**References**

Aguirre-Hudson B., Kokubun T., Spooner B. M. & Tibell L. (2007) Taxonomy of *Calicium victorianum* (F. Wilson) Tibell (*Caliciaceae*, *Lecanorales*), a lichenized ascomycete new to Europe. – Lichenologist 39: 401–407.

Alors D., Dal Grande F., Schmitt I., Kraichak E., Lumbsch H. T., Crespo A. & Divakar P. K. (2014) Characterization of fungus-specific microsatellite markers in the lichen-forming fungus *Parmelina carporrhizans* (*Parmeliaceae*). – Applications in Plant Sciences 2(12): 1400081.

An K. D., Degawa Y., Fujihara E., Mikawa T., Ohkuma M. & Okada G. (2012) Molecular phylogenetic analyses based on the nuclear rRNA genes and the intron-exon structures of the nuSSU rRNA gene in *Dictyocatenulata alba* (anamorphic *Ascomycota*). – Fungal Biology 116: 1134–1145.

Andersen H. L. & Ekman S. (2004) Phylogeny of the *Micareaceae* inferred from nrSSU DNA sequences. – Lichenologist 36: 27–35.

Andersen H. L. & Ekman S. (2005) Disintegration of the *Micareaceae* (lichenized *Ascomycota*): a molecular phylogeny based on mitochondrial rDNA sequences. – Mycological Research 109: 21–30.

Argüello A., del Prado R., Cubas P. & Crespo A. (2007) *Parmelina quercina* (*Parmeliaceae*, *Lecanorales*) includes four phylogenetically supported morphospecies. – Biological Journal of the Linnean Society 91: 455–467.

Arup U. & Åkelius E. (2009) A taxonomic revision of *Caloplaca herbidella* and *C. furfuracea*. – Lichenologist 41: 465–480.

Arup U., Ekman S., Grube M., Mattsson J.-E. & Wedin M. (2007) The sister group relation of *Parmeliaceae* (*Lecanorales*, *Ascomycota*). – Mycologia 99: 42–49.

Arup U., Søchting U. & Frödén P. (2013) A new taxonomy of the family *Teloschistaceae*. – Nordic Journal of Botany 31: 16–83.

Arup U., Vondrák J. & Halıcı M. G. (2015) *Parvoplaca nigroblastidiata*, a new corticolous lichen (*Teloschistaceae*) in Europe, Turkey and Alaska – Lichenologist 47: 379–385.

Baloch E., Gilenstam G. & Wedin M. (2009) Phylogeny and classification of *Cryptodiscus*, with and taxonomic synopsis of the Swedish species. – Fungal Diversity 38: 51–68.

Baloch E., Lücking R., Lumbsch H. T. & Wedin M. (2010) Major clades and phylogenetic relationships between lichenized and non-lichenized lineages in *Ostropales* (*Ascomycota*: *Lecanoromycetes*). – Taxon 59: 1483–1494.

Bendiksby M. & Timdal E. (2013) Molecular phylogenetics and taxonomy of *Hypocenomyce* sensu lato (*Ascomycota*: *Lecanoromycetes*): Extreme polyphyly and morphological/ecological convergence. – Taxon 62: 940–956.

Bendiksby M., Mazzoni S., Jørgensen M. H., Halvorsen R. & Holien H. (2014) Combining genetic analyses of archived specimens with distribution modelling to explain the anomalous distribution of the rare lichen *Staurolemma omphalarioides*: long-distance dispersal or vicariance? – Journal of Biogeography 41: 2020–2031.

Bjelland T., Bendiksby M. & Frisch A. (2017) Geographically disjunct phylogenetic lineages in *Leptogium hibernicum* reveal *Leptogium krogiae* sp. nov. from East Africa. – Lichenologist 49: 239–251.

Blanco O., Crespo A., Divakar P. K., Elix J. A. & Lumbsch H. T. (2005) Molecular phylogeny of parmotremoid lichens (*Ascomycota*, *Parmeliaceae*). – Mycologia 97: 150–159.

Blanco O., Crespo A., Divakar P. K., Esslinger T. L., Hawksworth D. L. & Lumbsch H. T. (2004) *Melanelixia* and *Melanohalea*, two new genera segregated from *Melanelia* (*Parmeliaceae*) based on molecular and morphological data. – Mycological Research 108: 873–884.

Boehm E. W. A., Marson G., Mathiassen G. H., Gardiennet A. & Schoch C. L. (2015) An overview of the genus *Glyphium* and its phylogenetic placement in *Patellariales*. – Mycologia 107: 607–618.

Brodo I. M., Haldeman M. & Malíček J. (2019) Notes on species of the *Lecanora albella* group (*Lecanoraceae*) from North America and Europe. – Bryologist 122: 430–450.

Bungartz F., Søchting U. & Arup U. (2020) *Teloschistaceae* (lichenized *Ascomycota*) from the Galapagos Islands: a phylogenetic revision based on morphological, anatomical, chemical, and molecular data. – Plant and Fungal Systematics 65: 515–576.

Cannon P., Ertz D., Frisch A., Aptroot A., Chambers S., Coppins B., Sanderson N., Simkin J. & Wolselsey P. (2020) *Arthoniales*: *Arthoniaceae*, including the genera *Arthonia*, *Arthothelium*, *Briancoppinsia*, *Bryostigma*, *Coniocarpon*, *Diarthonis*, *Inoderma*, *Naevia*, *Pachnolepia*, *Reichlingia*, *Snippocia*, *Sporodophoron*, *Synarthonia* and *Tylophoron*. – Revisions of British and Irish Lichens 1: 3–48.

**Carlsen T., Bendiksby M., Hofton T. H., Reiso S., Bakkestuen V., Haugan R., Kauserud H. & Timdal E.** (2012) Species delimitation, bioclimatic range, and conservation status of the threatened lichen *Fuscopannaria confusa*. – Lichenologist 44: 565–575.

Clerc P. & Otte V. (2018) *Usnea viktoriana* (*Ascomycota*, *Parmeliaceae*), a new European taxon of the *Usnea barbata-dasopoga* group, with a key to the shrubby-subpendulous sorediate *Usnea* species in Europe. – Lichenologist 50: 513–527.

**Cornejo C. & Scheidegger C.** (2010) *Lobaria macaronesica* sp. nov., and the phylogeny of *Lobaria* sect. *Lobaria* (*Lobariaceae*) in Macaronesia. – Bryologist 113: 590–604.

