

## Recent literature on lichens—245

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# Recent literature on lichens—245

James C. Lendemer<sup>1</sup>

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- Ababaikeli, G., A. Abbas, S.-Y. Guo, A. Tumier & R. Mamuti. 2016. *Diploschistes tianshanensis* sp. nov., a corticolous species from Northwestern China. *Mycotaxon* 131(3): 565–574. [New: *D. tianshanensis* A.Abbas, S.Y.Guo & Ababaikeli (from China).]
- Ahti, T., R. Pino-Bodas, A. Flakus & S. Stenroos. 2016. Additions to the global diversity of *Cladonia*. *Lichenologist* 48(5): 517–526. [New: *C. asperula* Ahti & S.Stenroos *nom. nov. pro. C. aspera* Ahti & Kashiw. *non* (Flörke) Doign., *C. camerunensis* Ahti & Flakus (from Cameroon), *C. compressa* Ahti & Flakus (from Bolivia), *C. longisquama* Ahti (from Seychelles), *C. vescula* Ahti, Kukwa & Flakus (from Bolivia). *Cladonia conspicua* treated as distinct from *C. rangiferina* based on already published nrITS sequence data. *Cladonia crinita* Bertol. recognized as conspecific with *C. evansii*, the latter will be proposed for conservation. *Cladonia perfoliata* Flörke taken up for *Cenomyce crinita* Delise *ex Pers. nom. illeg.* Lectotypified: *C. squamosa* f. *botryoides* Tuck.]
- Altermann, S., S. D. Leavitt & T. Goward. 2016. Tidying up the genus *Letharia*: Introducing *L. lupina* sp. nov. and a new circumscription for *L. columbiana*. *Lichenologist* 48(5): 423–439. [New: *L. lupina* Altermann, Leavitt & Goward (from Canada and U.S.A.). Epitypified: *Borreria columbiana* Nutt. ( $\equiv$  *L. columbiana* (Nutt.) J.W.Thoms.).]
- Alvarez, A. M., J. R. Estévez Alvarez, C. W. A. do Nascimento, I. P. González, O. D. Rizo, L. L. Carzola, R. A. Torres & J. G. Pascual. 2017. Lead isotope ratios in lichen samples evaluated by ICP-ToF-MS to assess possible atmospheric pollution sources in Havana, Cuba. *Environmental Monitoring and Assessment* 189(1): 28.
- Anderson, T. J., D. L. Wagner, B. R. Cooper, M. E. McCarty & J. M. Zaspel. 2016. HPLC-MS analysis of lichen-derived metabolites in the life stages of *Crambidia cephalica* (Grote & Robinson). *Journal of Chemical Ecology*: 10.1007/s10886-016-0799-3.
- Anonymous. 2016. Coastal versus inland form of lace lichen, *Ramalina menziesii*. *Bulletin of the California Lichen Society* 23(2): 20–21. [Compiled from Brodo et al. (2001) with additional photographs.]
- Anonymous. 2016. Lichen: It's now a love triangle. *Alaska Native Plant Society* October–November 2016: [3].
- Anshakova, V. V., A. V. Stepanova, D. M. Uvarov, A. S. Smagulova, K. N. Naumova, P. P. Vasilev & B. M. Kershengolts. 2015. Actoprotective activity of complex biologics based on lichens thalli and *Rhodiola rosea*. *Human Ecology (Russia)* 43(5): 46–51.
- Aptroot, A. 2016. Preliminary checklist of the lichens of Madagascar, with two new thelotremoid Graphidaceae and 131 new records. *Willdenowia* 46(3): 349–365. [New (both from Madagascar): *Clandestinotrema minutum* Aptroot and *Pseudoramonia psoromica* Aptroot.]
- Aptroot, A. 2016. The first European *Willeya* (Verrucariaceae) on limestone brought from China [Die erste europäische *Willeya* (Verrucariaceae) auf Kalkstein aus China]. *Herzogia* 29(2): 688–691. [New: *W. tetraspora* Aptroot (from Netherlands via China).]
- Aptroot, A. & M. E. S. Cáceres. 2016. New Trypetheliaceae from the Amazon basin in Rondônia (Brazil), the centre of diversity of the genus *Astrothelium*. *Lichenologist* 48(6): 693–712. [New (all from Brazil unless otherwise noted): *A. bivelum* Aptroot & M.Cáceres, *A. curvisporum* Aptroot & M.Cáceres, *A. decemseptatum* Aptroot & M.Cáceres, *A. disjunctum* Aptroot & M.Cáceres, *A. duplicatum* Aptroot & M.Cáceres, *A. eumultiseptatum* Aptroot & M.Cáceres, *A. eustomurale* Aptroot & M.Cáceres, *A. flavoduplex* Aptroot & M. Cáceres (from Brazil, Colombia and Guyana), *A. flavomurisporum* Aptroot & M.Cáceres, *A. flavostromatum* Aptroot & M.Cáceres, *A. flavum* Aptroot & M.Cáceres, *A. mesoduplex* Aptroot & M.Cáceres, *A. nigrum* Aptroot & M.Cáceres, *A. novemseptatum* Aptroot & M.Cáceres (from Brazil, Colombia and Guyana), *A. ochroleuroides* Aptroot & M.Cáceres (from Brazil and Guyana), *A. octoseptatum* Aptroot & M.Cáceres, *A. quatuorseptatum* Aptroot & M.Cáceres, *A. robustosporum* Aptroot & M.Cáceres, *A. solitarium* Aptroot & M.Cáceres, *A. stromatofluorescens* Aptroot & M.Cáceres, *A. supraclandestinum* Aptroot & M.Cáceres (from Australia, Brazil, Papua New Guinea and Venezuela), *A. testudineum* Aptroot & M.Cáceres (from Brazil and Venezuela), *A. xanthosuperbum* Aptroot & M.Cáceres and *Pseudopyrenula flavoreagens* Aptroot & M.Cáceres (from Brazil and Panama).]
