. 2003 (Holotype: EGR, isotypes: F, SPRH)”.
- Cololejeunea flavovittata* Pócs, *Acta Bryolichenol. Asiat.* 4: 120, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Frieda River prospecting area Mt. Hartley 8 km N of Frieda Base Camp, well-developed moss forest on ridge, 4°38'S, 141°47'E, at 1350 m alt, loc. 5a, 1981 *T. Koponen 35287* (H, holotype, EGR, isotype)”.
- Cololejeunea kolombangarae* Pócs, *Acta Bryolichenol. Asiat.* 4: 67, 2011 (see Pócs & Piippo 2011). TYPE: “Solomon Islands. New Georgia Prov. Kolombangara I. In mat of *Bazzania horridula* Schiffn., intermixed with *Drepanolejeunea* sp. on moist shaded bark of tree in rainforest on middle slope of mountain ridge north of Vanga River on northwest side of island at 1000–1200 m alt., 7°57'S, 157°03'E, 13.VIII.1977 *D.H. Norris & G.L. Roberts 49790* (H, holotype)”.
- Cololejeunea kolombangarae* subsp. *sepikensis* Pócs, *Acta Bryolichenol. Asiat.* 4: 68, 2011, “*sepikense*” (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Frieda River Prospecting Area of Frieda Copper Co., 9 km NW of Frieda Base camp, helipad M 200 of Nena area. Tropical rainforest and recent clearing, alt. 800 m, locality 3a, 4°40'S, 141°43'E, 1981 *T. Koponen 35033a* (H, holotype)”. NOTE: This subspecies also creates the autonym.

- Cololejeunea konratii*** Pócs, *Acta Bot. Hung.* 54 (1–2): 156, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Viti Levu Island, *Cyathea–Alpinia boia* elfin forest on the NE side of the summit with telecom tower 2 km E of Monasavu dam, on the decaying pseudostem of *Alpinia boia*, at 1050 m, S 17°45'20", E 178°04'11". Coll. T. Pócs, accompanied by M. von Konrat, J. Braggins, E. Brown, A. Fife, M. Renner, T. Lumbsch and guided by A. Naikatini. Pócs 08029/C, 16 Apr. 2008 (Holotype on microslide, EGR)”.
- Cololejeunea kuciana*** Pócs et Schäf.-Verw., *Polish Bot. J.* 57 (1): 51, 2012 (see Pócs & Schäfer-Verwimp 2012). TYPE: “ECUADOR, ZAMORA-CHINCHIPE, Reserva Biológica San Francisco ca 35 km east of Loja along road to Zamora, 3°58.7'S, 79°05.0'W, lower montane rain forest along ‘camino canal’, epiphyllous on Hymenophyllaceae, in association with *Cololejeunea sicaefolia*, *C. diaphana* and *Radula stenocalyx*, growing in the rather humid and shady understorey, 1890 m alt., 28 January 2011, A. Schäfer-Verwimp & M. Nebel 32062 (HOLOTYPE: STU; ISOTYPES: EGR, QCA)”.
- Cololejeunea magnifica*** Pócs, *Acta Bryolichenol. Asiat.* 4: 88, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. Morobe Prov. Huon Peninsula, Southern Range of Mt. Sarawaket 6 km SSW of Iloko. In upper montane rainforest approaching moss forest along trail between Iloko and Mt. Sarawaket, at 2700–2900 m alt., 147°10'E, 6°18.5'S. Locality 6z, 10.VII.1981 D.H. Norris 63363A (H, holotype, EGR, microslide)”.
- \*\****Cololejeunea mutabilis* var. *borneensis*** Chuah-Pet., *Polish Bot. J.* 56 (1): 26, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Cololejeunea mutabilis* f. *borneensis* Benedix, *Feddes Repert. Spec. Nov. Regni Veg. Beih.* 134: 28, 1953 (see Benedix 1953).
- Cololejeunea pacifica*** Pócs, *Acta Bot. Hung.* 54 (1–2): 158, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, southern coast of Viti Levu Island (“Coral Coast”) in the high rainfall area. Between Navula and Lombau villages, along the Queens Road, at 2–3 m alt. S 18°12.483', E 178°10.813', epiphyllous in 10–12 m tall, *Pandanus tectorius* dominated swamp forest adjoining mangroves along lagunes on the coastal plain. Coll.: S. & T. Pócs 03260/N, 20. Aug. 2003 (Holotype: EGR)”.
- Cololejeunea saroltae*** Pócs, *Acta Bot. Hung.* 54 (1–2): 160, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Western part of KADAVU (Kandavu) Island, 2 km NE of Tavuki village, at 150–175 m altitude. S 19°04.097–101', E 178°07.980'–08.249'. Epiphyllous in dry evergreen microphyllous forest with emergent *Gymnostoma vitiense* trees, many creeping *Flagellaria* and with *Schizaea dichotoma* and Cyperaceae in the ground layer, on orange red volcanic soil. Coll.: S. & T. Pócs 03309/BC, 15 Sept. 2003. (Holotype: EGR, isotypes F, G, HSNU, SPRH)”.
- Cololejeunea schmidtii* var. *acutepapillosa*** Pócs, *Acta Bot. Hung.* 54 (1–2): 165, 2012 (see Pócs 2012a). TYPE: “Type: Fiji Islands, E side of Taveuni Island. Around the 1st Tavoro Waterfalls, above Korovou (Bouma) village, at 10–100 m alt. S 16°49.608–620', W 179°52.555–850', epiphyllous in a very wet lowland rainforest with many tree-ferns and epiphytes. Coll.: S. & T. Pócs 03282/BK, 29. Aug. 2003 (Holotype: EGR)”. NOTE: This variety also creates the autonym.
- Cololejeunea stellaris*** Pócs, *Acta Bryolichenol. Asiat.* 4: 70, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Star Mts. c. 5°S, 141°E, 3050 m alt. Tel Basin; Montane forest above Camp 2, on shrubs in undergrowth, 5. April 1975 A. Touw 15739A (L, holotype, EGR, isotype)”.
- Cololejeunea stotleriana*** Gradst., Ilk.-Borg. et Vanderp., *Bryologist* 114 (1): 13, 2011 (see Gradstein *et al.* 2011). TYPE: “Ecuador. Zamora-Chichipe: Río Nangaritza ca. 28 km S of Guayzimi, near Cabaños Yankuam, abundant on living leaves on trees in the periodically inundated banks of the river, with *Odontolejeunea lunulata*, *Ceratolejeunea coarina* and *Drepanolejeunea biocellata*, ca. 900 m a.s.l., 13 September 2008, S. R. Gradstein 12073 (holotype, QCA; isotypes, GOET, MG)”.
- Cololejeunea streimannii*** Pócs, *Acta Bryolichenol. Asiat.* 4: 96, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. Western Highlands Prov. Gernt River, Jimi Valley near Ruti, 54 N of Mt. Hagen, lowland rainforest at 600 m alt., 5°22'S, 144°16'E. Epiphyllous, on leaf of small palm, 2.VII.1982 H. Streimann 21977 p.p. (associated with *Cololejeunea angulata* (Steph.) Mizut.) (H, holotype, isotypes in CBG 8402867, JE, LAE, NICH, NY, microslide in EGR)”.
- Cololejeunea streimannii* subsp. *solomonensis*** Pócs, *Acta Bryolichenol. Asiat.* 4: 96, 2011 (see Pócs & Piippo 2011). TYPE: “Type: Solomon Islands. New Georgia Prov. Kolombangara I. Lowland rainforest along ridge north of Wanga River on northwest side of island, 7°56'S, 156°5'E, 100–300 m alt. D.H. Norris & G.L. Roberts 49279B (H, holotype, EGR, isotype, paratype in H from the same locality, D.H. Norris & G.L. Roberts 49255D)”. NOTE: This subspecies also creates the autonym.
- Cololejeunea subalpina*** Pócs, *Acta Bryolichenol. Asiat.* 4: 98, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Star Mts., near Mt. Capella Base Camp. Epiphyllous, 5°S, 141°05'E, at 3500 m alt., 7.V.1975 A. Touw 17254A (L, holotype)”.