**Crespo A., Divakar P. K., Argüello A., Gasca C. & Hawksworth D. L. (2004) Molecular studies on *Punctelia* species of the Iberian Peninsula, with an emphasis on specimens newly colonizing Madrid.** – **Lichenologist 36: 299–308.**

Crespo A., Kauff F., Divakar P. K., Del Prado R., Pérez-Ortega S., Amo de Paz G., Ferencova Z., Blanco O., Roca-Valiente B., Núñez-Zapata J., Cubas P., Argüello A., Elix J. A., Esslinger T. L., Hawksworth D. L., Millanes A., Molina M. C., Wedin M., Ahti T., Aptroot A., Barreno E., Bungartz F., Calvelo S., Candan M., Cole M., Ertz D., Goffinet B., Lindblom L., Lücking R., Lutzoni F., Mattsson J.-E., Messuti M. I., Miadlikowska J., Piercey-Normore M., Rico V. J., Sipman H. J. M., Schmitt I., Spribille T., Thell A., Thor G., Upreti D. K. & Lumbsch H. T. (2010) Phylogenetic generic classification of parmelioid lichens (*Parmeliaceae*, *Ascomycota*) based on molecular, morphological and chemical evidence. – Taxon 59: 1735–1753.

**Crespo A., Lumbsch H. T., Mattsson J.-E., Blanco O., Divakar P. K., Articus K., Wiklund E., Bawingan P. A. & Wedin M.** (2007) Testing morphology-based hypotheses of phylogenetic relationships in *Parmeliaceae* (*Ascomycota*) using three ribosomal markers and the nuclear RPB1 gene. – Molecular Phylogenetics and Evolution 44: 812–824.

Czarnota P. & Guzow-Krzemińska B. (2010) A phylogenetic study of the *Micarea prasina* group shows that *Micarea micrococca* includes three distinct lineages. – Lichenologist 42: 7–21.

Czarnota P. & Guzow-Krzemińska B. (2012) ITS rDNA data confirm and delimitation of *Bacidina arnoldiana* and *B. sulphurella* and support and description of a new species within the genus *Bacidina*. – Lichenologist 44: 743–755.

**Czarnota P. & Guzow-Krzemińska B.** (2018) *Bacidina mendax* sp. nov., a new widespread species in Central Europe, together with a new combination within the genus *Bacidina*. – Lichenologist 50: 43–57.

Del Prado R., Schmitt I., Kautz S., Palice Z., Lücking R. & Lumbsch H. T. (2006) Molecular data place *Trypetheliaceae* in *Dothideomycetes*. – Mycological Research 110: 511–520.

Díaz-Escandón D., Tagirdzhanova G., Vanderpool D., Allen C. C. G., Aptroot A., Češka O., Hawksworth D. L., Huereca A., Knudsen K., Kocourková J., Lücking R., Resl P. & Spribille T. (2022) Genome-level analyses resolve an ancient lineage of symbiotic ascomycetes. – Current Biology 32: 1–10.

Dietrich M. & Malíček J. (2019) *Cliostomum haematommatis* und *Loxospora cristinae* – zwei wenig bekannte corticole, sorediöse Krustenflechten in der Schweiz. – Meylania 63: 22–29.

**Divakar P. K., Amo de Paz G., del Prado R., Esslinger T. L. & Crespo A. (2007) Upper cortex anatomy corroborates phylogenetic hypothesis in species of *Physconia* (*Ascomycota*, *Lecanoromycetes*). Mycological Research 111: 1311–1320.**

Divakar P. K., Blanco O., Hawksworth D. L. & Crespo A. (2005) Molecular phylogenetic studies on the *Parmotrema reticulatum* (syn. *Rimelia reticulata*) complex, including the confirmation of *P. pseudoreticulatum*. – Lichenologist 37: 55–65.

Divakar P. K., Crespo A., Blanco O. & Lumbsch H. T. (2006) Phylogenetic significance of morphological characters in the tropical *Hypotrachyna* clade of parmelioid lichens (*Parmeliaceae*, *Ascomycota*). – Molecular Phylogenetics and Evolution 40: 448–458.

**Divakar P. K., Crespo A., Wedin M., Leavitt S. D., Hawksworth D. L., Myllys L., McCune B., Randlane T., Bjerke J. W., Ohmura Y., Schmitt I., Boluda C. G., Alors D., Roca-Valiente B., Del-Prado R., Ruibal C., Buaruang K., Núñez-Zapata J., Amo de Paz G., Rico V. J., Molina M. C., Elix J. A., Esslinger T. L., Tronstad I. K., Lindgren H., Ertz D., Gueidan C., Saag L., Mark K., Singh G., Dal Grande F., Parnmen S., Beck A., Benatti M. N., Blanchon D., Candan M., Clerc P., Goward T., Grube M., Hodkinson B. P., Hur J.-S., Kantvilas G., Kirika P. M., Lendemer J., Mattsson J.-E., Messuti M. I., Miadlikowska J., Nelsen M., Ohlson J. I., Pérez-Ortega S., Saag A., Sipman H. J. M., Sohrabi M., Thell A., Thor G., Truong C., Yahr R., Upreti D. K., Cubas P. & Lumbsch H. T.** (2015) Evolution of complex symbiotic relationships in a morphologically derived family of lichen-forming fungi. – New Phytologist208: 1217–1226.

**Divakar P. K., Lumbsch H. T., Ferencova Z., Del Prado R. & Crespo A. (2010) *Remototrachyna*, a newly recognized tropical lineage of lichens in the *Hypotrachyna* clade (*Parmeliaceae*, *Ascomycota*), originated in the Indian subcontinent.** – **American Journal of Botany 97: 579–590.**

**Divakar P. K., Wei X.-L., McCune B., Cubas P., Boluda C. G., Leavitt S. D., Crespo A., Tchabanenko S. & Lumbsch H. T.** (2019) Parallel Miocene dispersal events explain the cosmopolitan distribution of the Hypogymnioid lichens. – Journal of Biogeography 46: 945–955.

Ekman S. & Tønsberg T. (2002) Most species of *Lepraria* and *Leproloma* form and monophyletic group closely related to *Stereocaulon*. – Mycological Research 106: 1262–1276.

Ekman S. (2023) Four new and two resurrected species of *Bacidina* from Sweden, with notes and a preliminary key to the known Scandinavian species. – Nordic Journal of Botany 2023: e03846.

Ekman S. (2001) Molecular phylogeny of the *Bacidiaceae* (*Lecanorales*, lichenized *Ascomycota*). – Mycological Research 105: 783–797.

Ekman S., Andersen H. L. & Wedin M. (2008) The limitations of ancestral state reconstruction and the evolution of the ascus in the *Lecanorales* (lichenized *Ascomycota*). – Systematic Biology 57: 141–156.

**Ekman S., Wedin M., Lindblom L. & Jørgensen P. M.** (2014) Extended phylogeny and a revised generic classification of the *Pannariaceae* (*Peltigerales*, *Ascomycota*). – Lichenologist 46: 627–656.