- Aptroot, A., M. E. S. Cáceres, M. K. Johnston & R. Lücking. 2016. How diverse is the lichenized fungal family Trypetheliaceae (Ascomycota: Dothideomycetes)? A quantitative prediction of global species richness. *Lichenologist* 48(6): 983–1011.
- Aptroot, A., D. Ertz, J. A. Etayo, C. Gueidan, J. A. Mercado Diaz, F. Schumm & G. Weerakoon. 2016. Forty-six new species of Trypetheliaceae from the tropics. *Lichenologist* 48(6): 609–639. [New: *Astrothelium aenascens* Aptroot (from Papua New Guinea), *A. alboverrucoides* Aptroot (from Indonesia), *A. clypeatum* Aptroot & Gueidan (from Vietnam), *A. colombiense* Aptroot (from Colombia), *A. condoricum* Aptroot (from Ecuador), *A. corallinum* Aptroot (from Guyana), *A. dicoloratum*

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The cumulative database for this series is available in searchable form on the World Wide Web at <http://nhm2.uio.no/botanisk/lav/RLL/RLL.HTM> with full abstracts, DOIs, and links to electronically available articles when possible. Thanks to the following: Einar Timdal for his work on the RLL database, Bill Buck for checking recently published literature, Jim Bennett for sharing Scopus alerts, and the many authors who send reprints or electronic versions of their works for inclusion.

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- Aptroot* (from Venezuela), *A. ecuadoriense* Aptroot (from Ecuador), *A. flavomaculatum* Aptroot (from Ecuador, Guyana and Venezuela), *A. flavomeristosporum* Aptroot (from Ecuador and the Philippines), *A. flavostiolatum* Aptroot (from Ecuador), *A. guianense* Aptroot (from Guyana), *A. intersogalbineum* Aptroot & Weerakoon (from Singapore), *A. komposchii* Aptroot (from Venezuela), *A. laurerospaeroides* Aptroot (from Guyana), *A. lucidomedullatum* Aptroot (from Ecuador), *A. lucidostromum* Aptroot (from Guyana), *A. lucidothallinum* Aptroot (from Guyana), *A. mediocrassum* Aptroot (from Guyana), *A. megatropicum* Aptroot (from Guyana), *A. megochroleucum* Aptroot (from El Salvador), *A. neoinspersum* Aptroot (from El Salvador), *A. perspersum* Aptroot & Ertz (from Gabon), *A. philippinense* Aptroot & Schumm (from the Philippines), *A. pseudannulare* Aptroot & Etayo (from Ecuador), *A. pseudodissimilum* Aptroot (from Papua New Guinea), *A. pseudoferrugineum* Aptroot (from Indonesia), *A. pseudomegalophthalmum* Aptroot (from Colombia), *A. rimosum* Aptroot (from Colombia and Guyana), *A. sanguineoxanthum* Aptroot (from Brazil), *A. septemseptatum* Aptroot (from Guyana and Venezuela), *A. sexloculatum* Aptroot (from Guyana and Papua New Guinea), *A. sipmanii* Aptroot (from Guyana), *A. trypethelioides* Aptroot (from Venezuela), *A. ultralucens* Aptroot (from Venezuela), *A. vulcanum* Aptroot (from Guyana), *A. zebrinum* Aptroot (from Guyana), *Polymeridium rhodopruinosum* Aptroot & Mercado Diaz (from Puerto Rico), *Pseudopyrenula americana* Aptroot (from Guyana), *Pseudopyrenula guianensis* Aptroot (from French Guyana and Surinam), *Pseudopyrenula hexamera* Aptroot (from Venezuela), *Pseudopyrenula thallina* Lücking & Aptroot (from Costa Rica), *Trypethelium infraeluteriae* Aptroot & Gueidan (from Vietnam), *Viridothelium inspersum* Aptroot (from Papua New Guinea), *V. kinabaluense* Aptroot (from Malaysia) and *V. solomonense* Aptroot (from the Solomon Islands).]
- Aptroot, A. & R. Lücking. 2016. A first collaborative attempt at a global revision of Trypetheliaceae (Ascomycota: Dothideomycetes: Trypetheliales). *Lichenologist* 48(6): 607–608.
