Recent literature on lichens—263

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Aptroot, A., M. F. Souza & A. A. Spielmann. 2020. New lichen species from the Pantanal in Mato Grosso do Sul, Brazil. Archive for Lichenology 20: 1–7. [New (all from Brazil): *Physcia microphylla* Aptroot & M.F. Souza, *Physciella neotropica* M.F. Souza & Aptroot, *Strigula pyrenuloides* Aptroot, *Thelopsis spinulosa* Aptroot.]

Aptroot, A. & A. A. Spielmann. 2020. Four new *Astrothelium* species and a *Mazaediothecium* from Várzea areas in Mato Grosso do Sul, Brazil. Archive for Lichenology 21: 1–17. [New (all from Brazil): *A. fernandae* Aptroot, *A. pseudodermatodes* Aptroot, *A. septoconicum* Aptroot, *A. xanthopseudocyphellatum* Aptroot, *Mazaediothecium serendipiticum* Aptroot.]

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cryptogamic records. 6. Novitates Systematicae Plantarum non Vascularium [Novosti sistematiki nizshikh rastenii] 54(2): 537–557. [Records of: *Buellia epigaea*, *Cladonia labradorica*, *C. norvegica*, *C. oxneri*, *Parmelia fraudans*, *Peltigera extenuata*.]

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Elvebakk, A., S. G. Hong, C. H. Park & T. Rämä. 2020. *Psoroma capense* and *P. esterhuyseniae* (Pannariaceae), two new alpine species from South Africa. The Lichenologist 52(5): 345–352. [New (from South Africa): *Psoroma capense* Elvebakk, S.G. Hong & Rämä, *P. esterhuyseniae* Elvebakk.]

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Brazilian Journal of Botany 37: 597–600. [New: *P. marcellii* Gerlach & Eliasaro (from Brazil).]

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Patw. & C.R. Kulk., and *Parmotrema tinctorum* (Despr. ex Nyl.) Hale. American Journal of Medical and Natural Sciences 1(1): 25–29.

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Lagrandie, J. 2016. Une nouvelle espèce de lichen pour la France. E.R.I.C.A., Revue des botanistes du Massif amoricain et des ses marges 30: 6. [In French.]

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Lumbsch, H. T., R. Guderley & J. A. Elix. 1996. A revision of some species in *Lecanora* sensu stricto with a dark hypothecium (Lecanorales, Ascomycotina). The Bryologist 99(3): 269–291. [New: *L. atroanima* Lumbsch (from Puerto Rico), *L. hypocrocinoides* Lumbsch (from Australia), *L. kalbiana* Lumbsch (from Brazil). Lectotypified: *L. aemulans* Vain., *L. aeruginosa* Nyl., *L. concillianda* Vain. *L. egranulosa* Nyl., *L. flavoviridis* Kremp., *L. hypocrocea* Vain., *L. hypocrocina* Nyl., *L. livescens* Kremp., *L. mesoxantha* Nyl., *L. mesoxanthoides* Vain., *L. pallidostraminea* Vain., *L. stramineopallens* Vain.]

Magnanon, S. 2015. CoLiBry, un programme d'amélioration des connaissances sur les charophytes, les lichens et les bryophytes de Basse-Normandie, Bretagne et Pays de la Loire. E.R.I.C.A., Revue des botanistes du Massif amoricain et des ses marges 28: 11–12. [In French.]

Malíček, J., Z. Palice, J. Vondrák & T. Tønsberg. 2020. *Japewia aliphatica* (Lecanoraceae, lichenized Ascomycota), a new acidophilous, sorediate-blastidiate lichen from Europe. Phytotaxa 461(1): 21–30. [New: *J. aliphatica* Malíček, Palice, Tønsberg & Vondrák (from Austria, Czech Republic, Germany, Norway, Russia, Slovakia & Ukraine).]