Ertz D. & Diederich P. (2015) Dismantling *Melaspileaceae*: and first phylogenetic study of *Buelliella*, *Hemigrapha*, *Karschia*, *Labrocarpon* and *Melaspilea*. – Fungal Diversity 71: 141–164.

Ertz D. & Diederich P. (2022) Unravelling the diversity of the lichen genus *Porina* (*Porinaceae*) in Mauritius. – Plant Ecology and Evolution 155: 123–152.

**Ertz D., Aptroot A., Sanderson N., Coppins B., Broeck D. van den & Diederich P.** (2020) A new species of *Synarthonia* from Luxembourg, and and new combination in the genus *Reichlingia* (*Arthoniaceae*). – Lichenologist 52: 261–266.

**Ertz D., Coppins B. J. & Sanderson N. A.** (2018c) The British endemic *Enterographa sorediata* is the widespread *Syncesia myrticola* (*Roccellaceae*, *Arthoniales*). – Lichenologist 50: 153–160.

Ertz D., Guzow-Krzemińska B., Thor G., Łubek A. & Kukwa M. (2018a) Photobiont switching causes changes in the reproduction strategy and phenotypic dimorphism in the *Arthoniomycetes*. – Scientific Reports 8: 4952. [14 p.]

Ertz D., Miadlikowska J., Lutzoni F., Dessein S., Raspé O., Vigneron N., Hofstetter V. & Diederich P. (2009) Towards and new classification of the *Arthoniales* (*Ascomycota*) based on and three-gene phylogeny focussing on the genus *Opegrapha*. – Mycological Research 113: 141–152.

Ertz D., Sanderson N. & Lebouvier M. (2021) *Thelopsis* challenges the generic circumscription in the *Gyalectaceae* and brings new insights to the taxonomy of *Ramonia*. – Lichenologist 53: 45–61.

**Ertz D., Sanderson N., Coppins B. J., Klepsland J. T. & Frisch A.**(2019) *Opegrapha multipuncta* and *Schismatomma quercicola* (*Arthoniomycetes*) belong to the *Lecanoromycetes*. – Lichenologist 51: 395–405.

Ertz D., Sanderson N., Łubek A. & Kukwa M. (2018b) Two new species of *Arthoniaceae* from old-growth European forests, *Arthonia thoriana* and *Inoderma sorediatum*, and and new genus for *Schismatomma niveum*. – Lichenologist 50: 161–172.

Fedorenko N. M., Stenroos S., Thell A., Kärnefelt I. & Kondratyuk S. Y. (2009) A phylogenetic analysis of xanthorioid lichens (*Teloschistaceae*, *Ascomycota*) based on ITS and mtSSU sequences. – Bibliotheca Lichenologica 100: 49–84.

Fedorenko N. M., Stenroos S., Thell A., Kärnefelt I., Elix J. A., Hur J.-S. & Kondratyuk S. Y. (2012) Molecular phylogeny of xanthorioid lichens (*Teloschistaceae*, *Ascomycota*), with notes on their morphology. – Bibliotheca Lichenologica 108: 45–64.

Fernández-Brime S., Llimona X., Lutzoni F. & Gaya E. (2013) Phylogenetic study of *Diploschistes* (lichen-forming Ascomycota: *Ostropales*: *Graphidaceae*), based on morphological, chemical, and molecular data. – Taxon 62: 267–280.

Fernández-Brime S., Llimona X., Molnar K., Stenroos S., Högnabba F., Björk C., Lutzoni F. & Gaya E. (2011) Expansion of the *Stictidaceae* by the addition of the saxicolous lichen-forming genus *Ingvariella*. – Mycologia 103: 755–763.

Fernández-Brime S., Olariaga I., Baral H. O., Friebes G., Jaklitsch W., Senn-Irlet B. & Wedin M. (2018) *Cryptodiscus muriformis* and *Schizoxylon gilenstamii*, two new species of *Stictidaceae* (*Ascomycota*). – Mycological Progress 17: 295–305.

Firdous Q., Habib K., Khalid A. N. & Aptroot A. (2022) *Physcia vitii* Nadv. new to south Asia – molecular data. – Pakistan Journal of Botany 54: 2341–2345.

Frisch A. & Ohmura Y. (2015) The phylogenetic position of *Normandina simodensis* (*Verrucariaceae*, Lichenized *Ascomycota*). – Bulletin of the National Museum of Nature and Science 41: 1–7.

Frisch A., Moen V. S., Grube M. & Bendiksby M. (2020) Integrative taxonomy confirms three species of *Coniocarpon* (*Arthoniaceae*) in Norway. – MycoKeys 62: 27–51.

Frisch A., Ohmura Y., Ertz D. & Thor G. (2015) *Inoderma* and related genera in *Arthoniaceae* with elevated white pruinose pycnidia or sporodochia. – Lichenologist 47: 233–256.

Frisch A., Thor G., Ertz D. & Grube M. (2014) The Arthonialean challenge: Restructuring *Arthoniaceae*. – Taxon 63: 727–744.

**Frisch A., Thor G., Moon K. H. & Ohmura Y.** (2017) *Arthonia incarnata* (*Arthoniaceae*), a rare and poorly known old-growth forest lichen new to Asia. – Nordic Journal of Botany 35: 587–594.

Frolov I., Vondrák J., Košnar J. & Arup U. (2021) Phylogenetic relationships within *Pyrenodesmia* sensu lato and the role of pigments in its taxonomic interpretation. – Journal of Systematics and Evolution 59: 454–474.

Gasparyan A., Sipman H. J. M. & Lücking R. (2017) *Ramalina europaea* and *R. labiosorediata*, two new species of the *R. pollinaria* group (*Ascomycota*: *Ramalinaceae*), and new typifications for *Lichen pollinarius* and *L. squarrosus*. – Lichenologist 49: 301–319.

Gaya E., Fernández-Brime S., Vargas R., Lachlan R. F., Gueidan C., Ramírez-Mejía M. & Lutzoni F. (2015) The adaptive radiation of lichen-forming *Teloschistaceae* is associated with sunscreening pigments and and bark-to-rock substrate shift. – The Proceedings of the National Academy of Sciences 112: 11600–11605.

Gerasimova J., Urbanavichene I., Urbanavichus G. & Beck A. (2021) Morphological and phylogenetic analyses of *Toniniopsis subincompta* s. lat. (*Ramalinaceae*, *Lecanorales*) in Eurasia. – Lichenologist 53: 171–183.

**Greenwood S., Chen J.-C., Chen C.-T. & Jump A. S.** (2016) Community change and species richness reductions in rapidly advancing tree lines. – Journal of Biogeography 43: 2274–2284.

Groner U. (2006) The genus *Chaenothecopsis* (*Mycocaliciaceae*) in Switzerland, and a key to the European species. – Lichenologist 38: 395–406.