- Aptroot, A. & R. Lücking. 2016. A revisionary synopsis of the Trypetheliaceae (Ascomycota: Trypetheliales). *Lichenologist* 48(6): 763–982. [New: *Architypethelium columbianum* (Nyl.) Aptroot & Lücking (≡ *Trypethelium columbianum* Nyl.; lectotypified), *Ar. grande* (Kremp.) Aptroot & Lücking (≡ *Ascidium grande* Kremp.; lectotypified), *Astrothelium aeneum* (Eschw.) Aptroot & Lücking (≡ *Verrucaria aenea* Eschw.), *As. alboverrucum* (Makhija & Patw.) Aptroot & Lücking (≡ *Laurera alboverruca* Makhija & Patw.), *As. amazonum* (R.C.Harris) Aptroot & Lücking (≡ *Cryptothelium amazonum* R.C.Harris), *As. ambiguum* (Malme) Aptroot & Lücking (≡ *L. ambigua* Malme), *As. andamanicum* (Makhija & Patw.) Aptroot (≡ *Cr. andamanicum* Makhija & Patw.), *As. annulare* (Fée) Aptroot & Lücking (≡ *Pyrenula annularis* Fée), *As. aurantiacum* (Makhija & Patw.) Aptroot & Lücking (≡ *L. aurantiaca* Makhija & Patw.), *As. auratum* (R.C.Harris) Aptroot & Lücking (≡ *L. aurata* R.C.Harris), *As. aureomaculatum* (Vain.) Aptroot & Lücking (≡ *Pseudopyrenula aureomaculata* Vain.), *As. basilicum* (Kremp.) Aptroot & Lücking (≡ *Ve. basilica* Kremp.), *As. bicolor* (Taylor) Aptroot & Lücking (≡ *Tr. bicolor* Taylor), *As. buckii* (R.C.Harris) Aptroot & Lücking (≡ *Trypethelium buckii* R.C.Harris), *As. calosporum* (Müll.Arg.) Aptroot & Lücking (≡ *Ps. calospora* Müll.Arg.), *As. campylocartilagineum* Aptroot & Lücking (≡ *Campylothelium cartilagineum* Vain.), *As. cartilagineum* (Fée) Aptroot & Lücking (≡ *Py. cartilaginea* Fée), *As. cecidiogenum* (Aptroot & Lücking) Aptroot & Lücking (≡ *Cr. cecidiogenum* Aptroot & Lücking), *As. ceratinum* (Fée) Aptroot & Lücking (≡ *Py. ceratina* Fée), *As. chapadense* (Malme) Aptroot & Lücking (≡ *L. chapadensis* Malme), *As. chrysoglyphum* (Vain.) Aptroot & Lücking (≡ *Thelenella chrysoglypha* Vain.), *As. chrysostomum* (Kremp.) Aptroot & Lücking (≡ *Tr. chrysostomum* Kremp.; lectotypified), *As. cinereorosellum* (Kremp.) Aptroot & Lücking (≡ *Tr. cinereorosellum* Kremp.), *As. cinereum* (Müll.Arg.) Aptroot & Lücking (≡ *Heufleria praetervisa* var. *cinerea* Müll.Arg.), *As. confluens* (Müll.Arg.) Aptroot & Lücking (≡ *H. confluens* Müll.Arg.; lectotypified), *As. consimile* (Müll.Arg.) Aptroot & Lücking (≡ *H. consimilis* Müll.Arg.), *As. deforme* (Fée) Aptroot & Lücking (≡ *Tr. deforme* Fée; lectotypified); *As. defossum* (Müll.Arg.) Aptroot & Lücking (≡ *H. defossa* Müll.Arg.), *As. degenerans* (Vain.) Aptroot & Lücking (≡ *Ps. degenerans* Vain.), *As. dissimilum* (Makhija & Patw.) Aptroot & Lücking (≡ *Tr. dissimilum* Makhija & Patw.), *As. effusum* (Aptroot & Sipman) Aptroot & Lücking (≡ *L. effusa* Aptroot & Sipman), *As. endochryseum* (Vain.) Aptroot & Lücking (≡ *Ps. endochrysea* Vain.), *As. exostemmatis* (Müll.Arg.) Aptroot & Lücking (≡ *Bathelium exostemmatis* Müll.Arg.), *As. feei* (C.F.W.Meissn.) Aptroot & Lücking (≡ *Tr. feei* C.F.W.Meissn.), *As. ferrugineum* (Müll.Arg.) Aptroot & Lücking (≡ *Tr. ferrugineum* Müll.Arg.; lectotypified), *As. galligenum* (Aptroot) Aptroot & Lücking (≡ *Tr. galligenum* Aptroot), *As. gigantosporum* (Müll.Arg.) Aptroot & Lücking (≡ *Ba. gigantosporum* Müll.Arg.), *As. grossoides* Aptroot & Lücking *nom. nov. pro. Tr. grossum* Müll.Arg. *non A. grossum* Müll.Arg., *As. indicum* (Upreti & Ajay Singh) Aptroot & Lücking (≡ *L. indica* Upreti & Ajay Singh), *As. infossum* (Nyl.) Aptroot & Lücking (≡ *Ve. infossa* Nyl.), *As. infuscatulum* (Müll.Arg.) Aptroot & Lücking (≡ *Tr. infuscatulum* Müll.Arg.), *As. irregulare* (Müll.Arg.) Aptroot & Lücking (≡ *Ba. irregulare* Müll.Arg.), *As. keralense* (Upreti & Ajay Singh) Aptroot & Lücking (≡ *L. keralensis* Upreti & Ajay Singh), *As. kunzei* (Fée) Aptroot & Lücking (≡ *Tr. kunzei* Fée), *As. leioplacum* (Müll.Arg.) Aptroot & Lücking (≡ *Clathroporina leioplaca* Müll.Arg.), *As. lugescens* (Nyl.) Aptroot & Lücking (≡ *Ve. lugescens* Nyl.), *As. luridum* (Zahlbr.) Aptroot & Lücking (≡ *Tr. luridum* Zahlbr.), *As. macrocarpum* (Fée) Aptroot & Lücking (≡ *Porina macrocarpa* Fée), *As. macrosporum* (Makhija & Patw.) Aptroot & Lücking (≡ *Tr. macrosporum* Makhija & Patw.), *As. marcidum* (Fée) Aptroot & Lücking (≡ *Py. marcida* Fée), *As. megalium* (Kremp.) Aptroot & Lücking (≡ *Tr. megalium* Kremp.), *As. megalophthalmum* (Müll.Arg.) Aptroot & Lücking (≡ *Tr. megalophthalmum* Müll.Arg.), *As. megalostomum* (Vain.) Aptroot & Lücking (≡ *H. megalostoma* Vain.), *As. megaspermum* (MonTr.) Aptroot & Lücking (≡ *Tr. megaspermum* MonTr.), *As. meiophorum* (Nyl.) Aptroot & Lücking (≡ *Tr. annulare* var. *meiophorum* Nyl.; lectotypified), *As. meristosporoides* (P.M.McCarthy & Vongshew.) Aptroot & Lücking (≡ *L. meristosporoides* P.M.McCarthy & Vongshew.), *As. meristosporum* (MonTr. & Bosch) Aptroot & Lücking (≡ *Tr. meristosporum* MonTr. & Bosch), *As. neogalbineum* (R.C.Harris) Aptroot & Lücking (≡ *Tr. neogalbineum* R.C.Harris), *As. nigratum* (Müll.Arg.) Aptroot & Lücking (≡ *As. minus* var. *nigratum* Müll.Arg.), *As. nigrorufum* (Makhija & Patw.) Aptroot & Lücking (≡ *Tr. nigrorufum* Makhija & Patw.), *As. nitidiusculum* (Nyl.) Aptroot & Lücking (≡ *Ve. nitidiuscula* Nyl.), *As. octosporoides* Aptroot & Lücking *nom. nov. pro. Ba. octosporum* Zahlbr. *non As. octosporum* (Vain.) Aptroot & Lücking, *As. octosporum* (Vain.) Aptroot & Lücking (≡ *H. octospora* Vain.), *As. oligocarpum* (Müll.Arg.) Aptroot & Lücking (≡ *Tr. oligocarpum* Müll.Arg.; lectotypified), *As. olivaceofuscum* (Zenker) Aptroot & Lücking (≡ *Tr. olivaceofuscum* Zenker), *As. papillosum* (P.M.McCarthy) Aptroot & Lücking (≡ *L. papillosa*

P.M.McCarthy), *As. papulosum* (Nyl.) Aptroot & Lücking (≡ *Ve. papulosa* Nyl.), *As. peranceps* (Kremp.) Aptroot & Lücking (≡ *Tr. peranceps* Kremp.), *As. phaeothelium* (Nyl.) Aptroot & Lücking (≡ *Tr. phaeothelium* Nyl.), *As. phlyctaena* (Fée) Aptroot & Lücking (≡ *Tr. phlyctaena* Fée; lectotypified), *As. porosum* (Ach.) Aptroot & Lücking (≡ *Tr. porosum* Ach.), *As. praetervisum* (Müll.Arg.) Aptroot & Lücking (≡ *H. praetervisum* Müll.Arg.), *As. pseudoplatystomum* (Makhija & Patw.) Aptroot & Lücking (≡ *Tr. pseudoplatystomum* Makhija & Patw.), *As. pseudoariatum* (Upreti & Ajay Singh) Aptroot & Lücking (≡ *L. pseudoariata* Upreti & Ajay Singh), *As. puiggarii* (Müll.Arg.) Aptroot & Lücking (≡ *Ca. puiggarii* Müll.Arg.), *As. pulcherrimum* (Fée) Aptroot & Lücking (≡ *Tr. pulcherrimum* Fée; lectotypified), *As. pupula* (Ach.) Aptroot & Lücking (≡ *Py. pupula* Ach.), *As. purpurascens* (Müll.Arg.) Aptroot & Lücking (≡ *H. purpurascens* Müll.Arg.), *As. pustulatum* (Vain.) Aptroot & Lücking (≡ *Ps. pustulata* Vain.), *As. pyrenastrosulphureum* Aptroot & Lücking (≡ *Pyrenastrum sulphureum* Eschw.), *As. rufescens* (Müll.Arg.) Aptroot & Lücking (≡ *Tr. catervarium* var. *rufescens* Müll.Arg.; lectotypified), *As. sanguinarium* (Malme) Aptroot & Lücking (≡ *L. sanguinaria* Malme; lectotypified), *As. santessonii* (LeTr.-Gal.) Aptroot & Lücking (≡ *L. santessonii* LeTr.