- Cololejeunea tamasii*** Schäf.-Verw., *Phytotaxa* 60: 9, 2012 (see Schäfer-Verwimp 2012). TYPE: “PANAMA. Chiriqui: Cordillera de Talamanca, Boquete, Ostseite des Vulkan Baru, Regenwald entlang der Erdstraße zum Sendero Los Quetzales, epiphyll, 1880 m, 8°51.0'N, 82°29.9'W, 7 April 2010, A. Schäfer-Verwimp & I. Verwimp 30992 (holotype JE!; isotype EGR!)”.
- Cololejeunea timoi*** Pócs, *Acta Bryolichenol. Asiat.* 4: 98, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. Morobe Prov. Lake Wamba 5 km S of Teptep airstrip. Heavily disturbed (pigs) montane forest with large *Pandanus* trees S of lake, 5°S, 141°05'E, at 2400 m alt., on root of *Pandanus*, locality 2b, 23 July 1981 T. Koponen 33354 (H, holotype)”.
- Cololejeunea touwii*** Pócs, *Acta Bryolichenol. Asiat.* 4: 101, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Star Mts., Folongonom, upper montane forest near Papuan hunting camp. Epiphyllous on fern leaves in the undergrowth, c. 5°S, 141°05'E, at 2300 m alt., A. Touw 17817F (L, holotype, EGR, H, isotypes)”.
- Cololejeunea trichomanis* subsp. *cordiflora*** (Steph.) Pócs, *Acta Bryolichenol. Asiat.* 4: 104, 2011 (see Pócs & Piippo 2011). BASIONYM: *Cololejeunea cordiflora* Steph., *Hedwigia* 34 (5): 246, 1895 (see Stephani 1895b). NOTE: This variety also creates the autonym.
- Cololejeunea tuiwawana*** Pócs, *Acta Bot. Hung.* 54 (1–2): 165, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Central part of Viti Levu Island, NE Edge of Rairaimatuku Plateau, Above Naqelewai village, S from “Barclay’s Point”, at 855–945 m alt. S 17°44.208–264', E 178°03.300–573', epiphyllous in montane mossy (cloud) forest. Coll.: S. & T. Pócs 03273/CG, 24. Aug. 2003 (EGR, SPRH)”.
- Cololejeunea zantenorum*** Pócs, *Acta Bryolichenol. Asiat.* 4: 127, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. Morobe Prov. E part of Cromwell Mts., epiphyllous on fern leaflets in dense rainforest along Soing River c. 7 km W of Sivea, at 1850–1900 m alt., 6°19'S, 147°32'E, loc. 9d, D.H. Norris 61605 (H, holotype)”.
- Colura irrorata*** (Spruce) Heinrichs, Y.Yu, Schäf.-Verw. et Pócs, *Phytotaxa* 66: 58, 2012 (see Heinrichs *et al.* 2012a). BASIONYM: *Myriocolea irrorata* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 305, 1884 (see Spruce 1884).
- Colura thomeensis*** Pócs, *Bryologist* 114 (2): 363, 2011 (see Pócs 2011b). TYPE: “São Thomé Island, S of Pico Cão Grande, NNE of Monte Mario village, in old partly abandoned oil plant plantation, at 60 m alt., epiphyllous, T. Pócs 00156/M. 31. Aug. 2000 (holotype: EGR, isotypes: DR, G)”.
- \*\****Cylindrocolea helenae*** M.Wigginton, *Moss. Liverw. St Helena*: 49, 2012, *nom. inval.* ICN Art. 40.2; based on more than one gathering (see Wigginton 2012b). ORIGINAL MATERIAL: [Sancta Helena] s.loc.spec.
- Dendroceros paivae*** C.A.Garcia, Sérgio et J.C.Villarreal, *Cryptog. Bryol.* 33 (1): 5, 2012 (see Garcia *et al.* 2012). TYPE: “São Tomé e Príncipe. Ilha de São Tomé. Caminho para a Roça Trás-os-Montes. 32NKF3129. 1038 m. 19-07-2007. Epiphyllous on leaves of *Syzygium jambos* (L.) Alston. C. Garcia ST 125 (LISU 237201)”.
- Drepanolejeunea evansii*** Bischl. ex L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 47, 2012 (see Söderström *et al.* 2012b). BASED ON: *Drepanolejeunea evansii* Bischl., *Rev. Bryol. Lichénol.* 33 (1–2): 75, 1964, *nom. inval.* ICN Art. 39.1; no Latin description (see Bischler 1964).
- Drepanolejeunea fragilis*** Bischl. ex L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 47, 2012 (see Söderström *et al.* 2012b). BASED ON: *Drepanolejeunea fragilis* Bischl., *Rev. Bryol. Lichénol.* 33 (1–2): 123, 1964, *nom. inval.* ICN Art. 36.1; no Latin description (see Bischler 1964).
- Drepanolejeunea laciniata*** Qiong He et R.L.Zhu, *Cryptog. Bryol.* 33 (3): 292, 2012 (see He *et al.* 2012a). TYPE: “Thailand. Chiang Mai Province: Chom Thong District, Doi Inthanon National Park, summit, *Sphagnum* bog, 18°58' 14"N, 98°48' 62" E, 2530 m, on living leaves of *Rhododendron* sp., 20 Dec. 2011, Rui-Liang Zhu 20111220-30A (holotype: HSNU!)”.
- \*\****Drepanolejeunea micholitzii* var. *brevifolia*** Chuah-Pet., *Polish Bot. J.* 56: 29, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Drepanolejeunea micholitzii* f. *brevifolia* Herzog, *Ann. Bryol.* 7: 64, 1934, *nom. inval.* ICN Art. 38.1(a); no description (see Herzog 1934).
- Endogemma*** Konstant., Vilnet et A.V.Troitsky, *Folia Cryptog. Estonica* 48: 132, 2011 (see Vilnet *et al.* 2011). TYPE: *Endogemma caespiticia* (Lindenb.) Konstant., Vilnet et A.V.Troitsky.
- Endogemma caespiticia*** (Lindenb.) Konstant., Vilnet et A.V.Troitsky, *Folia Cryptog. Estonica* 48: 132, 2011 (see Vilnet *et al.* 2011). BASIONYM: *Jungermannia caespiticia* Lindenb., *Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 14, suppl.: 67, 1829 “*caespititia*” (see Lindenberg 1829).
- Endogemmataceae** Konstant., Vilnet et A.V.Troitsky (fam.), *Folia Cryptog. Estonica* 48: 132, 2011 (see Vilnet *et al.* 2011). TYPE: *Endogemma* Konstant., Vilnet et A.V.Troitsky.

- Eotrichocolea furukii*** T.Katag., *Bryologist* 115 (4): 519, 2012 (see Katagiri *et al.* 2012). TYPE: “MALAYSIA. BORNEO, Sabah, Mt. Kinabalu, along Silau-Silau Trail, near Headquarters, on soil, 1500 m alt., in evergreen forest, 17 Dec. 2003, Furuki & Suleiman 18951 (holotype: CBM; isotypes: BORH, HIRO)”.
- \*\****Folioceros harrietii*** S.J.Chavan, *Bioinfolet* 8 (3): 242, 2011, *nom. inval.* ICN Art. 40.1; no type indicated (see Chavan 2011). ORIGINAL MATERIAL: “[Andaman] s.loc.spec”.
- Folioceros verruculosus*** (J.Haseg.) R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 383, 2011 (see Wang *et al.* 2011). BASIONYM: *Anthoceros verruculosus* J.Haseg., *Acta Phytotax. Geobot.* 44 (2): 103, 1993 (see Hasegawa 1993).
- Fossombronia ruminata*** G.A.M.Scott et D.C.Pike ex Cargill, *Phytotaxa* 65: 45, 2012 (see Cargill *et al.* 2012). BASED ON: *Fossombronia maritima* G.A.M.Scott et D.C.Pike ex Cargill, *Fl. Austral. Suppl.* 21: 114, 2003, *nom. illeg.* ICN Art. 53.1; hom. illeg. [non (Paton) Paton 1994] (see McCarthy 2003).
- Frullania sect. Amphijubula*** (R.M.Schust.) von Konrat, Hentschel, Heinrichs et Braggins, *Bryologist* 114 (1): 53, 2011 (see von Konrat *et al.* 2011b). BASIONYM: *Amphijubula* R.M.Schust., *J. Hattori Bot. Lab.* 33: 298, 1970 (see Schuster 1970).