Grube M. & Arup U. (2001) Molecular and morphological evolution in the *Physciaceae* (*Lecanorales*, lichenized *Ascomycotina*), with special emphasis on the genus *Rinodina*. – Lichenologist 33: 63–72.

Grube M. & Blaha J. (2003) On the phylogeny of some polyketide synthase genes in the lichenized genus *Lecanora*. – Mycological Research 107: 1419–1426.

Grube M., Baloch E. & Arup U. (2004) A phylogenetic study of the *Lecanora rupicola* group (*Lecanoraceae*, *Ascomycota*). – Mycological Research 108: 506–514.

Gueidan C., Aptroot A., Cáceres M. E. S. & Binh N. Q. (2016) Molecular phylogeny of the tropical lichen family *Pyrenulaceae*: contribution from dried herbarium specimens and FTA card samples. – Mycological Progress 15: 7. [21 p.]

Guzow-Krzemińska B., Czarnota P., Łubek A. & Kukwa M. (2016) *Micarea soralifera* sp. nov., and new sorediate species in the *M. prasina* group. – Lichenologist 48: 161–169.

Guzow-Krzemińska B., Sérusiaux E., van den Boom P. P. G., Brand A. M., Launis A., Łubek A. & Kukwa M. (2019) Understanding the evolution of phenotypical characters in the *Micarea prasina* group (*Pilocarpaceae*) and descriptions of six new species within the group. – MycoKeys 57: 1–30.

Helms G., Friedl T. & Rambold G. (2003) Phylogenetic relationships of the *Physciaceae* inferred from rDNA sequence data and selected phenotypic characters. – Mycologia 95: 1078–1099.

Hodkinson B. P. & Lendemer J. C. (2013) Next-generation sequencing reveals sterile crustose lichen phylogeny. – Mycosphere 4: 1028–1039.

Hofmeister J., Vondrák J., Ellis C., Coppins B., Sanderson N., Malíček J., Palice Z., Acton A., Svoboda S. & Gloor R. (2022) High and balanced contribution of regional biodiversity hotspots to epiphytic and epixylic lichen species diversity in Great Britain. – Biological Conservation 266: 109443.

Hurtado P., Prieto M., Martínez-Vilalta J., Giordani P., Aragón G., López-Angulo J., Košuthová A., Merinero S., Díaz-Peña E. M., Rosas T., Benesperi R., Bianchi E., Grube M., Mayrhofer H., Nascimbene J., Wedin M., Westberg M. & Martínez I. (2020) Disentangling functional trait variation and covariation in epiphytic lichens along and continent-wide latitudinal gradient. – Proceedings of the Royal Society B 287: 20192862.

Hyde K. D., Hongsanan S., Jeewon R. et al. (2016): Fungal diversity notes 367–490: taxonomic and phylogenetic contributions to fungal taxa. – Fungal Diversity 80: 1–270.

Ivanova N. V. & Hafellner J. (2002) Searching for the correct placement of *Megaspora* by use of ITS1, 5.8S and IS2 rDNA sequence data. – Bibliotheca Lichenologica 82: 113–122.

Ivanovich C., Dolnik C., Otte V., Palice Z., Sohrabi M. & Printzen C. (2021) A preliminary phylogeny of the *Lecanora saligna*-group, with notes on species delimitation. – Lichenologist 53: 63–79.

Jayalal U., Jang S. H., Yu N. H., Oh S. O. & Hur J.-S. (2014) Notes on the Lichen Genus *Leptogium* (*Collemataceae*, *Ascomycota*) in South Korea. – Mycobiology 42: 120–131.

**Kaasalainen U., Tuovinen V., Kirika P. M., Mollel N. P., Hemp A. & Rikkinen J.** (2021) Diversity of *Leptogium* (*Collemataceae*, *Ascomycota*) in East African montane ecosystems. – Microorganisms 9: 314.

**Kalb K., Staiger B., Elix J. A., Lange U. & Lumbsch H. T.** (2008) A new circumscription of the genus *Ramboldia* (*Lecanoraceae*, *Ascomycota*) based on morphological and molecular evidence. – Nova Hedwigia 86: 23–42.

Kantelinen A., Hyvärinen M.-T., Kirika P. M. & Myllys L. (2021) Four new *Micarea* species from the montane cloud forests of Taita Hills, Kenya. – Lichenologist 53: 81–94.

**Kantvilas G., Gueidan C. & Tehler A.** (2020) The strange case of *Ocellomma rediuntum* (*Arthoniales*: *Roccellaceae*) in Australia: A remarkably disjunct lichen. – Lichenologist 52: 187–195.

**Keepers K. G., Pogoda C. S., White K. H., Anderson-Stewart C. R., Hoffman J. R., Ruiz A. M., McCain C. M., Lendemer J. C., Kane N. C. & Tripp E. A.** (2019) Whole genome shotgun sequencing detects greater lichen fungal diversity than amplicon-based methods in environmental samples. – Frontiers in Ecology and Evolution 7: 484.

Kelly L. J., Hollingsworth P. M., Coppins B. J., Ellis C. J., Harrold P., Tosh J. & Yahr R. (2011) DNA barcoding of lichenized fungi demonstrates high identification success in and floristic context. – New Phytologist 191: 288–300.

**Kistenich S., Bendiksby M., Ekman S., Cáceres M. E. S., Hernández J. E. M. & Timdal E.** (2019a) Towards an integrative taxonomy of *Phyllopsora* (*Ramalinaceae*). – Lichenologist 51: 323–392.

Kistenich S., Halvorsen R., Schrøder-Nielsen A., Thorbek L., Timdal E. & Bendiksby M. (2019b) DNA sequencing historical lichen specimens. – Frontiers in Ecology and Evolution 7: 5.

Kistenich S., Timdal E., Bendiksby M. & Ekman S. (2018) Molecular systematics and character evolution in the lichen family *Ramalinaceae* (*Ascomycota*: *Lecanorales*). – Taxon 67: 871–904.

Konoreva L., Chesnokov S., Kuznetsova E. & Stepanchikova I. (2019a) Remarkable records of *Micarea* from the Russian Far East and significant extension of *Micarea laeta* and *M. microareolata* range. – Botanica 25: 186–201.

Konoreva L., Prokopiev I., Frolov I., Chesnokov S., Rozhina S., Poryadina L. & Shavarda A. (2019b) Metabolite profiling of the *Cladonia* lichens using gas chromatography-mass spectrometry. – Biochemical Systematics and Ecology 85: 3–12.

Košuthová A., Westberg M., Otálora M. A. G. & Wedin M. (2019) *Rostania* revised: testing generic delimitations in *Collemataceae* (*Peltigerales*, *Lecanoromycetes*). – MycoKeys 47: 17–33.