-Gal.), *As. saxicola* (Malme) Aptroot & Lücking (≡ *Cr. saxicola* Malme), *As. scoria* (Fée) Aptroot & Lücking (≡ *Tr. scoria* Fée), *As. scoriothelium* Aptroot & Lücking (≡ *Tr. scorioides* Leight.), *As. scorizum* (Müll.Arg.) Aptroot & Lücking (≡ *Tr. scorizum* Müll.Arg.), *As. sierraleonense* (C.W.Dodge) Aptroot & Lücking (≡ *Tremotylium sierraleonense* C.W.Dodge), *As. sikkimense* (Makhija & Patw.) Aptroot & Lücking (≡ *L. sikkimensis* Makhija & Patw.), *As. spectabile* (Aptroot & Ferraro) Aptroot & Lücking (≡ *Tr. spectabile* Aptroot & Ferraro), *As. sphaerioides* (Mont.) Aptroot & Lücking (≡ *Tr. sphaerioides* Mont.; lectotypified); *As. stramineum* (Malme) Aptroot & Lücking (≡ *Th. straminea* Malme), *As. straminicolor* (Nyl.) Aptroot & Lücking (≡ *Tr. straminicolor* Nyl.), *As. subcatervarium* (Malme) Aptroot & Lücking (≡ *Tr. subcatervarium* Malme), *As. subdiscretum* (Nyl.) Aptroot & Lücking (≡ *Tr. subdiscretum* Nyl.), *As. subdisjunctum* (Müll.Arg.) Aptroot & Lücking (≡ *Bottaria subdisjuncta* Müll.Arg.), *As. subdissocians* (Nyl. ex Vain.) Aptroot & Lücking (≡ *Ps. ochroleuca* var. *subdissocians* Nyl. ex Vain.), *As. superbum* (Fr.) Aptroot & Lücking (≡ *Tr. superbum* Fr.), *As. tenue* (Aptroot) Aptroot & Lücking (≡ *Ca. tenue* Aptroot), *As. thelotremoides* (Nyl.) Aptroot & Lücking (≡ *Ve. thelotremoides* Nyl.; lectotypified); *As. tryptelizabethans* (Nyl.) Aptroot & Lücking (≡ *Ve. tryptelizabethans* Nyl.), *As. tuberculosum* (Vain.) Aptroot & Lücking (≡ *Ps. annularis* var. *tuberculosa* Vain.), *As. ubianense* (Vain.) Aptroot & Lücking (≡ *Ps. ubianensis* Vain.), *As. variatum* (Nyl.) Aptroot & Lücking (≡ *Tr. variatum* Nyl.), *As. vezdae* (Makhija & Patw.) Aptroot & Lücking (≡ *L. vezdana* Makhija & Patw.), *Ba. austroafricanum* (Zahlbr.) Aptroot & Lücking (≡ *Tr. austroafricanum* Zahlbr.), *Ba. nigroporum* (Makhija & Patw.) Aptroot & Lücking (≡ *Tr. nigroporum* Makhija & Patw.), *Ba. pruinolucens* Aptroot & Lücking *nom. nov. pro. L. madreporiformis* var. *pruinosa* Malme *non Ba. pruinosum* Flakus, Kukwa & Aptroot, *Bogoriella alata* (Groenh. ex Aptroot) Aptroot & Lücking (≡ *Mycomicrothelia alata* Groenh. ex Aptroot), *Bog. annonacea* (Müll.Arg.) Aptroot & Lücking (≡ *Microthelia annonacea* Müll.Arg.), *Bog. apposita* (Nyl.) Aptroot & Lücking (≡ *Ve. apposita* Nyl.), *Bog. captiosa* (Kremp.) Aptroot & Lücking (≡ *Ve. captiosa* Kremp.), *Bog. collospora* (Vain.) Aptroot & Lücking (≡ *Py. collospora* Vain.), *Bog. confluens* (Müll.Arg.) Aptroot & Lücking (≡ *Microthelia confluens* Müll.Arg.), *Bog. conothelena* (Nyl.) Aptroot & Lücking

(≡ *Ve. conothelena* Nyl.), *Bog. decipiens* (Müll.Arg.) Aptroot & Lücking (≡ *Anthracothecium decipiens* Müll.Arg.), *Bog. exigua* (Müll.Arg.) Aptroot & Lücking (≡ *Mi. exigua* Müll.Arg.), *Bog. fumosula* (Zahlbr.) Aptroot & Lücking (≡ *Mi. fumosula* Zahlbr.), *Bog. hemisphaerica* (Müll.Arg.) Aptroot & Lücking (≡ *Mi. hemisphaerica* Müll.Arg.), *Bog. lateralis* (Sipman) Aptroot & Lücking (≡ *My. lateralis* Sipman), *Bog. leuckertii* (D.Hawksw. & J.C.David) Aptroot & Lücking (≡ *My. leuckertii* D.Hawksw. & J.C.David), *Bog. macrocarpa* (Komposch, Aptroot & Hafellner) Aptroot & Lücking (≡ *My. macrocarpa* Komposch, Aptroot & Hafellner), *Bog. megaspora* (Aptroot & M.Cáceres) Aptroot & Lücking (≡ *My. megaspora* Aptroot & M.Cáceres), *Bog. miculiformis* (Nyl. ex Müll.Arg.) Aptroot & Lücking (≡ *Mi. miculiformis* Nyl. ex Müll.Arg.), *Bog. minutula* (Zahlbr.) Aptroot & Lücking (≡ *Mi. minutula* Zahlbr.), *Bog. modesta* (Müll.Arg.) Aptroot & Lücking (≡ *Mi. modesta* Müll.Arg.), *Bog. nonensis* (Stirt.) Aptroot & Lücking (≡ *Ve. nonensis* Stirt.), *Bog. obovata* (Stirt.) Aptroot & Lücking (≡ *Ve. obovata* Stirt.), *Bog. pachytheca* (Sacc. & Syd.) Aptroot & Lücking (≡ *Didymosphaeria pachytheca* Sacc. & Syd.), *Bog. punctata* (Aptroot) Aptroot & Lücking (≡ *My. punctata* Aptroot), *Bog. queenslandica* (Müll.Arg.) Aptroot & Lücking (≡ *Mi. queenslandica* Müll.Arg.), *Bog. socialis* (Zahlbr.) Aptroot & Lücking (≡ *Mi. socialis* Zahlbr.), *Bog. striguloides* (Sérus. & Aptroot) Aptroot & Lücking (≡ *My. striguloides* Sérus. & Aptroot), *Bog. subfallens* (Müll.Arg.) Aptroot & Lücking (≡ *Mi. subfallens* Müll.Arg.), *Bog. thelena* (Ach.) Aptroot & Lücking (≡ *Ve. thelena* Ach.), *Bog. triangularis* (Aptroot) Aptroot & Lücking (≡ *My. triangularis* Aptroot), *Bog. xanthonica* (Komposch, Aptroot & Hafellner) Aptroot & Lücking (≡ *My. xanthonica* Komposch, Aptroot & Hafellner), *Constrictolumina esenbeckiana* (Fée) Lücking, M.P.Nelsen & Aptroot (≡ *Melanotheca esenbeckiana* Fée), *Co. leucostoma* (Müll.Arg.) Lücking, M.P.Nelsen & Aptroot (≡ *Tomasellia leucostoma* Müll.Arg.), *Co. lyrata* (R.C.Harris) Lücking, M.P.Nelsen & Aptroot (≡ *Ar. lyrata* R.C.Harris), *Co. majuscula* (Nyl.) Lücking, M.P.Nelsen & Aptroot (≡ *Ve. majuscula* Nyl.; lectotypified), *Co. malaccitula* (Nyl.) Lücking, M.P.Nelsen & Aptroot (≡ *Ve. malaccitula* Nyl.), *Co. porospora* (Vain.) Lücking, M.P.Nelsen & Aptroot (≡ *Ar. porospora* Vain.), *Dictyomeridium amylosporum* (Vain.) Aptroot, M.P.Nelsen & Lücking (≡ *Th. amylosporum* Vain.), *Dic. campylothelioides* (Aptroot & Sipman) Aptroot, M.P.Nelsen & Lücking (≡ *Polymeridium campylothelioides* Aptroot & Sipman), *Dic. immersum* (Aptroot, A.A.Menezes & M.Cáceres) Aptroot, M.P.Nelsen & Lücking (≡ *Po. immersum* Aptroot, A.A.Menezes & M.Cáceres), *Dic. isohypocrellinum* (Xavier-Leite et al.) Aptroot, M.P.Nelsen & Lücking (≡ *Po. isohypocrellinum* Xavier-Leite et al.), *Di. paraproponens* (Aptroot, et al.) Aptroot, M.P.Nelsen & Lücking (≡ *Po. paraproponens* Aptroot et al.), *Distothelia rubrostoma* (Aptroot) Aptroot & Lücking (≡ *My. rubrostoma* Aptroot), *Phyllobathelium chlorogastricum* (Müll.Arg.) Aptroot & Lücking (≡ *H. chlorogastrica* Müll.Arg.), *Ps. cubana* (Müll.Arg.) Aptroot & Lücking (≡ *Plagiotrema cubanum* Müll.Arg.; lectotypified), *Viridothelium cinereoglaucescens* (Vain.) Lücking, M.P.Nelsen & Aptroot (≡ *Ps. cinereoglaucescens* Vain.), *Vi. indutum* (Stirt.) Aptroot & Lücking (≡ *Tr. indutum* Stirt.), *Vi. megaspermum* (Makhija & Patw.) Aptroot & Lücking (≡ *Pleurotrema megaspermum* Makhija & Patw.). Additional names newly lectotypified: *Arthopyrenia planior* Müll.Arg., *Ar. planorbiculata* Müll.Arg., *Ar. subimitans* Müll.Arg., *Astrothelium acroleucum* Malme, *As. conicum* var. *pallidum* Müll.Arg., *As. fallax* Müll.Arg., *As. ochrothelioides* Vain., *Clathroporina irregularis* Müll.Arg., *Didymella gigantea* Räsänen, *Parathelium superans* Müll.Arg.,

- Pseudopyrenula flavicans* Müll.Arg., *Ps. porinoides* Müll.Arg., *Trypethelium eluteriae* var. *endochlorum* Müll.Arg., *Tr. eluteriae* var. *polystomum* Malme, *Tr. eluteriae* var. *truncatum* Müll.Arg., *Tr. ferrugineum* var. *inornatum* Müll.Arg., *Tr. foveolatum* Müll.Arg., *Tr. insigne* Müll.Arg., *Tr. leprosum* Müll.Arg., *Tr. leucostomum* Kremp., *Tr. madreporiforme* Eschw., *Tr. mastoidium* var. *macerum* Müll.Arg., *Tr. ochroleucum* var. *depauperatum* Müll.Arg., *Tr. ochroleucum* var. *effusum* Müll.Arg., *Tr. platystomum* var. *denudatum* Malme, *Tr. polychroum* Müll.Arg., *Tr. quassicola* Fée, *Tr. subalbans* Nyl., *Tr. uberinoides* Nyl., *Tr. virginicum* Müll.Arg., *Verrucaria catapasta* Nyl., *Ve. diffluens* Nyl., *Ve. heterochroa* Mont, *Ve. subcinerea* Nyl., *Ve. suffusa* Knight, *Ve. tristis* Hepp.]