Marcano, V. & L. Castillo. 2020. Diversity of lichens in the paramos of El Batallón and La Negra, General Juan Pablo Peñaloza National Park. Anales del Jardín Botánico de Madrid 77(1): e096. [New: *Bunodophoron portachuelense* V. Marcano & L. Castillo nom. inval. (from Venezuela). In Spanish with English abstract.]

McCune, B. 2020. *Epigloea diversispora*, a new possibly lichenized ascomycete from Oregon, with a key to the world species. The Bryologist 123(3): 534–540. [New: *E. diversispora* McCune (from U.S.A.).]

Mishra, G. K., D. K. Upreti, S. Nayaka, A. Thell, I. Kärnefelt, L. Lőkös, J.-S. Hur, G. P. Sinha & S. Y. Kondratyuk. 2020. Current taxonomy of the lichen family Teloschistaceae from India with descriptions of new species. Acta Botanica Hungarica 62(3-4): 309–391. [New (all new species from India): *Caloplaca rajasthanica* S.Y. Kondr., Upreti & G.P. Sinha, *Fulgogasparrea awasthii* (Y. Joshi & Upreti) S.Y. Kondr., Upreti & A. Thell (≡ *Caloplaca awasthii* Y. Joshi & Upreti), *Huriella upretiana* S.Y. Kondr., G.K. Mishra, Nayaka & A. Thell, *Megaspora subpoliotera* (Y. Joshi & Upreti) S.Y. Kondr., Upreti & A. Thell (≡ *Caloplaca subpoliotera* Y. Joshi & Upreti), *Neobrownliella cinnabarina* (Ach.) S.Y. Kondr., Upreti & A. Thell (≡ *Lecanora cinnabarina* Ach.), *N. holochracea* (Nyl.) S.Y. Kondr., Upreti & A. Thell (≡ *Lecanora holochracea* Nyl.), *Olegblumia demissa* (Flot.) S.Y. Kondr., L. Lőkös, J. Kim, A.S. Kondra-tiuk, S.-O. Oh & J.-S. Hur (≡ *Placodium demissum* Flot. ex Körb.), *Opeltia flavorubescens* (Huds.) S.Y. Kondr. & J.-S. Hur (≡ *Lichen flavorubescens* Huds.), *Oxneriopsis bassiae* (Ach.) S.Y. Kondr., Upreti & J.-S. Hur (≡ *Lepraria bassiae* Willd. ex Ach.), *Squamulea uttarkashiana* S.Y. Kondr., Upreti, Nayaka & A. Thell, *Upretia*

hueana (B.de Lesd.) S.Y. Kondr. & Upreti (≡ *Caloplaca hueana* B.de Lesd.).]

Mishra, S., D. K. Upreti & A. K. Srivastava. 2016. New records of lichens from foothills of Kumaun Himalayas to the lichen flora of Uttarakhand, India. Tropical Plant Research 3(2): 434–439.

Mohabe, S., D. B. Anjali, A. M. Reddy, G. Pandhava & S. Nayaka. 2017. New distributional records in lichen family Graphidaceae for Andhra Pradesh, India. Tropical Plant Research 4(3): 383–390.

Molins, A., S. Chiva, A. Calatayud, F. Marco, F. García-Breijo, J. Reig-Armiñana, P. Carrasco & P. Moya. 2020. Multidisciplinary approach to describe *Trebouxia* diversity within lichenized fungi *Buellia zoharyi* from the Canary Islands. Symbiosis 82(1-2): 19–34.

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Muggia, L. 2020. Introduction to the Festschrift dedicated to Professor Eva Barreno. Symbiosis 82(1-2): 1–2.

Muggia, L., P. Zalar, A. Azua-Bustos, C. González-Silva, M. Grube & N. Gunde-Cimerman. 2020. The beauty and the yeast: Can the microalgae *Dunaliella* form a borderline lichen with *Hortaea werneckii*? Symbiosis 82(1-2): 123–131.

Myllys, L., S. Stenroos & T. Ahti. 2020. Orvo Vitikainen, an 80th birthday tribute. Graphis Scripta 32(4): 63–65.