Kraichak E., Lücking R., Aptroot A., Beck A., Dornes P., John V., Lendemer J. C., Nelsen M. P., Neuwirth G., Nutakki A., Parnmen S., Sohrabi M., Tønsberg T. & Lumbsch H. T. (2015) Hidden diversity in the morphologically variable script lichen (*Graphis scripta*) complex (*Ascomycota*, *Ostropales*, *Graphidaceae*). – Organisms Diversity and Evolution 15: 447–458.

Launis A. & Myllys L. (2019) *Micarea fennica*, and new lignicolous lichen species from Finland. – Phytotaxa 409: 179–188.

Launis A., Malíček J., Svensson M., Tsurykau A., Sérusiaux E. & Myllys L. (2019a) Sharpening species boundaries in the *Micarea prasina* group, with and new circumscription of the type species *M. prasina*. – Mycologia 111: 574–592.

Launis A., Pykälä J., Boom van den P., Sérusiaux E. & Myllys L. (2019b) Four new epiphytic species in the *Micarea prasina* group from Europe. – Lichenologist 51: 7–25.

Leavitt S. D., Esslinger T. L., Divakar P. K., Crespo A. & Lumbsch H. T. (2016) Hidden diversity before our eyes: Delimiting and describing cryptic lichen-forming fungal species in camouflage lichens (*Parmeliaceae*, *Ascomycota*). – Fungal Biology 120: 1374–1391.

Lendemer J. C. & Hodkinson B. P. (2013) A radical shift in the taxonomy of *Lepraria* s.l.: Molecular and morphological studies shed new light on the evolution of asexuality and lichen growth form diversification. – Mycologia 105: 994–1018.

Lindblom L. & Blom H. H. (2014) *Xanthomendoza poeltii* is a synonym of *X. oregana* (*Teloschistaceae*, lichen-forming ascomycetes). – Lichenologist 46: 829–832.

Lindblom L., Blom H. H. & Timdal E. (2019) The genus *Xanthomendoza* in Norway. – Graphis Scripta 31: 54–75.

Liu D., Wang L., Wang X. Y. & Hur J.-S. (2019) Two new species of the genus *Candelariella* from China and Korea. – Mycobiology 47: 40–49.

Lohtander K., Ahti T., Stenroos S. & Urbanavichus G. (2008) Is *Anaptychia* monophyletic? and phylogenetic study based on nuclear and mitochondrial genes. – Annales Botanici Fennici 45: 55–60.

Lohtander K., Källersjö M., Moberg R. & Tehler A. (2000) The family *Physciaceae* in Fennoscandia: phylogeny inferred from ITS sequences. – Mycologia 92:728–735.

Lohtander K., Oksanen I. & Rikkinen J. (2002) A phylogenetic study of *Nephroma* (lichen-forming *Ascomycota*). – Mycological Research 106: 777–787.

Lücking R., Moncada B. & Hawksworth D. (2019) Gone with the wind: Sequencing its type species supports inclusion of *Cryptolechia* in *Gyalecta* (*Ostropales*: *Gyalectaceae*). – Lichenologist 51: 287–299.

Lücking R., Nadel M. R. A., Araujo E. & Gerlach A. (2020) Two decades of DNA barcoding in the genus *Usnea* (*Parmeliaceae*): how useful and reliable is the ITS? – Plant and Fungal Systematics 65: 303–357.

Lumbsch H. T., Schmitt I., Döring H. & Wedin M. (2001) ITS sequence data suggest variability of ascus types and support ontogenetic characters as phylogenetic discriminators in the *Agyriales* (*Ascomycota*). – Mycological Research 105: 265–274.

Lumbsch H. T., Schmitt I., Palice Z., Wiklund E., Ekman S. & Wedin M. (2004) Supraordinal phylogenetic relationships of *Lecanoromycetes* based on and Bayesian analysis of combined nuclear and mitochondrial sequences. – Molecular Phylogenetics and Evolution 31: 822–832.

Lumbsch H. T., Zimmermann D. G. & Schmitt I. (2009) Phylogenetic position of ephemeral lichens in *Thelocarpaceae* and *Vezdaeaceae* (*Ascomycota*). – Bibliotheca Lichenologica 100: 389–398.

Lutzoni F., Kauff F., Cox C., McLaughlin D., Celio G., Dentinger B., Padamsee M., Hibbett D., James T. Y., Baloch E., Grube M., Reeb V., Hofstetter V., Schoch C., Arnold A. E., Miadlikowska J., Spatafora J., Johnson D., Hambleton S., Crockett M., Shoemaker R., Sung G.-H., Lücking R., Lumbsch T., O'Donnell K., Binder M., Diederich P., Ertz D., Gueidan C., Hansen K., Harris R. C., Hosaka K., Lim Y.-W., Matheny B., Nishida H., Pfister D. & Rogers J. (2004) Assembling the fungal tree of life: progress, classification, and evolution of subcellular traits. – American Journal of Botany 91: 1446–1480.

Magain N. & Sérusiaux E. (2014) Do photobiont switch and cephalodia emancipation act as evolutionary drivers in the lichen symbiosis? A case study in the *Pannariaceae* (*Peltigerales*). – PLoS ONE 9: e89876.

Magain N. & Sérusiaux E. (2015) Dismantling the treasured flagship lichen *Sticta fuliginosa* (*Peltigerales*) into four species in Western Europe. – Mycological Progress 14(97): 1–33.

Malíček J. (2022b) Lišejníky přírodní rezervace Ptačí stěna v Blanském lese. – Bryonora 70: 1–14.

Malíček J. (2023) Lišejníky NPR Velká Pleš na Křivoklátsku. – Bryonora 71: 1–27.

Malíček J. (2022a) Lišejníky přírodní rezervace Getsemanka v Brdech. – Bryonora 69: 19–29.

Malíček J., Berger F., Palice Z. & Vondrák J. (2017) Corticolous sorediate *Lecanora* species (*Lecanoraceae*, *Ascomycota*) containing atranorin in Europe. – Lichenologist 49: 431–455.

Malíček J., Bouda F., Hlisnikovský D., Konečná E., Peksa O. & Syrovátková L. (2021) Lišejníky zaznamenané během bryologicko-lichenologických dní ve Spáleném Poříčí. – Bryonora 67: 8–23.

Malíček J., Coppins B., Palice Z., Vančurová Z., Vondrák J. & Sanderson N. (2023) *Coenogonium nimisii* – a new isidiate epiphytic lichen similar to *Porina rosei*. – Lichenologist (in press).

Malíček J., Konečná E. & Steinová J. (2023) Contribution to the lichen biota of Romania with a description of *Verrucaria pycnidiata* sp. nov. – Herzogia, submitted.

Malíček J., Palice Z. & Vondrák J. (2018b) Additions and corrections to the lichen biota of the Czech Republic. – Herzogia 31: 453–475.