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[New: *C. accipiter* Moncada, Madriñán & Lücking (from Colombia, Venezuela), *C. applanata* Moncada, Soto-Medina & Lücking (from Colombia, Ecuador), *C. arachnodavidea* Moncada, Dal Forno & Lücking (from Colombia), *C. arborescens* Dal Forno, Chaves & Lücking (from Costa Rica), *C. arcabucana* Moncada, C.Rodríguez & Lücking (from Colombia), *C. aturucoa* Lücking, Moncada & C.Vargas (from Colombia), *C. auricleslia* Moncada, Yáñez-Ayabaca & Lücking (from Ecuador), *C. barbifera* Moncada, Patiño & Lücking (from Colombia), *C. boleslia* Lücking, E.Morales & Dal Forno (from Bolivia), *C. caliginosa* Holgado, Rivas Plata & Perlmutter (from Peru), *C. campestris* Dal Forno, Eliasaro & Spielmann (from Brazil), *C. canari* Nugra, Dal Forno & Lücking (from Ecuador), *C. caraana* Lücking, Martins & Lucheta (from Brazil), *C. casolana* Moncada, R.-E.Pérez & Lücking (from Mexico), *C. caucensis* Moncada, M.Gut. & Lücking (from Colombia), *C. celestino* Moncada, Cabrera-Amaya & Lücking (from Colombia), *C. comaltepeca* Moncada, R.-E.Pérez & Herrera-Camp. (from Mexico), *C. corani* Lücking, E.Morales & Dal Forno (from Bolivia), *C. corelleslia* Moncada, A. Suárez-Corredor & Lücking (from Colombia), *C. crispoleslia* Moncada, J.Molina & Lücking (from Colombia), *C. cuzcoensis* Holgado, Rivas Plata & Perlmutter (from Peru), *C. dalehana* Moncada, Madriñán & Lücking (from Colombia), *C. davidbogotana* Lücking, Moncada & Coca (from Colombia), *C. davicrinita* Moncada, Madriñán & Lücking (from Colombia), *C. davidia* Moncada, L.Vargas & Lücking (from Colombia, Ecuador), *C. dewisanti* Moncada, A.Suárez-Corredor & Lücking (from Colombia, Venezuela), *C. dulcis* Moncada, R.-E.Pérez & Lücking (from Mexico), *C. elephas* Lücking, Moncada & L.Vargas (from Colombia, Ecuador), *C. fuscodavidiana* Lücking, Moncada & L.Vargas (from Colombia), *C. garagoa* Simijaca, Moncada & Lücking (from Colombia), *C. gigantea* Lücking, Moncada & Coca (from Colombia), *C. gomeziana* Dal Forno, Chaves & Lücking (from Costa Rica), *C. guajalitensis* Lücking, Robayo & Dal Forno (from Ecuador), *C. hafecesweorthensis* Moncada, Lücking & R.Peláez (from Colombia), *C. haledana* Dal Forno, Chaves & Lücking (from Costa Rica), *C. hawksworthiana* Dal Forno, P.Nelson & Lücking (from Costa Rica, Colombia, Chile), *C. hochesuordensis* Lücking, E.Morales & Dal Forno (from Bolivia), *C. hymenocarpa* Lücking, Chaves & Lawrey (from Costa Rica), *C. imi* Lücking, Chaves & Lawrey (from Costa Rica), *C. itabaiana* Dal Forno, Aptroot & M.Cáceres (from Brazil), *C. leslactuca* Lücking, Moncada & R.Peláez (from Colombia), *C. maxima* Wilk, Dal Forno & Lücking (from Bolivia), *C. minutula* Lücking, Moncada & Yáñez-Ayabaca (from Ecuador), *C. palaeotropica* Weerakoon, Aptroot & Lücking (from Sri Lanka), *C. palustris* Dal Forno, Chaves & Lücking (from Costa Rica), *C. parabovei* Dal Forno, Kukwa & Lücking (from Bolivia), *C. paraciferrii* Lücking, Moncada & J.E.Hern. (from Colombia, Venezuela), *C. paraminor* Dal Forno, Chaves & Lücking (from Costa Rica), *C. pastorum* Moncada, Patiño & Lücking (from Colombia), *C. pichinchensis* Paredes, Jonitz & Dal Forno (from Ecuador), *C. pikynasa* J.-M.Torres, Moncada & Lücking (from Ecuador), *C. pseudobovei* Wilk, Dal Forno & Lücking (from Bolivia), *C. pseudocorani* Lücking, E.Morales & Dal Forno (from Bolivia), *C. putumayensis* L.J.Arias, Moncada & Lücking (from Colombia), *C. quillacinga* Moncada, F.Ortega & Lücking (from Colombia), *C. rothesiorum* Moncada, Madriñán & Lücking (from Colombia), *C. rubrosanguinea* Nugra, Moncada & Lücking (from Ecuador), *C. santacruzensis* Dal Forno, Bungartz & Yáñez-Ayabaca (from Ecuador), *C. schizophylloides* Moncada, C.Rodríguez & Lücking (from Colombia), *C. smaragdina* Lücking, Rivas Plata & Chaves (from Costa Rica), *C. soledavidia* Dal Forno, Marcelli & Lücking (from Brazil, Costa Rica), *C. subdavicrinita* Moncada, J.Molina & Lücking (from Colombia), *C. suturifera* Nugra, Besal & Lücking (from Ecuador), *C. terrestris* Dal Forno, Chaves & Lücking (from Costa Rica), *C. terricoleslia* Wilk, Dal Forno & Lücking (from Bolivia), *C. udebeceana* Moncada, R.Peláez & Lücking (from Colombia), *C. urceolata* Moncada, Coca & Lücking (from Colombia), *C. verjonensis* Lücking, Moncada & Dal Forno (from Colombia), *C. viliewoa* Lücking, Chaves & Soto-Medina (from Costa Rica, Colombia, Ecuador), *C. yukiboa* Mercado-Díaz, Moncada & Lücking (from Puerto Rico).]