- †***Frullania baerlocheri*** Heinrichs, M.E.Reiner, K.Feldberg, von Konrat, Hentschel, Vána et A.R.Schmidt, *Rev. Palaeobot. Palynol.* 169: 26, 2012 (Heinrichs *et al.* 2012). TYPE: “Amber inclusion AMNH Bu-FB 1 g, American Museum of Natural History, New York, Plate IV”
- Frullania curvilobula*** Schäf.-Verw., D.F.Peralta et S.M.Siqueira, *Phytotaxa* 57 (1): 27, 2012 (see Schäfer-Verwimp *et al.* 2012). TYPE: “BRAZIL. São Paulo: Cananéia, Ilha do Cardoso, Pico do Cardoso, em vegetação arbustiva, substrato caule e ramos, 9 April 1991, S.R. Visnadi & D.M. Vital 4282 (holotype SP!)”.
- Frullania evelynae* var. *devendrae*** Sushil K.Singh et Barbhuiya, *Taiwania* 57 (2): 109, 2012 (see Singh & Barbhuiya 2012). TYPE: “INDIA, Mizoram, towards Pangkhua from Sangau, Terrestrial, 28.06.2008, S. K. Singh 119860 (ASSAM: Holotype)”. NOTE: This variety also creates the autonym.
- Frullania evelynae* var. *srivastavae*** Sushil K.Singh et Barbhuiya, *Taiwania* 57 (2): 112, 2012 (see Singh & Barbhuiya 2012). TYPE: “INDIA, Mizoram, Thaltlang, epiphytic, growing in association with *Frullanoides* sp., 25.06.2008, S. K. Singh 119728 (ASSAM: Holotype)”.
- Frullania knightbridgei*** von Konrat et de Lange, *PhytoKeys* 8: 28, 2012 (see von Konrat *et al.* 2012a). TYPE: “New Zealand: Stewart Island: Rakiura/Stewart Island National Park, 500 m. from North Arm Hut, on bark of *Dracophyllum longifolium* overhanging water on margin of Patterson Inlet, canopy of stunted *Dacrydium cupressinum* and *Metrosideros umbellata*. Near sea level, 46°52'55"S, 168°01'04"E, 12 Dec 1999, M. von Konrat 99/12-09 (holotype AK; isotypes CHR, F)”.
- Frullania larjiana* var. *didyhatii*** S.N.Srivast. et M.Rai, *Geophytology* 41: 109, 2011, “*largiana*” (see Srivastava & Rai 2011). TYPE: “India, Uttarakhand, Pithoragarh district, Didyhat (2020 m) April 1982, leg. S. N. Srivastava: H-82/1 (holotype); H-82/2 (Isotype). Deposited in Allahabad University Herbarium”. NOTE: This variety also creates the autonym.
- Frullania mizoramensis*** Sushil K.Singh et Barbhuiya, *Taiwania* 57 (2): 106, 2012 (see Singh & Barbhuiya 2012). TYPE: “INDIA, Mizoram, Thaltlang to Sangau, Terrestrial, 26.06.2008, S. K. Singh 119808 (ASSAM: Holotype)”.
- \*\****Frullania ornithocephala* var. *magnilobula*** S.Hatt. ex Chuah-Pet., *Polish Bot. J.* 56 (1): 21, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Frullania ornithocephala* f. *magnilobula* S.Hatt., *J. Hattori Bot. Lab.* 40: 491, 1976 (see Hattori 1976).
- \*\****Frullania ornithocephala* var. *retusa*** S.Hatt. ex Chuah-Pet., *Polish Bot. J.* 56 (1): 21, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Frullania ornithocephala* f. *retusa* S.Hatt., *J. Hattori Bot. Lab.* 40: 491, 1976 (see Hattori 1976).
- Frullania parhamii*** (R.M.Schust.) R.M.Schust. ex von Konrat, L.Söderstr. et A.Hagborg, *Telopea* 13 (3): 407, 2011 (see Söderström *et al.* 2011). BASIONYM: *Neohattoria parhamii* R.M.Schust., *J. Hattori Bot. Lab.* 26: 243, 1963 “*parhami*” (see Schuster 1963).
- \*\****Frullania serrata* var. *crispulodentata*** Verd. ex Chuah-Pet., *Polish Bot. J.* 56 (1): 21, 2011, “*crispulo-dentata*”, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Frullania serrata* f. *crispulo-dentata* Verd., *Ann. Bryol.* 2: 142, 1928 (see Verdoorn 1928).
- Frullania truncatistyla*** von Konrat, Hentschel, Heinrichs et Braggins, *Bryologist* 114 (1): 63, 2011 (see von Konrat *et al.* 2011). TYPE: “New Zealand. North Island: Coromandel State Forest Park, summit of Table Mountain. On bark of *Dacrydium cupressinum*. Poorly drained, mucky, fine, peat floor in wet mossy forest of *Lepidothamnus intermedius*, *Ixerba brexioides* and *Dacrydium cupressinum* with occasional *Phyllocladus toatoa*. 37°3'S., 175°40'E. 835 m., 14 February 1997, von Konrat 97/132 (holotype: AK; isotypes: CHR, F)”.



- †*Frullania ucrainica* Konstant. et Ignatov, *Arctoa* 21: 269, 2012 (see Konstantinova *et al.* 2012). TYPE: “HOLOTYPE: Klesov. Rovno amber. Late Eocene. SIZK-K-6581 [syninclusions: 4 workers of *Dolichoderus* sp. (Formicidae) (K-6580), Collembola, Entomobryomorpha (K-6581)”.
- Goebelobryum vermiculare* J.J.Engel et Glenny, *Nova Hedwigia* 95 (3–4): 320, 2012 (see Engel & Glenny 2012). TYPE: “Holotype: New Zealand, Western Nelson Province, Tiropahi River, Charleston Conservation Area, 110 m, Glenny 9298 (F); isotype: (CHR 579823)”.
- Gottschea sect. Tuloides* (R.M.Schust.) J.J.Engel, *Nova Hedwigia* 93 (3–4): 407, 2011 (see Engel 2011). BASIONYM: *Paraschistochila sect. Tuloides* R.M.Schust., *Bull. Natl. Sci. Mus. Tokyo, n.s.* 14 (4): 647, 1971 (see Schuster 1971).
- Gottschea conchophylla* var. *multidentata* J.J.Engel, *Nova Hedwigia* 93 (3–4): 407, 2011 (see Engel 2011). TYPE: “Holotype: New Zealand, South Is., Canterbury, Arthurs Pass, falls behind Department of Conservation Station, off Avalanche Peak Track, ca. 790 m, Engel & von Konrat 27243 (F); isotype: (CHR)”. NOTE: This variety also creates the autonym.
- Gottschea isotachyphylla* (J.J.Engel et R.M.Schust.) J.J.Engel, *Nova Hedwigia* 93 (3–4): 407, 2011 (see Engel 2011). BASIONYM: *Paraschistochila isotachyphylla* J.J.Engel et R.M.Schust., *J. Hattori Bot. Lab.* 58: 429, 1985 (see Schuster & Engel 1985).
- Harpalejeunea scabra* Gradst. et Schäf.-Verw., *Cryptog. Bryol.* 32 (2): 102, 2011 (see Gradstein & Schäfer-Verwimp 2011). TYPE: “Colombia, Risaralda, road to Mistrato – San Antonio de Chami just beyond the pass, quebrada of Río Sutú, 1800 m, rather heavily logged, low montane cloud forest along the river, on rock, 30 July 1992, S.R. Gradstein 8695 (holotype, COL; isotype, GOET)”.
- \*\**Herbertus mascarenicus* var. *kikujensis* Gola ex N.G.Hodgetts, *J. Bryol.* 30 (4): 252, 2008, *nom. inval.* ICN Art. 36.1(c); publ. in syn. [sub *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. et Nees) Trevis. 1877] “*kikujense*” (see Hodgetts 2008). BASED ON: *Schisma mascarenicum* var. *kikujensis* Gola, *Mem. Reale Accad. Sci. Torino, ser.* 2 65 (1): 7, 1916 (see Gola 1916).