Malíček J., Palice Z., Acton A., Berger F., Bouda F., Sanderson N. & Vondrák J. (2018a) Uholka primeval forest in the Ukrainian Carpathians – and keynote area for diversity of forest lichens in Europe. – Herzogia 31: 140–171.

Malíček J., Palice Z., Vondrák J. & Tønsberg T. (2020) *Japewia aliphatica* (*Lecanoraceae*, lichenized *Ascomycota*), a new acidophilous, sorediate-blastidiate lichen from Europe. – Phytotaxa 461: 21–30.

Malíček J., Palice Z., Vondrák J., Łubek A. & Kukwa M. (2018c) *Bacidia albogranulosa* (*Ramalinaceae*, lichenized *Ascomycota*), and new sorediate lichen from European old-growth forests. – MycoKeys 44: 51–62.

Mark K., Cornejo C., Keller C., Flück D. & Scheidegger C. (2016) Barcoding lichen-forming fungi using 454 pyrosequencing is challenged by artifactual and biological sequence variation. – Genome 59: 685–704.

**Mark K., Randlane T., Thor G., Hur J.-S., Obermayer W. & Saag A.** (2019) Lichen chemistry is concordant with multilocus gene genealogy in the genus *Cetrelia* (*Parmeliaceae*, *Ascomycota*). – Fungal Biology 123: 125–139.

Marthinsen G., Rui S. & Timdal E. (2019) OLICH: and reference library of DNA barcodes for Nordic lichens. – Biodiversity Data Journal 7: e36252.

Martín M. P. & Winka K. (2000) Alternative methods of extracting and amplifying DNA from lichens. – Lichenologist 32: 189–196.

**Miadlikowska J., Kauff F., Hofstetter V., Fraker E., Grube M., Hafellner J., Reeb V., Hodkinson B. P., Kukwa M., Lücking R., Hestmark G., Otálora M. G., Rauhut A., Büdel B., Scheidegger C., Timdal E., Stenroos S., Brodo I. M., Perlmutter G. B., Ertz D., Diederich P., Lendemer J. C., May P. F., Schoch C. L., Arnold A. E., Gueidan C., Tripp E., Yahr R., Robertson C. & Lutzoni F.** (2006) New insights into classification and evolution of the *Lecanoromycetes* (*Pezizomycotina*, *Ascomycota*) from phylogenetic analyses of three ribosomal RNA- and two protein-coding genes. – Mycologia 98: 1088–1103.

Miadlikowska J., Kauff F., Högnabba F., Oliver J. C., Molnár K., Fraker E., Gaya E., Hafellner J., Hofstetter V., Gueidan C., Otálora M. A., Hodkinson B., Kukwa M., Lücking R., Björk C., Sipman H. J., Burgaz A. R., Thell A., Passo A., Myllys L., Goward T., Fernández-Brime S., Hestmark G., Lendemer J., Lumbsch H. T., Schmull M., Schoch C. L., Sérusiaux E., Maddison D. R., Arnold A. E., Lutzoni F. & Stenroos S. (2014) A multigene phylogenetic synthesis for the class *Lecanoromycetes* (*Ascomycota*): 1307 fungi representing 1139 infrageneric taxa, 317 genera and 66 families. – Molecular Phylogenetics and Evolution 79: 132–168.

Millanes A. M., Truong C., Westberg M., Diederich P. & Wedin M. (2014) Host switching promotes diversity in host-specialized mycoparasitic fungi: uncoupled evolution in the *Biatoropsis-Usnea* system. – Evolution 68: 1576–1593.

Mitchell J. K., Garrido-Benavent I., Quijada L. & Pfister D. H. (2021) *Sareomycetes*: more diverse than meets the eye. – IMA Fungus 12: 6.

**Moncada B., Reidy B. & Lücking R.** (2014) A phylogenetic revision of Hawaiian *Pseudocyphellaria* sensu lato (lichenized *Ascomycota*: *Lobariaceae*) reveals eight new species and a high degree of inferred endemism. – Bryologist 117: 119–160.

Muggia L., Gueidan C., Grube M. (2010) Phylogenetic placement of some morphologically unusual members of *Verrucariales*. – Mycologia 102: 835–846.

Muggia L., Mancinelli R., Tønsberg T., Jablonska [recte Jabłońska] A., Kukwa M. & Palice Z. (2017) Molecular analyses uncover the phylogenetic placement of the lichenized hyphomycetous genus *Cheiromycina*. – Mycologia 109: 588–600.

Myllys L., Velmala S., Holien H., Halonen P., Wang L. S. & Goward T. (2011) Phylogeny of the genus *Bryoria*. – Lichenologist 43: 613–638.

Nadyeina O., Grube M. & Mayrhofer H. (2010) A contribution to the taxonomy of the genus *Rinodina* (*Physciaceae*, lichenized *Ascomycotina*) using combined ITS and mtSSU rDNA data. – Lichenologist 42: 521–531.

Neuwirth G. & Aptroot A. (2011) Recognition of four morphologically distinct species in the *Graphis scripta* complex in Europe. – Herzogia 24: 207–230.

Nordin A., Savić S. & Tibell L. (2010) Phylogeny and taxonomy of *Aspicilia* and *Megasporaceae*. – Mycologia 102: 1339–1349.

Nuñez-Zapata J., Alors D., Cubas P., Divakar P. K., Leavitt S. D., Lumbsch H. T. & Crespo A. (2017) Understanding disjunct distribution patterns in lichen-forming fungi: insights from *Parmelina* (*Parmeliaceae*: *Ascomycota*). – Botanical Journal of the Linnean Society 184: 238–253.

Ohmura Y. (2002) Phylogenetic evaluation of infrageneric groups of the genus *Usnea* based on ITS regions in rDNA. – Journal of the Hattori Botanical Laboratory 92: 231–243.

**Orange A**. (2022) The crustose species of *Normandina* (*Verrucariaceae*). – Lichenologist 54: 371–378.

Orange A., Palice Z. & Klepsland J. (2020) A new isidiate saxicolous species of *Porina* (*Ascomycota*, *Ostropales*, *Porinaceae*). – Lichenologist 52: 267–277.

Otálora M. A. G. & Wedin M. (2013) *Collema fasciculare* belongs in *Arctomiaceae*. – Lichenologist 45: 295–304.

Otálora M. A. G., Aragón G., Martínez I. & Wedin M. (2013) Cardinal characters on a slippery slope – A re-evaluation of phylogeny, character evolution, and evolutionary rates in the jelly lichens (*Collemataceae* s. str.). – Molecular Phylogenetics and Evolution 68: 185–198.