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- Patw. & C.R.Kulk.), *O. parvidisca* (Sipman) Lücking (≡ *M. parvidiscum* Sipman), *O. pertusarioides* (Nagarkar, Sethy & Patw.) Lücking (≡ *L. pertusarioides* Nagarkar, Sethy & Patw.), *O. squamuloides* (Sipman) Lücking (≡ *M. squamuloides* Sipman), *Schizotrema flavolucens* (Sipman) Lücking (≡ *M. flavolucens* Sipman), *T. configuratum* (Hale) Mangold (≡ *O. configurata* Hale).]
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- Lücking, R., M. P. Nelsen, A. Aptroot, R. B. Klee, P. A. Bawingan, M. N. Benatti, N. Q. Binh, F. Bungartz, M. E. S. Cáceres, L. S. Canêz, J.-L. Chaves, D. Ertz, R. E. Esquivel, L. I. Ferraro, A. Grijalva, C. Gueidan, J. E. Hernández, A. Knight, H. T. Lumbsch, M. P. Marcelli, J. A. Mercado-Diaz, B. Moncada, E. A. Morales, K. Naksuwankul, T. Orozco, S. Parnmen, E. Rivas Plata, N. Salazar-Allen, A. A. Spielmann & N. Ventura. 2016. A phylogenetic framework for reassessing generic concepts and species delimitation in the lichenized family Trypetheliaceae (Ascomycota: Dothideomycetes). *Lichenologist* 48(6): 739–762. [New: *Constrictolumina* Lücking, M.P.Nelsen & Aptroot (type *C. cinchonae*), *C. cinchonae* (Ach.) Lücking, M.P.Nelsen (≡ *Verrucaria cinchonae* Ach.), *C. planorbis* (Ach.) Lücking, M.P.Nelsen & Aptroot (≡ *Ve. planorbis* Ach.), *Dictyomeridium* Aptroot, M.P.Nelsen & Lücking (type *D. proponens*), *D. proponens* (Nyl.) Aptroot, M.P.Nelsen & Lücking (≡ *Ve. proponens* Nyl.), *Nigrovothelium* Lücking, M.P.Nelsen & Aptroot (type *Ni. tropicum*), *Ni. tropicum* (Ach.) Lücking, M.P.Nelsen & Aptroot (≡ *Ve. tropica* Ach.; lectotypified), *Novomicrothelia* Aptroot, M.P.Nelsen & Lücking (type *No. oleosa*), *No. oleosa* (Aptroot) Aptroot, M.P.Nelsen & Lücking (≡ *Mycomicrothelia oleosa* Aptroot), *Viridothelium* Lücking, M.P.Nelsen & Aptroot (type *V. virens*), *Vi. virens* (Tuck.) Lücking, M.P.Nelsen & Aptroot (≡ *Trypethelium virens* Tuck.).]
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- Ps. rhizophorae* (Kalb) Parmen, Lücking & Lumbsch (≡ *C. rhizophorae* Hale), *Ps. rivias-platae* Kalb) Parmen, Lücking & Lumbsch (≡ *C. rivias-platae* Kalb), *Ps. sipmanii* Frisch & Kalb) Parmen, Lücking & Lumbsch (≡ *C. sipmanii* Frisch & Kalb), *Ps. subpatens* (Hale) Parmen, Lücking & Lumbsch (≡ *Th. subpatens* Hale), *Pseudotepeliopsis* Parmen, Lücking & Lumbsch (type *P. laceratula*), *P. aggregata* (Hale) Parmen, Lücking & Lumbsch [epithet listed as “aggregate”] (≡ *Phaeotrema aggregatum* Hale), *P. laceratula* (Müll.Arg.) Parmen, Lücking & Lumbsch (≡ *Th. laceratulum* Müll.Arg.), *P. scabiocarpa* (Rivas Plata & Lücking) Parmen, Lücking & Lumbsch *nom. inval.* [lacking full and direct citation of basionym, and basionym listed as “in press.”] (≡ *C. scabiocarpa* Rivas Plata & Lücking), *P. scabiomarginata* (Hale) Parmen, Lücking & Lumbsch (≡ *Th. scabiomarginatum* Hale).]
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- A.Nordin (≡ *A. contorta* subsp. *hoffmanniana*), *C. reagens* (Zahlbr.) A.Nordin (≡ *L. calcarea* f. *reagens*), *C. serenensis* (Cl.Roux & M.Bertrand) A.Nordin (≡ *A. serenensis* Cl.Roux & M.Bertrand.)
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