- Herbertus norenus* D.G.Long, D.Bell et H.H.Blom, *Molec. Ecol. Res.* 12: 44, 2012 (see Bell *et al.* 2012). TYPE: “Holotype: Norway, Rogaland, Forsand Parish, S side of Lysefjord, ravine, Giskasetet, 58°59'58.4"N, 06°18'49.5"E, N-facing ravine with large waterfall, on cliff ledge with *Breutelia* and *Sphagnum denticulatum*, 5 m, 9 September 2008, D.G. Long 38081 (with G.P. Rothero, D.S. Rycroft & H.H. Blom) (E). GenBank accessions JN113442, JN113483, JN113558, JN113519; BOLD ID HERB026-11”.
- Jubula hutchinsiae* subsp. *caucasica* Konstant. et Vilnet, *Arctoa* 20: 234, 2011 (see Konstantinova & Vilnet 2011). TYPE: “RUSSIA, Republic of Adygea, right bank of the Belaya River in surroundings of Guseripl' Town, cliffs on bank of small rivulet (43°59'30" N - 40°08'06" E), 682 m alt., the bottom of cliffs near water level, on rock and among mosses, 17.X.2007, Konstantinova # K463-1-07 (holotype KPABG, isotypes MW, MHA, VLA, LE)”.
- †*Kaolakia* Heinrichs, M.E.Reiner, K.Feldberg, von Konrat et A.R.Schmidt, *Rev. Palaeobot. Palynol.* 165 (3–4): 236, 2011 (see Heinrichs *et al.* 2011). TYPE: *Kaolakia borealis* Heinrichs, M.E.Reiner, K.Feldberg, von Konrat et A.R.Schmidt.
- †*Kaolakia borealis* Heinrichs, M.E.Reiner, K.Feldberg, von Konrat et A.R.Schmidt, *Rev. Palaeobot. Palynol.* 165 (3–4): 236, 2011 (see Heinrichs *et al.* 2011). TYPE: “Holotype: Amber inclusion no. AMNH AK-1, American Museum of Natural History, New York (Plate I). Type locality: Northern Alaska: Kaolak River south of Wainwright at 69–70° N, 159–160°W. Stratigraphic range and age: Upper Cretaceous: Cenomanian, about 95 million years old”.
- Kurzia capillaris* subsp. *paramicola* Pócs, *Acta Biol. Pl. Agr.* 2: 102, 2012 (see Pócs 2012b). TYPE: “COLOMBIA, Departamento Cundinamarca, Páramo de Palacio, approx. 500 m NW de la mina de Cal, vertiente húmedo con *Swallenochloa*, *Sphagnum*, *Breutelia* y *Riccardia*, alt. 3530 m, 13-V-1972. Coll. A.M. Cleef 3781, (Holotype U, Isotypes COL 379349, EGR only on microslide)”.
- Lamellocolea integrostia* J.J.Engel et Glenny, *Bryologist* 114 (1): 23, 2011 (see Engel & Glenny 2011). TYPE: “New Zealand. SOUTH ISLAND. Western Nelson Ecological Prov., Ngakawau Ecological District, Mokihinui Forest, Watson Stream, 290 m, NZMG N5955478 E2423588, 41° 37.48'S, 171° 57.30'E, Glenny 10545, 27 Jan 2009 (holotype: F, isotype: CHR)”.
- \*\**Leiocolea badensis* var. *apiculata* Konstant., *Polish Bot. J.* 57 (1): 186, 2012, *nom. inval.* ICN Art. 40.6; type not explicitly indicated (see Konstantinova & Savchenko 2012). NOTE: Apparently in error for *Lophozia badensis* var. *apiculata* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 415, 1969 (see Schuster 1969).
- Leiomitra merrillana* (Steph.) T.Katag., *Bryologist* 115 (4): 488, 2012 (see Katagiri & Deguchi 2012). BASIONYM: *Trichocolea merrillana* Steph., *Sp. Hepat. (Stephani)* 6: 374, 1923 (see Stephani 1923).

- Leiosporocerotaceae** Hässel ex Ochyra (fam.), *Polish Bot. J.* 56: 115, 2011 (see Ochyra 2011). TYPE: *Leiosporoceros* Hässel.
- Lejeunea barbata*** (Herzog) R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 376, 2011 (see Wang *et al.* 2011). BASIONYM: *Rectolejeunea barbata* Herzog, *J. Hattori Bot. Lab.* 14: 49, 1955 (see Herzog & Noguchi 1955).
- Lejeunea bornmuelleri*** (Steph.) M.E.Reiner, *Nova Hedwigia* 95 (3–4): 471, 2012 (see Reiner-Drehwald & Grolle 2012). BASIONYM: *Rectolejeunea bornmuelleri* Steph., *Sp. Hepat. (Stephani)* 5: 682, 1914 (see Stephani 1914).
- Lejeunea combuensis*** O.S.Moura, Ilk.-Borg. et M.E.Reiner, *Nova Hedwigia* 95 (1–2): 198, 2012 (see Moura *et al.* 2012). TYPE: “Brazil, Pará, Belém, Combu Island, Lower Várzea forest, on living tree, at sea level, 26/IX/2008, O.S. de Moura *et al.* 204 (holotypus MG, isotypus GOET), 207, 211 (paratypus MG, isoparatypi NY, SP); on decaying trunk, 27/IX/2008, O.S. de Moura *et al.* 274 (paratypus MG, isoparatypi GOET, RB)”.
- Lejeunea drehwaldii*** Heinrichs et Schäf.-Verw., *Phytotaxa* 69: 14, 2012 (see Heinrichs *et al.* 2012b). NOM. NOV. PRO *Sphaerolejeunea umbilicata* Herzog, *Ann. Bryol.* 11: 88, 1938 (see Herzog 1938). BLOCKING NAME: *Lejeunea umbilicata* (Nees) Nees, *Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., suppl.* 19 (2): 472, 1843. (see Gottsche *et al.* 1843).
- \*\****Lejeunea fawcettiae*** D.J.Carr, *Proc. Roy. Soc. Victoria* 116 (2): 229, 2004, *nom. inval.* ICN Art. 40.7; no herbarium specified (see Carr 2004). ORIGINAL MATERIAL: “Holotype. The following description is based on the specimen (Carr, S.G.M. 357) collected by Mrs Carr in March 1957 growing on the bark of Blackwood (*Acacia melanoxylon*) tree near the Railway Station; Tooronga Falls, Noojee, Victoria”.
- Lejeunea fawcettiae*** D.J.Carr, *Proc. Roy. Soc. Victoria* 117: 325, 2005 (see Carr 2005). BASED ON: *Lejeunea fawcettiae* D.J.Carr, *Proc. Roy. Soc. Victoria* 116 (2): 229, 2004, *nom. inval.* ICN Art. 40.7; no herbarium specified (see Carr 2004).
- Lejeunea gradsteiniana*** Pócs, *Acta Biol. Pl. Agr.* 1: 55, 2010 [2011] (see Pócs 2010b). NOM. NOV. PRO *Ceratolejeunea aberrans* Steph., *Sp. Hepat. (Stephani)* 6: 399, 1923 (see Stephani 1923). BLOCKING NAME: *Lejeunea aberrans* Lindenb. et Gottsche, *Syn. Hepat.* 5: 751. 1847 (see Gottsche *et al.* 1847).
- Lejeunea gradsteinii*** G.E.Lee, Damanhuri et Latiff, *Acta Biol. Pl. Agr.* 1: 29, 2010 [2011] (see Lee *et al.* 2010). TYPE: “Malaysia, Sabah, Mt. Kinabalu, trail from Mempoening shelter to Layang-Layang staff quarters, montane forest, on tree trunk, 2500–2800 m alt., 12 November 2010, G.E. Lee 1891 (holotype, UKMB; isotype, PC)”.
- Lejeunea grolleana*** (Bernecker) R.L.Zhu et W.Ye, *J. Syst. Evol.* 51 (4): 472, 2013 [2012] (see Ye *et al.* 2013). BASIONYM: *Oryzolejeunea grolleana* Bernecker, *Hausknechtia, Beih.* 9: 37, 1999 (see Bernecker-Lücking 1999). NOTE: The combination was invalidly published twice prior to the valid publication (Zhu *et al.* 2011b: 46, Ye & Zhu 2012: 83, *non vidi*).