Nag, P., R. K. Gupta & D. K. Upreti. 2019. Lichenized fungi *Stereocaulon foliolosum* Nyl. (Stereocaulaceae, Ascomycota), indicator of ambient air metal deposition in a temperate habitat of Kumaun, central Himalaya, India. Tropical Plant Research 6(2): 199–205.

Nelsen, M. P. & H. T. Lumbsch. 2020. A data-driven evaluation of lichen climate change indicators in Central Europe. Biodiversity and Conservation: 10.1007/s10531–020–02057–8.

Neufeld, H. S. & F. S. Perkins. 2020. Host tree species mediate corticolous lichen responses to elevated CO2 and O3 after 10 years exposure in the Aspen-FACE system. Science of The Total Environment: 142875.

Nimis, P. L. & S. Martellos. 2020. Towards a digital key to the lichens of Italy. Symbiosis 82(1-2): 149–155.

Pandava, G., S. Mohabe, D. B. Anajli & A. M. Reddy. 2020. Assessment of the lichen diversity from Koundinya wildlife sanctuary, Andhra Pradesh, India. Tropical Plant Research 7(2): 427–439.

Perlmutter, G. B. & E. Rivas Plata. 2020. *Lecanora* (Aspicilia) *albopruinosa* Looman is a synonym of *Circinaria contorta*. Opuscula Philolichenum 19: 168–171.

Perlmutter, G. B., E. Rivas Plata, S. LaGreca, A. Aptroot, R. Lücking, A. Tehler & D. Ertz. 2020. *Biatora akompsa* is revealed as a disjunct North American species of *Pentagenella* (Opegraphaceae) through molecular phylogenetic analysis and phenotype-based binning. The Bryologist 123(3): 502–516. [New: *P. akompsa* (Tuck.) Perlmutter, LaGreca, Ertz & Tehler (≡ *B. akompsa* Tuck.).]

Pichler, G., W. Stöggl, D. Trippel, F. C. Carniel, L. Muggia, C. G. Ametrano, T. Çimen, A. Holzinger, M. Tretiach & I. Kranner. 2020. Phytohormone release by three isolated lichen mycobionts and the effects of indole-3-acetic acid on their compatible photobionts. Symbiosis 82(1-2): 95–108.

Pino-Bodas, R. & S. Stenroos. 2020. Global biodiversity patterns of the photobionts associated with the genus *Cladonia* (Lecanorales, Ascomycota). Microbial Ecology: 10.1007/s00248–020–01633–3.

Printzen, C. 2020. Hessische Belege des Flechtenherbars Gottfried Ludwig Theobald kommen nach Frankfurt. Herzogiella 7: 42–44. [In German.]

Pykälä, J., A. Kantelinen & L. Myllys. 2019. Taxonomy of the *Verrucaria kalenskyi* – *V. xyloxena* species complex in Finland. Nova Hedwigia 109(3): 489–511. [New: New (all from Finland unless noted): *V. inverecundula* Pykälä & Myllys, *V. juankoskiensis* Pykälä & Myllys (from Finland & Norway), *V. kiskoensis* Pykälä & Myllys, V. modica Pykälä & Myllys, *V. raesaenenii* Pykälä & Myllys (from Finland & Norway), *V. tallbackaensis* Pykälä, Launis & Myllys. Invalid lectotypification: *V. danica* Servit & M.S. Christ. (no registration number).]

Pykälä, J., A. Kantelinen & L. Myllys. 2020. Taxonomy of *Verrucaria* species characterised by large spores, perithecia leaving pits in the rock and a pale thin thallus in Finland. MycoKeys 72: 43–92. [New (from Finland): *V. bifurcata* Pykälä, Kantelinen & Myllys, *V. cavernarum* Pykälä & Myllys, *V. difficilis* Pykälä & Myllys, *V. fuscozonata* Pykälä, Kantelinen & Myllys, *V. kuusamoensis* Pykälä, Kantelinen & Myllys, *V. subdevergens* Pykälä & Myllys, *V. vacillans* Pykälä & Myllys. Invalidly lectotypified (no registration number): *V. subjunctiva* Nyl.]