Otálora M. A. G., Aragón G., Molina M. C., Martínez I. & Lutzoni F. (2010) Disentangling the *Collema-Leptogium* complex through and molecular phylogenetic study of the *Collemataceae* (*Peltigerales*, lichen-forming *Ascomycota*). – Mycologia 102: 279–290.

**Otálora M. A. G., Martínez I., Aragón G. & Wedin M.** (2017) Species delimitation and phylogeography of the *Pectenia* species-complex: A misunderstood case of species-pairs in lichenized fungi, where reproduction mode does not delimit lineages. – Fungal Biology 121: 222–233.

Otálora M. A. G., Martínez I., Molina M. C., Aragón G. & Lutzoni F. (2008) Phylogenetic relationships and taxonomy of the *Leptogium lichenoides* group (*Collemataceae*, *Ascomycota*) in Europe. – Taxon 57: 907–921.

Palice Z. & Printzen C. (2004) Genetic variability in tropical and temperate populations of *Trapeliopsis glaucolepidea*: evidence against long-range dispersal in and lichen with disjunct distribution. – Mycotaxon 90: 43–54.

Palice Z., Malíček J., Peksa O. & Vondrák J. (2018) New remarkable records and range extensions in the central European lichen biota. – Herzogia 31: 518–534.

**Park J. S., Park S.-Y., Park C.-H., Kondratyuk S. Y., Oh S.-O. & Hur J.-S.** (2017) Taxonomic revision of the lichen genera *Pertusaria*, *Varicellaria*, and *Variolaria* (*Pertusariales*, *Ascomycota*) in South Korea. – Mycobiology 45: 270–285.

Parnmen S., Lücking R. & Lumbsch H. T. (2012) Phylogenetic classification at generic level in the absence of distinct phylogenetic patterns of phenotypical variation: and case study in *Graphidaceae* (*Ascomycota*). – PLoS ONE 7: e51392.

Pérez-Ortega S., Spribille T., Palice Z., Elix J. A. & Printzen C. (2010) A molecular phylogeny of the *Lecanora varia* group, including and new species from western North America. – Mycological Progress 9: 523–535.

Pino-Bodas R., Zhurbenko M. P. & Stenroos S. (2017) Phylogenetic placement within *Lecanoromycetes* of lichenicolous fungi associated with *Cladonia* and some other genera. – Persoonia 10: 286–292.

Prieto M. & Wedin M. (2017) Phylogeny, taxonomy and diversification events in the *Caliciaceae*. – Fungal Diversity 82: 221–238.

Prieto M., Baloch E., Tehler A. & Wedin M. (2013) Mazaedium evolution in the *Ascomycota* (*Fungi*) and the classification of mazaediate groups of formerly unclear relationship. – Cladistics 29: 296–308.

Printzen C. (2014) A molecular phylogeny of the lichen genus *Biatora* including some morphologically similar species. – Lichenologist 46: 441–453.

Printzen C., Cezanne R., Eichler M. & Lumbsch H. T. (2012) The genera *Aphanopsis* and *Steinia* represent basal lineages within *Leotiomyceta*. – Bibliotheca Lichenologica 108: 177–186.

Printzen C., Halda J. P., McCarthy J. W., Palice Z., Rodriguez-Flakus P., Thor G., Tønsberg T. & Vondrák J. (2016) Five new species of *Biatora* from four continents. – Herzogia 29: 566–585.

Redinger K. (1937) *Arthoniaceae*, *Graphidaceae* etc., Lief. 1. *Arthoniaceae*. – In: Rabenhorst G. L. (ed.), Kryptogamen-Flora von Deutschland, Österreich und der Schweiz. 2nd IX. Die Flechten. Abt. 2(1), p. 1–180, Borntraeger, Leipzig.

Reese Næsborg R., Ekman S. & Tibell L. (2007) Molecular phylogeny of the genus *Lecania* (*Ramalinaceae*, lichenized *Ascomycota*). – Mycological Research 111: 581–591.

Resl P., Mayrhofer H., Clayden S. R., Spribille T., Thor G., Tønsberg T. & Sheard J. W. (2016) Morphological, chemical and species delimitation analyses provide new taxonomic insights into two groups of *Rinodina*. – Lichenologist 48: 469–488.

Resl P., Schneider K., Westberg M., Printzen C., Palice Z., Thor G., Fryday A., Mayrhofer H. & Spribille T. (2015) Diagnostics for and troubled backbone: testing topological hypotheses of trapelioid lichenized fungi in and large-scale phylogeny of *Ostropomycetidae* (*Lecanoromycetes*). – Fungal Diversity 73: 239–258.

**Rivas Plata E., Hernández M. J. E., Lücking R., Staiger B., Kalb K. & Cáceres M. E. S.** (2011) *Graphis* is two genera: A remarkable case of parallel evolution in lichenized *Ascomycota*. – Taxon 60: 99–107.

Rivas Plata E., Parnmen S., Staiger B., Mangold A., Frisch A., Weerakoon G., Hernández M. J. E., Cáceres M. E. S., Kalb K., Sipman H. J. M., Common R. S., Nelsen M. P., Lücking R. & Lumbsch H. T. (2013) A molecular phylogeny of *Graphidaceae* (*Ascomycota*, *Lecanoromycetes*, *Ostropales*) including 428 species. – MycoKeys 6: 55–94.

Saag L., Tõrra T., Saag A., Del-Prado R. & Randlane T. (2011) Phylogenetic relations of European shrubby taxa of the genus *Usnea*. – Lichenologist 43: 427–444.

Schmitt I. & Lumbsch H. T. (2004) Molecular phylogeny of the *Pertusariaceae* supports secondary chemistry as an important systematic character set in lichen-forming ascomycetes. – Molecular Phylogenetics and Evolution 33: 43–55.

Schmitt I., Fankhauser J. D., Sweeney K., Spribille T., Kalb K. & Lumbsch H. T. (2010) Gyalectoid *Pertusaria* species form and sister-clade to *Coccotrema* (*Ostropomycetidae*, *Ascomycota*) and comprise the new lichen genus *Gyalectaria*. – Mycology 1: 75–83.

Schmitt I., Lumbsch H. T. & Søchting U. (2003) Phylogeny of the lichen genus *Placopsis* and its allies based on Bayesian analyses of nuclear and mitochondrial sequences. – Mycologia 95: 827–835.

**Schmitt I., Yamamoto Y. & Lumbsch H. T.** (2006) Phylogeny of *Pertusariales* (*Ascomycotina*): resurrection of *Ochrolechiaceae* and new circumscription of *Megasporaceae*. – Journal of the Hattori Botanical Laboratory100: 753–764.

Schmull M., Miadlikowska J., Pelzer M., Stocker-Wörgötter E., Hofstetter V., Fraker E., Hodkinson B. P., Reeb V., Kukwa M., Lumbsch H. T., Kauff F. & Lutzoni F. (2011) Phylogenetic affiliations of members of the heterogeneous lichen-forming fungi of the genus *Lecidea* sensu Zahlbruckner (*Lecanoromycetes*, *Ascomycota*). – Mycologia 103: 983–1003.