- Lejeunea hawaikiana*** M.A.M.Renner et de Lange, *New Zealand J. Bot.* 49 (3): 431, 2011 (see Renner & de Lange 2011). NOM. NOV. PRO *Stenolejeunea acuminata* R.M.Schust., *J. Hattori Bot. Lab.* 89: 156, 2000 (see Schuster 2000).
- Lejeunea luzonensis*** (Steph.) R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 376, 2011 (see Wang *et al.* 2011). BASIONYM: *Taxilejeunea luzonensis* Steph., *Hedwigia* 35 (3): 134, 1896 (see Stephani 1896).
- Lejeunea malangensis*** (Herzog) R.L.Zhu et Y.M.Wei, *J. Bryol.* 34 (4): 319, 2012 (see Zhu & Wei 2012). BASIONYM: *Trachylejeunea malangensis* Herzog, *Mitt. Inst. Allg. Bot. Hamburg* 7 (3): 203, 1931 (see Herzog 1931).
- \****Lejeunea saccatiloba*** (Steph.) R.L.Zhu et W.Ye, *J. Syst. Evol.* 51 (4): 472, 2013 [2012], *nom. illeg.* ICN Art. 53.1; *hom. illeg.* [non Steph. ex Anon. 1891] (see Ye *et al.* 2013). BASIONYM: *Archilejeunea saccatiloba* Steph., *Hedwigia* 34 (2): 61, 1895 (see Stephani 1895a). BLOCKING NAME: *Lejeunea saccatiloba* (Steph.) Steph. ex Anon., *Hedwigia* 30: IX, 1891 (see Anonymous 1891). NOTE: The combination was invalidly published twice prior to the valid publication (Zhu *et al.* 2011b: 46, Ye & Zhu 2012: 85; *non vidi*).
- \*\****Lejeunea squarrosa*** (Steph.) Y.M.Wei et R.L.Zhu, *Nat. Symp. Bryol. Abstr.*: 26–27, 2011, *nom. inval.* (ICN Art. 41.5; basionym not cited (see Wei & Zhu 2011; *non vidi*). BASIONYM: *Strepsilejeunea squarrosa* Steph., *Hedwigia* 35 (3): 130, 1896 (see Stephani 1896). NOTE: Name not available in *Lejeunea*.
- Lejeunea venezuelana*** (R.M.Schust.) R.L.Zhu et W.Ye, *J. Syst. Evol.* 51 (4): 473, 2013 [2012] (see Ye *et al.* 2013). BASIONYM: *Cyrtolejeunea venezuelana* R.M.Schust., *Phytologia* 39 (6): 426, 1978 (see Schuster 1978b). NOTE: The combination was invalidly published twice prior to the valid publication (Zhu *et al.* 2011b: 46, Ye & Zhu 2012: 85; *non vidi*).
- Lepidolaena novae-zelandiae*** (E.A.Hodgs. et S.W.Arnell) von Konrat, L.Söderstr. et A.Hagborg, *Phytotaxa* 65: 51, 2012 (see von Konrat *et al.* 2012b). BASIONYM: *Jubula novae-zelandiae* E.A.Hodgs. et S.W.Arnell, *Trans. Roy. Soc. New Zealand, Bot.* 3 (4): 90, 1965 (see Hodgson 1965).
- Lepidozia kashyapii*** D.Singh et D.K.Singh, *Nova Hedwigia* 94 (1–2): 222, 2012 (see Singh & Singh 2012). TYPE: “INDIA. Eastern Himalaya: Sikkim, East district, Kyangnoshla, ca. 3300m, 29.04.2004, D.K.Singh & D.Singh 35188B (CAL: Holotype et Isotype)”.

- Leptoscyphus autoicus* (J.J.Engel et Gradst.) Vanderp. et Gradst., *J. Bryol.* 34 (4): 252, 2012 (see Vanderpoorten *et al.* 2012). BASIONYM: *Physotheca autoica* J.J.Engel et Gradst., *Taxon* 52 (4): 764, 2003 (see Engel & Gradstein 2003).
- Leptoscyphus beckettianus* (Steph.) R.M.Schust. ex J.J.Engel, *Nova Hedwigia* 93 (3–4): 402, 2011 (see Engel 2011). BASIONYM: *Chiloscyphus beckettianus* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (1): 59 (235), 1908 (see Stephani 1908a).
- Lophozia pacifica* Bakalin, *Bryologist* 114 (2): 302, 2011 (see Bakalin 2011). TYPE: “U.S.A.: Washington state, Whatcom Co., Austin Pass, ca. 1800 m alt., on soil, July 1998, *W. S. Hong* 25 (holotype: MO-5242474, isotype VLA)”.
- \*\*Lophozia subgen. *Obtusifolium*** (H.Buch) Bakalin, *Bryologist* 114 (2): 311, 2011, *nom. inval.* ICN Art. 41.1; basionym not valid (see Bakalin 2011). BASIONYM: *Barbilophozia* subgen. *Obtusifolium* H.Buch, *Memoranda Soc. Fauna Fl. Fennica* 17: 289, 1942, *nom. inval.* ICN Art. 39.1; no Latin description (see Buch 1942).
- Mesoptychia badensis* (Gottsche ex Rabenh.) L.Söderstr. et Váňa, *Phytotaxa* 65: 52, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia badensis* Gottsche ex Rabenh., *Hepat. Eur., Leberm.* 9–10: no. 95, 1859 (see Rabenhorst 1859).
- Mesoptychia bantriensis* (Hook.) L.Söderstr. et Váňa, *Phytotaxa* 65: 52, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia bantriensis* Hook., *Brit. Jungerm.*: pl. 41, 1813 (see Hooker 1813).
- Mesoptychia bantriensis* subsp. *wallfischii* (Ștefănuț) L.Söderstr. et Váňa, *Phytotaxa* 65: 52, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Leiocolea bantriensis* subsp. *wallfischii* Ștefănuț, *Hornwort Liverwort Romania*: 21, 2008 (see Ștefănuț 2008). NOTE: This subspecies also creates the autonym.
- Mesoptychia chichibuensis* (Inoue) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia chichibuensis* Inoue, *J. Jap. Bot.* 36 (2): 41, 1961 (see Inoue 1961).
- Mesoptychia collaris* (Nees) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia collaris* Nees, *Fl. Crypt. Erlang.*: XV, 1817 (see Martius 1817).
- Mesoptychia fitzgeraldiae* (Paton et A.R.Perry) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Leiocolea fitzgeraldiae* Paton et A.R.Perry, *J. Bryol.* 18 (3): 470, 1995 (see Paton & Perry 1995).
- Mesoptychia gillmanii* (Austin) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia gillmanii* Austin, *Bull. Torrey Bot. Club* 3: 12, 1872 (see Austin 1872).
- Mesoptychia heterocolpos* (Thed. ex Hartm.) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia heterocolpos* Thed. ex Hartm., *Handb. Skand. Fl., ed. 3*: 328, 1838 (see Hartman 1838).
- Mesoptychia heterocolpos* var. *arctica* (S.W.Arnell) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Leiocolea arctica* S.W.Arnell, *Svensk Bot. Tidskr.* 44 (2): 374, 1950 (see Arnell 1950). NOTE: This variety also creates the autonym.
- Mesoptychia heterocolpos* var. *harpanthoides* (Bryhn et Kaal.) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia harpanthoides* Bryhn et Kaal., *Rep. Second Norweg. Arctic Exped.* 11: 33, 1906 (see Bryhn 1906).
- Mesoptychia holmeniana* (Inoue et Steere) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia holmeniana* Inoue et Steere, *J. Hattori Bot. Lab.* 44: 285, 1978 “*holmenianum*” (see Steere & Inoue 1978).
- Mesoptychia igiana* (S.Hatt.) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia igiana* S.Hatt., *J. Jap. Bot.* 31 (7): 201, 1956 (see Hattori 1956).
- Mesoptychia mamatkulovii* (Duda) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia mamatkulovii* Duda, *Trans. Brit. Bryol. Soc.* 6 (1): 82, 1970 (see Duda 1970).