Resl, P. & M. Schultz. 2017. Taxonomische und nomenklatorische Neuerungen Flechten - Zweite Folge. Herzogiella 4: 25–31. [In German.]

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Rivas Plata, E., K. Kalb & A. Frisch. 2010. *Wirthiotrema*: A new genus for the *Thelotrema glaucopallens* group (Ascomycota: Ostropales: thelotremoid Graphidaceae). The Lichenologist 42(2): 197–202. [New: *Wirthiotrema* Rivas Plata, Kalb, Frisch & Lumbsch (type: *W. glaucopallens*), *W. glaucopallens* (Nyl.) Rivas Plata & Kalb (≡ *Thelotrema glaucopallens* Nyl.), *W. santessonii* (Hale) Rivas Plata & Frisch (≡ *T. santessonii* Hale), *W. trypaneoides* (Nyl.) Rivas Plata & Lücking (≡ *T. trypaneoides* Nyl.). Includes key.]

Roux, C., P. Pinault, D. Ertz & A. Gardinnet. 2020. Deux *Capronia* s. l. (Ascomycota, Chaetothyriales) lichénicoles sur *Cladonia*. Bulletin de la Société Linnéenne de Provence 71: 75–86. [In French. New: *Capronia diederichiana* P. Pinault & Cl. Roux (on *Cladonia phyllophora* and *C.* sp. from France).]

Roziaty, E., Sutarno, S. Suntoro & Sugiyarto. 2020. Ecological indices on lichen biodiversity in three main different areas (the cities, countrysides and the forests) of Jogjakarta and Surakarta, Central Java, Indonesia. Eurasian Journal of Biosciences 14(2): 4543–4550.

Sancho, L., A. de los Ríos, A. Pintado, C. Colesie, J. Raggio, C. Ascaso & A. Green. 2020. *Himantormia lugubris*, an Antarctic endemic on the edge of the lichen symbiosis. Symbiosis 82(1-2): 49–58.

Schirmacher, U. & M. Henze. 2016. Untersuchungen von Flechten-Inhaltsstoffen aus *Cetraria*-Herbarmaterial und eines Isländisch-Moos-Tees aus Island. Herzogiella 3: 34–39In G. [In German.]

Schößler, W. 2017. Samtiger Flechtennabling (Lichenomphalina velutina) – ein Grenzgänger? Herzogiella 4: 45–48. [In German.]

Schultz, M. 2018. Taxonomische und nomenklatorische Neuerungen Flechten, Dritte Folge. Herzogiella 5: 27–31. [In German.]

Schultz, M. & P. Resl. 2016. Taxonomische und nomenklatorische Neuerungen Flechten - Erste Folge. Herzogiella 3: 21–28. [In German.]

Schultz, M. & P. Resl. 2020. Taxonomische und nomenklatorische Neuerungen – Flechten, Fünfte Folge. Herzogiella 7: 27–29. [In German.]

Sierra, R. & E. A. Molinari-Novoa. 2020. *Neoechinodiscus*, a new name for *Echinodiscus* Etayo & Diederich (lichenicolous Helotiales). Opuscula Philolichenum 19: 172–173. [New: *Neoechinodiscus* Molinari & R. Sierra nom. nov. pro. *Echinodiscus* Etayo & Diederich (type *N. lesdainii*), *N. lesdainii* (Vouaux) R. Sierra & Molinari (≡ *Phacopsis lesdainii* Vouaux), *N. kozhevnikovii* (Zhurb.) Molinari & R. Sierra (≡ *E. kozhevnikovii* Zhurb.).]

Sipman, H. J. M. 2019. *Caloplaca glomerata* (Variospora glomerata) war in Deutschland! Herzogiella 6: 52–54. [In German.]

Sipman, H. J. M. & H. U. Kison. 2017. *Pertusaria lactescens* auch in Deutschland. Herzogiella 4: 49–52. [In German.]

Smith, H. B., F. Dal Grande, L. Muggia, R. Keuler, P. K. Divakar, F. Grewe, I. Schmitt, H. T. Lumbsch & S. D. Leavitt. 2020. Metagenomic data reveal diverse fungal and algal communities associated with the lichen symbiosis. Symbiosis 82(1-2): 133–147.

Smith, R. J., S. Jovan, D. Stanton & S. Will-Wolf. 2020. Epiphytic macrolichen communities indicate climate and air quality in the U.S. Midwest. The Bryologist 123(3): 517–533.

Sparrius, L. B. & J. Willemsen. 2020. *Teloschistes chrysophthalmus* (oranje wimpermos) na anderhalve eeuw weer even terug in Nederland. Buxbaumiella 118: 14–17.

Stam, Å., X. He, U. Kaasalainen, M. Toivonen, J. Enroth, M. Räsänen & J. Rikkinen. 2020. Epiphyte colonisation of fog nets in montane forests of the Taita Hills, Kenya. Annales Botanici Fennici 57(4-6): 227–238.

Stauth, S. & C. Zambettakis. 2010. Mise en place de l'observatoire bas-normand des bryophytes et lichens. E.R.I.C.A., Revue des botanistes du Massif amoricain et des ses marges 23: 109–110. [In French.]

Stepanchikova, I. S., A. A. Rodionova, D. E. Himelbrant & J. Motiejūnaitė. 2020. The lichens of Maly Island (Peninsaari) in the Gulf of Finland (Leningrad Region). Novitates Systematicae Plantarum non Vascularium [Novosti sistematiki nizshikh rastenii] 54(2): 453–466.

Suija, A. & I. Jüriado. 2020. Records of new and interesting lichenicolous fungi from Finland and Norway. Graphis Scripta 32(5): 86–100.

Sundin, R. 1999. [Dissertation] Phylogenetic and taxonomic studies within *Arthonia* Ach. (Ascomycetes, Arthoniales). Stockholm University, Stockholm. 162 pp., not continuously paginated pages.

Svensson, M., R. Vicente & M. Westberg. 2020. Additions to the lichen flora of Fennoscandia IV. Graphis Scripta 32(3): 52–62.

Szczepańska, K., J. Urbaniak & L. Śliwa. 2020. Taxonomic recognition of some species-level lineages circumscribed in nominal *Rhizoplaca subdiscrepans* s. lat. (Lecanoraceae, Ascomycota). PeerJ 8(5): e9555. [New: *R. pseudomellea* (B.D. Ryan) Szczepańska, Rodriguez-Flakus & Śliwa (≡ *Lecanora pseudomellea* B.D. Ryan).]

Timdal, E., M. Westberg, R. Haugan, T. H. Hofton, H. Holien, J. D. M. Speed, T. Tønsberg & M. Bendiksby. 2020. Integrative taxonomy reveals a new species, *Nephroma orvoi*, in the *N. parile* species complex (lichenized Ascomycota). Graphis Scripta 32(4): 70–85. [New: *N. orvoi* Timdal, M. Westb., Haugan, Hofton, Holien, Speed, Tønsberg & Bendiksby (from Canada, Finland, Norway, Sweden, U.S.A.).]

Torres, J. M., A. A. Spielmann, A. Aptroot, K. F. Cardoso & N. K. Honda. 2020. The lichen genus *Schistophoron* Stirt. (Ascomycetes, Graphidaceae) in Brazil with a world key to the species. Cryptogamie, Mycologie 41(13): 211–217. [Includes key.]

Tucker, S., S. Ferrenberg & S. C. Reed. 2020. Modest residual effects of short-term warming, altered hydration, and biocrust successional state on dryland coil heterotrophic carbon and nitrogen cycling. Frontiers in Ecology and Evolution 8: 467157.

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Urayama, S., N. Doi, F. Kondo, Y. Chiba, Y. Takaki, M. Hirau, Y. Minegishi, D. Hagiwara & T. Nunoura. 2020. Diverged and active partitiviruses in lichen. Frontiers in Microbiology 11: 561344.