- Mesoptychia mayebarae* (S.Hatt.) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Cephalozia mayebarae* S.Hatt., *J. Hattori Bot. Lab.* 3: 37, 1948 (see Hattori 1948b).
- Mesoptychia morrisoncola* (Horik.) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia morrisoncola* Horik., *J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot.* 2: 150, 1934 (see Horikawa 1934).
- Mesoptychia rutheana* (Limpr.) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia rutheana* Limpr., *Jahresber. Schles. Ges. Vaterl. Cult.* 61: 207, 1884 (see Limpricht 1884).
- Mesoptychia rutheana* var. *laxa* (Schiffn. ex Burrell) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia schultzii* var. *laxa* Schiffn. ex Burrell, *J. Bot.* 49: 217, 1911 (see Burrell 1911). NOTE: This variety also creates the autonym.
- Mesoptychia subcrispa* (Herzog) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia subcrispa* Herzog, *Ann. Naturhist. Mus. Wien* 53 (1): 362, 1942 (see Herzog 1942).

- Mesoptychia turbinata** (Raddi) L.Söderstr. et Váňa, *Phytotaxa* 65: 55, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia turbinata* Raddi, *Jungermanniogr. Etrusca* [=Mem. Mat. Fis. Soc. Ital. Sci. Modena 18, 1820]: 18 (29), 1818 (see Raddi 1818).
- Mesoptychia ussuriensis** (Bakalin) L.Söderstr. et Váňa, *Phytotaxa* 65: 55, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Leiocolea ussuriensis* Bakalin, *Arctoa* 17: 103, 2008 (see Bakalin 2008).
- Metalejeunea crassitexta** (J.B.Jack et Steph.) Pócs, *Telopea* 13 (3): 456, 2011 (see Pócs *et al.* 2011). BASIONYM: *Microlejeunea crassitexta* J.B.Jack et Steph., *Bot. Centralbl.* 60 (4): 106, 1894 (see Jack & Stephani 1894).
- Metzgeria kinabaluensis** Masuzaki, *Hikobia* 16: 59, 2011 (see Masuzaki 2011). BASED ON: *Apometzgeria pubescens* var. *kinabaluensis* Kuwah., *J. Hattori Bot. Lab.* 28: 166, 1965, *nom. inval.* ICN Art. 35.1; genus not valid (see Kuwahara 1965).
- Microlejeunea bischlerae** (B.M.Thiers) B.M.Thiers, *Phytotaxa* 65: 59, 2012 (see Thiers *et al.* 2012). BASIONYM: *Lejeunea bischlerae* B.M.Thiers, *Cryptog. Bryol. Lichénol.* 18 (3): 223, 1997 (see Thiers 1997).
- Microlejeunea strasbergii** Bardat et Ah-Peng, *Bryologist* 114 (4): 669, 2011 (see Ah-Peng & Bardat 2011). TYPE: “RÉUNION, Commune de Saint-Benoit, GR du Piton des Neiges, epiphyllous on corticolous bryophytes, 29 March 2008, 21°05'17"S, 55°30'16"E, Ah-Peng, Bardat, Chuah-Petiot & Hedderson 1950P2Q2TC2, (holotype: REU; isotypes: PC)”.
- Microlejeunea udarii** P.K.Verma et S.C.Srivast., *J. Bombay Nat. Hist. Soc.* 108 (2): 122, 2011 [2012] (see Verma & Srivastava 2011). TYPE: “INDIA: Tamil Nadu: Nilgiri hills – Ootacamund, Pykara, 2,100 m, 29.iii.2001; Coll.: P.K. Verma and A. Alam, 13636 (Holotype LWU)”.
- Microlejeunea victoriensis** D.J.Carr, *Proc. Roy. Soc. Victoria* 117: 322, 2005 (see Carr 2005). “*Microlejeunia*” TYPE: “Holotype. D.J. Carr and S.G.M Carr, on the bark of trees (*Banksia serrata*) at Wilsons Promontory. Victoria. November 1954. Herb. Melb”.
- Nothoceros renzagliensis** J.C.Villarreal, L.V.Campos et Uribe, *Syst. Bot.* 37 (1): 32, 2012 (see Villarreal *et al.* 2012). TYPE: “COLOMBIA, Nariño: Pasto, La Divina Pastora, 2968 m., 19 April 2010, J. C. Villarreal *et al.* 1080 (holotype: COL)”.
- Otoscyphus** J.J.Engel, Bardat et Thouvenot, *Cryptog. Bryol.* 33 (3): 280, 2012 (see Engel *et al.* 2012). TYPE: *Otoscyphus crassicaulis* (Steph.) J.J.Engel, Bardat et Thouvenot.
- Otoscyphus crassicaulis** (Steph.) J.J.Engel, Bardat et Thouvenot, *Cryptog. Bryol.* 33 (3): 280, 2012 (see Engel *et al.* 2012). BASIONYM: *Lophocolea crassicaulis* Steph., *Sp. Hepat. (Stephani)* 6: 268, 1922 (see Stephani 1922).
- Plagioclasma udarii** A.Alam et S.C.Srivast., *Indian J. Forest.* 32: 631, 2009 (see Alam & Srivastava 2009). TYPE: “South India – Tamil Nadu – Palni Hills: Kodaikanal, ca. 900m, October 2000, S.C. Srivastava and Party, 13097/2000 (LWU)”.
- Plectocolea kurilensis** (Bakalin) Bakalin et Vilnet, *Bryologist* 115 (4): 577, 2012 (see Bakalin & Vilnet 2012). BASIONYM: *Plectocolea flagellata* var. *kurilensis* Bakalin, *Arctoa* 18: 90, 2009 (see Bakalin *et al.* 2009).
- Plectocolea ovalifolia** (Amakawa) Bakalin et Vilnet, *Bryologist* 115 (4): 579, 2012 (see Bakalin & Vilnet 2012). BASIONYM: *Plectocolea infusca* var. *ovalifolia* Amakawa, *J. Jap. Bot.* 34 (4): 115, 1959 (see Amakawa 1959).
- Pleurocladula affinis** (Lindb. ex Steph.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia affinis* Lindb. ex Steph., *Bull. Herb. Boissier (sér. 2)* 8 (4): 277 (291), 1908 (see Stephani 1908b).
- Pleurocladula catenulata** (Huebener) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Jungermannia catenulata* Huebener, *Hepaticol. Germ.*: 169, 1834 (see Hübener 1834).
- Pleurocladula connivens** (Dicks.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Jungermannia connivens* Dicks., *Fasc. Pl. Crypt. Brit.* 4: 19, 1801 (see Dickson 1801).
- Pleurocladula leucantha** (Spruce) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia leucantha* Spruce, *Cephalozia*: 68, 1882 (see Spruce 1882).
- Pleurocladula loitlesbergeri** (Schiffn.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia loitlesbergeri* Schiffn., *Österr. Bot. Z.* 62 (1): 10, 1912 (see Schiffner 1912).
- Pleurocladula lunulifolia** (Dumort.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Jungermannia lunulifolia* Dumort., *Syll. Jungerm. Europ.*: 61, 1831 “*lunulaefolia*” (see Dumortier 1831).
- Pleurocladula macrostachya** (Kaal.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia macrostachya* Kaal., *Rev. Bryol.* 29 (1): 8, 1902 (see Kaalaas 1902).
- Pleurocladula monticola** (J.D.Godfrey) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Schofieldia monticola* J.D.Godfrey, *Bryologist* 79: 315, 1976 (see Godfrey 1976).

- Pleurocladula pachycaulis* (R.M.Schust.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia pachycaulis* R.M.Schust., *Bryologist* 96 (4): 623, 1993 (see Schuster 1993).
- Pleurocladula pleniceps* (Austin) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Jungermannia pleniceps* Austin, *Proc. Acad. Nat. Sci. Philadelphia* 21: 222, 1869 (see Austin 1869).
- Porella caespitans* var. *cordifolia* (Steph.) S.Hatt. ex T.Katag. et T.Yamag., *Bryol. Res.* 10 (5): 133, 2011 (see Katagiri & Yamaguchi 2011). BASIONYM: *Madotheca cordifolia* Steph., *Sp. Hepat. (Stephani)* 4: 315, 1910 (see Stephani 1910).