Vallese, C., J. Nascimbene, P. Giordani, R. Benesperi & G. Casazza. 2020. Modelling range dynamics of terricolous lichens of the genus *Peltigera* in the Alps under a climate change scenario. Fungal Ecology 49: 101014.

van den Boom, P. P. G. 2020. Further interesting lichens and lichenicolous fungi from Tenerife (Canary Islands, Spain), with the description of two new species. Ascomycete.org 12(5): 199–204. [New: *Catinaria occidentalis* van den Boom (from Belgium, Luxembourg, and Spain), *Stigmidium fellhanerae* van den Boom (on *Fellhanera christiansenii* from Spain).]

van der Kolk, H. 2018. De rijke korstmosflora van Vliegbasis Deelen. Buxbaumiella 112: 4–6. [In Dutch with English abstract.]

van der Kolk, H. 2020. *Acarospora subrufula* (randsteenschubje) nieuw in Nederland. Buxbaumiella 118: 4–5. [In Dutch with English abstract.]

van der Kolk, H. 2020. *Laetisaria lichenicola*, *Stigmidium squamariae* en *Xenonectriella subimperspicua* nieuw in Nederland. Buxbaumiella 118: 1–4. [In Dutch with English abstract.]

van der Kolk, H., A. Aptroot, L. Verboom & L. B. Sparrius. 2020. Veertien soorten korstmossen nieuw in Nederland. Buxbaumiella 119: 60–68. [In Dutch with English abstract.]

van der Kolk, H., L. Geraets, M. Bingley & W. van Lanen. 2018. Gewoon boomzonnetje (*Athallia pyracea*) en de Vlierschotelkorst-associatie (*Lecanoretum sambuci*) op bakenbomen langs de Maas. Buxbaumiella 112: 20–27. [In Dutch with English abstract.]

van der Kolk, H., A. van der Pluijm & H. C. Meijer. 2019. *Strangospora deplanata*, een voor Nederland nieuw korstmos in de Grienden van de Dood in de Biesbosch. Buxbaumiella 116: 27–32. [In Dutch with English abstract.]

van der Kolk, H., T. van Trigt & L. B. Sparrius. 2019. Korstmossenhotspot Landgoed Elswout. Buxbaumiella 114: 22–25. [In Dutch with English abstract.]

van der Kolk, H.-J., P. M. Earland-Bennett & D. L. Hawksworth. 2020. A new *Psammina* species with exceptionally long conidial arms, with a key to the ten known species of the genus. The Lichenologist 52(5): 337–343. [New: *P. filamentosa* Kolk & Earl.-Benn. (on algae and lichens from The Netherlands & Great Britain).]

van der Pluijm, A. 2020. *Hyperphyscia lucida* (Physciaceae, lichenized Ascomycota), a new species from willow forests in the Biesbosch, the Netherlands. Lindbergia 43: linbg.01138. [New: *H. lucida* van der Pluijm (from The Netherlands).]

van der Pluijm, A. & J. Meijer. 2019. Een recente vondst van *Usnea glabrata* (glanzend baardmos). Buxbaumiella 114: 12–18. [In Dutch with English abstract.]

van Herk, C. M. 2019. Teloorgang van epifyten in de bossen op de Utrechtse Heuvelrug. Buxbaumiella 115: 14–22. [In Dutch with English abstract.]

van Herk, C. M. 2020. *Cetrelia cetrarioides* (grote spikkelaar) nieuw voor Nederland. Buxbaumiella 118: 18–19. [In Dutch with English abstract.]

Verboom, L. & L. B. Sparrius. 2018. *Phaeocalicium populneum* (populierenspijkertje) weer in Nederland gevonden. Buxbaumiella 113: 13–14.

Verboom, L., H. van der Kolk & L. B. Sparrius. 2020. *Polycauliona phlogina* (boomcitroenkorst) en *Diplotomma pharcidium* (boomcementkorst): twee vergeten korstmossen. Buxbaumiella 118: 10–13.

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