- Pseudomarsupidium borneensis* (Grolle) Vána, L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 60, 2012 (see Vána *et al.* 2012f). BASIONYM: *Adelanthus borneensis* Grolle, *J. Hattori Bot. Lab.* 35: 362, 1972 (see Grolle 1972a).
- Pycnolejeunea gradsteinii* Ilk.-Borg., *Bol. Inst. Bot. (São Paulo)* 21 (1): 1, 2011 (see Ilkiu-Borges 2011). TYPE: “BRAZIL. Para: Melgacão, Caxiuana National Forest, Ferreira Penna Research Station, Tijucaquara creek, terra firme forest, on living trunk, 9-I -1999, A.L Ilkiu-Borges & C.E. Zartman 1294 (holotypus, MG)”.
- Radula* subgen. *Amentuloradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp., *Taxon* 60 (6): 1630, 2011 (see Devos *et al.* 2011). TYPE: *Radula formosa* (C.F.W.Meissn. ex Spreng.) Nees.
- Radula* subgen. *Dactyloradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp., *Taxon* 60 (6): 1630, 2011 (see Devos *et al.* 2011). TYPE: *Radula brunnea* Steph.
- Radula* subgen. *Volutoradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp., *Taxon* 60 (6): 1629, 2011 (see Devos *et al.* 2011). TYPE: *Radula voluta* Taylor ex Gottsche, Lindenb. et Nees.
- Rectolejeunea devendrae* Sushil K.Singh, *Indian J. Forest.* 34 (3): 341, 2011 (see Singh 2011). TYPE: “India, West Bengal, Howrah, Indian Botanic Garden, 03 Feb. 2006, S. K. Singh 40062 (holotype-CAL; isotype-ASSAM)”.
- Rectolejeunea truncatilobula* C.J.Bastos, *J. Bryol.* 34 (2): 144, 2012 (see Bastos 2012a). TYPE: “BRAZIL: Bahia, Eunápolis, Estação Veracruz, 16°22'S, 39°10'W, 10 June 1999, S.B. Vilas Bôas-Bastos & C. Bastos 475 (holotype ALCB; isotype SP)”.
- †*Riccardiothallus* C.Q.Guo, D.Edwards, P.C.Wu, Duckett, Hueber et C.S.Li, *Rev. Palaeobot. Palynol.* 176–177: 37, 2012 (see Guo *et al.* 2012). TYPE: *Riccardiothallus devonicus* C.Q.Guo, D.Edwards, P.C.Wu, Duckett, Hueber et C.S.Li.
- †*Riccardiothallus devonicus* C.Q.Guo, D.Edwards, P.C.Wu, Duckett, Hueber et C.S.Li, *Rev. Palaeobot. Palynol.* 176–177: 37, 2012 (see Guo *et al.* 2012). TYPE: “Holotype: Specimen CBYn9004008 (Plate I, 2). Repository: The specimen is deposited in the Museum of Plant History, Institute of Botany, Chinese Academy of Sciences. Type locality: Zhichang Village, Gumu Town, Wenshan District, Yunnan Province, China. Stratum and age: Posongchong Formation, Early Devonian (Pragian, 407–411 Ma)”.
- Riccia gangetica* Ahmad ex L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 57, 2012 (see Söderström *et al.* 2012c). BASED ON: *Riccia gangetica* Ahmad, *Curr. Sci.* 11: 433, 1942, *nom. inval.* ICN Art. 39.1; no Latin description (see Ahmad 1942).
- Riccia rhenana* var. *violacea* M.F.Boiko, *Chornom. Bot. J.* 7: 93, 2011 (see Bojko 2011). TYPE: “Ukraine. Dnipropetrovs’k region; Dnipropetrovs’k district, at village Obuchivka, at take Solone, on soil in lit sites close to water, 3 August 1961, coll. N.V.Gajevaja (Herbarium of the University in Krivoy Rog – Holotype)”. NOTE: This variety also creates the autonym.
- †*Ricciopsis ferganica* P.Moisan, S.Voigt, J.W.Schneid. et Kerp, *Rev. Palaeobot. Palynol.* 187: 33, 2012 (see Moisan *et al.* 2012). TYPE: “Holotype: FG 596/X/721 (Plate I, 1–4). Repository: Palaeontological collection of the Geologisches Institut, Technische Universität Bergakademie Freiberg, Germany. Locality: Vicinity of the village of Madygen, approximately 50 km west of Batken, southwest Kyrgyzstan, Central Asia (Fig. 1). Stratigraphic horizon: Madygen Formation. Age: Middle–Late Triassic (Ladinian–Carnian)”.
- Riella heliospora* Segarra, Puche et Sabovlj., *Syst. Bot.* 37 (2): 315, 2012 (see Segarra *et al.* 2012). TYPE: “U. S. A. California: Santa Clara Co., Palo Alto, Stanford University Campus, Lake Lagunita, 37°25'25.29"N, 122°10'36.01"W, cultivated from sediments collected from the locality on 30 Apr 2011 and dried 21 Sept 2011, J. G. Segarra-Moragues, M. Palop-Esteban, J. J. Palop-Esteban, and I. Cobos-Sillero, (holotype: 9.197 VAL-Brief.)”.
- Scapania* sect. *Americanae* Vána, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 15, 2012 (see Vána *et al.* 2012a). TYPE: *Scapania americana* Müll.Frib. NOTE: Originally placed under subgen. *Scapania*.
- Scapania* subgen. *Gracilidae* (H.Buch) Vána, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 15, 2012 (see Vána *et al.* 2012a). BASIONYM: *Scapania* sect. *Gracilidae* H.Buch, *Commentat. Biol.* 3 (1): 106, 1928 (see Buch 1928).

- Scapania sect. *Hyperboreae*** Váňa, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 16, 2012 (see Váňa *et al.* 2012a). TYPE: *Scapania hyperborea* Jørg. NOTE: Originally placed under subgen. *Scapania*.
- Scapania subgen. *Pseudomacrodiplophyllum*** Váňa, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 15, 2012 (see Váňa *et al.* 2012a). TYPE: *Scapania microdonta* (Mitt.) Müll.Frib.
- Scapania sect. *Simmonsia*** (R.M.Schust.) Váňa, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 16, 2012 (see Váňa *et al.* 2012a). BASIONYM: *Scapania* subsect. *Simmonsia* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 3: 612, 1974 (see Schuster 1974). NOTE: Originally placed under subgen. *Scapania*.
- Scapania magadanica** S.S.Choi, Bakalin et B.Y.Sun, *Bot. Pacifica* 1: 46, 2012 (see Choi *et al.* 2012). TYPE: “Holotypus: Russia, Magadan Province, Magadan city area, Marchekanskaya Mt. (N59°30'49"E 150°49'51"E), 621 m alt. Shaded rocks in stony field near *Pinus pumila* crooked forest. Leg. 15 Aug. 2011 S.S. Choi and V. Bakalin R6581 (holotypus in JNU, isotypus in VLA)”.
- Schistochilopsis sect. *Heterogemma*** (Jørg.) Potemkin, *Novosti Sist. Nizš. Rast.* 38: 364, 2005 (see Potemkin 2005). BASIONYM: *Lophozia* sect. *Heterogemma* Jørg., *Bergens Mus. Skr., n.s.* 16: 146, 1934 (see Jørgensen 1934). NOTE: This section also creates the autonym.
- Schistochilopsis sect. *Incisae*** (C.E.O.Jensen) Potemkin, *Novosti Sist. Nizš. Rast.* 38: 364, 2005 (see Potemkin 2005). BASIONYM: *Jungermannia* sect. *Incisae* C.E.O.Jensen, *Danmarks Mosser:* 116, 1915 (see Jensen 1915).
- Schistochilopsis sect. *Obtusae*** (R.M.Schust.) Potemkin, *Novosti Sist. Nizš. Rast.* 38: 364, 2005 (see Potemkin 2005). BASIONYM: *Lophozia* sect. *Obtusae* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 425, 1969 (see Schuster 1969).
- Schistochilopsis incisa var. *opacifolia*** (Culm. ex Meyl.) Bakalin, *Bryologist* 114 (2): 313, 2011 (see Bakalin 2011). BASIONYM: *Lophozia opacifolia* Culm. ex Meyl., *Beitr. Kryptogamenfl. Schweiz* 6 (4): 174, 1924 (see Meylan 1924).
- \*\***Schusterolejeunea andina** Gradst. et Ilk.-Borg. ex Gradst. et León-Yáñez, *Libro rojo pl. endém. Ecuador, ed. 2:* 871, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Gradstein & León-Yáñez 2011). ORIGINAL MATERIAL: Ecuador “Colectada en el Río Nangaritzá, 28 km al sur de Guayzimi, cerca de las cabañas Yankuam”. NOTE: This name was erroneously used for what later was published as *Cololejeunea stotleriana* Gradst., Ilk.-Borg. et Vanderp. (S.R. Gradstein, pers. comm.).
- †**Sinolejeunea** X.J.Yang et X.W.Wu, *Sci. China Earth Sci.* 54: 229, 2011 (see Yang & Wu 2011). TYPE: *Sinolejeunea yimaensis* X.J.Yang et X.W.Wu.
- †**Sinolejeunea yimaensis** X.J.Yang et X.W.Wu, *Sci. China Earth Sci.* 54: 229, 2011 (see Yang & Wu 2011). TYPE: “Locality: Yima, Henan, China. Horizon: Yima Formation, Middle Jurassic. Repository: Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, Nanjing, China, numbers PB20733”.
- Solenostoma flagellatum var. *kurilense*** (Bakalin) Váňa, *Phytotaxa* 65: 44, 2012 (see Váňa *et al.* 2012c). BASIONYM: *Plectocolea flagellata* var. *kurilensis* Bakalin, *Arctoa* 18: 90, 2009 (see Bakalin *et al.* 2009). NOTE: This variety also creates the autonym.
- Solenostoma gracillimum f. *crenulatum*** (Mitt.) Bakalin, *Polish Bot. J.* 57 (1): 141, 2012 (see Bakalin 2012). BASIONYM: *Solenostoma crenulatum* Mitt., *J. Linn. Soc., Bot.* 8: 51, 1865 (see Mitten 1865). NOTE: Bakalin specified *Jungermannia crenulata* Sm., ICN Art. 53.1; hom. illeg. [non Schmidel 1760: 20] as basionym. The correct basionym as specified above is a nomen novum for *Jungermannia crenulata* Sm. (c.f. ICN Art. 58.1). We do not think that this makes the new taxon invalid.
- Solenostoma major** (S.Hatt.) Bakalin et Vilnet, *Bryologist* 115 (4): 574, 2012 (see Bakalin & Vilnet 2012). BASIONYM: *Jungermannia monticola* f. *major* S.Hatt., *J. Hattori Bot. Lab.* 3: 8, 1948 (see Hattori 1948a).
- Solenostoma montanum** (Steph.) Váňa, *Phytotaxa* 65: 44, 2012 (see Váňa *et al.* 2012c). BASIONYM: *Nardia montana* Steph., *Hedwigia* 28 (3): 164, 1889 (see Stephani 1889).
- Solenostoma ochotense** Bakalin et Vilnet, *Bryologist* 115 (4): 575, 2012, “*ochotensis*” (see Bakalin & Vilnet 2012). TYPE: “RUSSIA: KURILS ISLANDS, Paramushir Island, 50°13'50" N, 155°34'20" E, 43 m alt., wet scoria field, leg. V. Bakalin 02 Aug. 2008, K-115-4-04 (holotype: VBGI, isotype: KPABG)”.
- Solenostoma rossicum** Bakalin et Vilnet, *Bryologist* 115 (4): 571, 2012, “*rossica*” (see Bakalin & Vilnet 2012). TYPE: “RUSSIA: KHABAROVSK TERRITORY, Okhotsk District 59°27'31"N, 143°27'49"E, 153 m alt., clayish soil in roadside, with *Nardia japonica* Steph. Leg. V. Bakalin 26 July 2008, Kh-40-4-08 (holotype: VBGI; isotype: KPABG)”.
- Solenostoma tetragonum var. *kodaikanalense*** A.Alam, D.Sharma et So.Yadav, *Phytotaxonomy* 12: 70, 2012, “*kodaikanalensis*” (see Alam *et al.* 2012). TYPE: “Typus positus in LWU 20362/2008; *Solenostoma tetragonum* var. *kodaikanalensis*, Kodaikanal, south India (Western Ghats), December 28, 2008, legit. P.K. Verma & Afroze Alam”. NOTE: This variety also creates the autonym.

- Southbyaceae** Váňa, Crand.-Stotl., Stotler et D.G.Long (fam.), *Nova Hedwigia* 95: 184, 2012 (see Váňa *et al.* 2012b).  
TYPE: *Southbya* Spruce. NOTE: This name has been used several times before, but was never validly published. See Grolle (1972b: 227) for a list of invalid occurrences.
- Sphenolobus ellipticus*** (Inoue) T.Katag. et Furuki, *Bryol. Res.* 10 (7): 206, 2012 (see Katagiri & Furuki 2012).  
BASIONYM: *Anastrophyllum ellipticum* Inoue, *Bull. Natl. Sci. Mus. Tokyo, B* 4 (1): 13, 1978 (see Inoue 1978).
- Stolonivector fiordlandiae* var. *nodulosus*** J.J.Engel, *Nova Hedwigia* 93 (3–4): 403, 2011 (see Engel 2011). TYPE: “Holotype: New Zealand, North Is., Wellington prov., Tree Trunk Gorge, W bank of Tongariro River, E border of Tongariro Natl. Park, boundary of Kaimanawa State Forest Park, ca. 700 m, Engel 21190 (F); isotype (AK)”.  
NOTE: This variety also creates the autonym.
- Taxilejeunea eckloniana*** (Lindenb.) A. Agarwal ex P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77: 209, 2007 (see Verma & Srivastava 2007) BASIONYM: *Lejeunea eckloniana* Lindenb., *Syn. Hepat.* 3: 381, 1845 (see Gottsche *et al.* 1845).
- Taxilejeunea ghatensis*** P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77 (2): 211, 2007 (see Verma & Srivastava 2007). TYPE: “India: South India - Maharashtra (Mahabaleshwar – on way to Chinaman waterfall); ca 1370 m; 13.09.2001; S.C.Srivastava *et al.* 14012 2001 (LWU)”.
- Taxilejeunea nilgiriensis*** P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77 (2): 207, 2007 (see Verma & Srivastava 2007). TYPE: “Tamil Nadu: Nilgiri hills - Kilkotagiri (Kengarai); ca 1850–1900 m. 01.04.2003; P.K. Verma *et al.* Alam; 16916/2003 (LWU)”.
- Trichocolea japonica*** T.Katag., *Bryologist* 114 (4): 744, 2011 (see Katagiri *et al.* 2011). TYPE: “Japan. Honshu: Mt. Kaikoma, Southern Japanese Alps, between Kitazawa mountain pass and Sensui mountain pass, ca. 2000 m alt., on wet boulder, 12 June 2010, Katagiri 3198 (holotype: HIRO; isotypes: NY, TNS)”.
- Tylimanthus tenellus* var. *diversifolius*** (E.A.Hodgs.) J.J.Engel, *Nova Hedwigia* 93 (3–4): 403, 2011 (see Engel 2011).  
BASIONYM: *Tylimanthus diversifolius* E.A.Hodgs., *Trans. & Proc. Roy. Soc. New Zealand* 85 (4): 575, 1958 (see Hodgson 1958). NOTE: This variety also creates the autonym.
- Vitalianthus guangxianus*** R.L.Zhu, Qiong He et Y.M.Weï, *J. Bryol.* 34 (1): 32, 2012 (see He *et al.* 2012b). TYPE: “China. Guangxi, Shangsi Co., Pinglongshan, 21°50'398'N, 107°52'345'E, on tree branches, mixed with *Brotherella* Loeske ex M.Fleish. sp., *Radula oyamensis* Steph., and *R. tjibodensis* K.I.Goebel, 513 m, 17 Feb. 2011, Yu-Mei Wei 20110217-24 (holotype: HSNU!)”.

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