Sérusiaux E., Boom P. P. G. van den, Brand M. A., Coppins B. J. & Magain N. (2012) *Lecania falcata*, and new species from Spain, the Canary Islands and the Azores, close to *Lecania chlorotiza*. – Lichenologist 44: 577–590.

Sérusiaux E., Brand A. M., Motiejunaite J., Orange A. & Coppins B. J. (2010) *Lecidea doliiformis* belongs to *Micarea*, *Catillaria alba* to *Biatora*, and *Biatora ligni-mollis* occurs in Western Europe. – Bryologist 113: 333–344.

**Sérusiaux E., Villarreal A. J. C., Wheeler T. & Goffinet B.** (2011) Recent origin, active speciation and dispersal for the lichen genus *Nephroma* (*Peltigerales*) in Macaronesia. – Journal of Biogeography38: 1138–1151.

**Simon A., Lücking R., Moncada B., Mercado-Díaz J. A., Bungartz F., Cáceres M. E. S., Gumboski E. L., Martins S. M. A., Spielmann A., Parker D. & Goffinet B.** (2020) *Emmanuelia*, a new genus of lobarioid lichen-forming fungi (*Ascomycota*: *Peltigerales*): phylogeny and synopsis of accepted species. – Plant and Fungal Systematics65: 79–64.

Singh G., Dal Grande F., Divakar P. K., Otte J., Crespo A. & Schmitt I. (2017) Fungal–algal association patterns in lichen symbiosis linked to macroclimate. – New Phytologist 214: 317–329.

Singh G., Kukwa M., Dal Grande F., Łubek A., Otte J. & Schmitt I. (2019) A glimpse into genetic diversity and symbiont interaction patterns in lichen communities from areas with different disturbance histories in Białowieża forest, Poland. – Microorganisms 7: 335.

Sipman H. & Raus T. (2020) Lichens and lichenicolous fungi on the island Skiros, Aegean Sea, Greece. – Parnassiana Archives 8: 18–49.

Sipman H. J. M. & Aptroot A. (2020) *Ikaeria serusiauxii*, a new *Caloplaca*-like lichen from Macaronesia and mainland Portugal, with a lichen checklist for Porto Santo. – Plant and Fungal Systematics 65: 120–130.

Søchting U., Huneck S. & Etayo J. (2007) *Caloplaca epigaea* sp. nova from arid soil in Spain and dead grass in Germany. – In: Frisch A., Lange U. & Staiger B. (eds), Lichenologische Nebenstunden Contributions to lichen taxonomy and ecology in honour of Klaus Kalb, Bibliotheca Lichenologica 96, p. 279–286.

Søchting U., Søgaard M., Sancho L. & Arup U. (2021) The lichen genus *Villophora* (*Teloschistaceae*, *Ascomycota*). – Lichenologist 53: 245–255.

Šoun J. (2010) První nález *Calicium montanum* v České republice. – Bryonora 46: 19–23.

Šoun J., Bouda F., Kocourková J., Malíček J., Palice Z., Peksa O., Svoboda D. & Vondrák J. (2017) Zajímavé nálezy lišejníků z čeledi *Parmeliaceae* v České republice. – Bryonora 60: 46–64.

Šoun J., Vondrák J., Søchting U., Hrouzek P., Khodosovtsev A. & Arup U. (2011) Taxonomy and phylogeny of the *Caloplaca cerina* group in Europe. – Lichenologist 43: 113–135.

Spribille T. & Lumbsch H. T. (2010) A new species of *Elixia* (*Umbilicariales*) from Greece. – Lichenologist 42: 365–371.

Spribille T., Fryday A. M., Pérez-Ortega S., Svensson M., Tønsberg T., Ekman S., Holien H., Resl P., Schneider K., Stabentheiner E., Thüs H., Vondrák J. & Sharman L. (2020) Lichens and associated fungi from Glacier Bay National Park, Alaska. – Lichenologist 52: 61–181.

Spribille T., Resl P., Ahti T., Pérez-Ortega S., Tønsberg T., Mayrhofer H. & Lumbsch H. T. (2014) Molecular systematics of the wood-inhabiting, lichen-forming genus *Xylographa* (*Baeomycetales*, *Ostropomycetidae*) with eight new species. – Symbolae Botanicae Upsalienses 37: 1–87.

Starosta J. & Svoboda D. (2020) Genetic variability in the *Physconia muscigena* group (*Physciaceae*, *Ascomycota*) in the Northern Hemisphere. – Lichenologist 52: 305–317.

Steinová J., Holien H., Košuthová A. & Škaloud P. (2022) An exception to the rule? Could photobiont identity be and better predictor of lichen phenotype than mycobiont identity? – Journal of Fungi 8: 275.

Stelate A., Del-Prado R., Alors D., Tahiri H., Divakar P. K. & Crespo A. (2022) Resolving the phylogenetic relationship between *Parmotrema crinitum* and *Parmotrema perlatum* populations. – Lichenologist 54: 183–194.

Stenroos S., Huhtinen S., Lesonen A., Palice Z. & Printzen C. (2009) *Puttea*, gen. nov., erected for the enigmatic lichen *Lecidea margaritella*. – Bryologist 112: 544–557.

Stenroos S., Hyvönen J., Myllys L., Thell A. & Ahti T. (2002) Phylogeny of the genus *Cladonia* s.lat. (*Cladoniaceae*, *Ascomycetes*) inferred from molecular, morphological, and chemical data. – Cladistics 18: 237–278.

Stenroos S., Pino-Bodas R., Hyvönen J., Lumbsch H. T. & Ahti T. (2019) Phylogeny of the family *Cladoniaceae* (*Lecanoromycetes*, *Ascomycota*) based on sequences of multiple loci. – Cladistics 35: 351–384.

Suija A. & van den Boom P. P. G. (2023) Phylogenetic relationships, taxonomic novelties, and combinations within *Stictidaceae* (*Ostropales*, *Lecanoromycetes*, *Ascomycota*): focus on *Absconditella*. – Mycological Progress 22: 46.

**Tehler A., Ertz D. & Irestedt M.** (2013) The genus *Dirina* (*Roccellaceae*, *Arthoniales*) revisited. – Lichenologist 45: 427–476.

Thiyagaraja V., Ertz D., Lücking R., Wanasinghe D. N., Aptroot A., Cáceres M. E. S., Hyde K. D., Tapingkae W. & Cheewangkoon R. (2022) Taxonomic and phylogenetic reassessment of *Pyrgidium* (*Mycocaliciales*) and investigation of ascospore morphology. – Journal of Fungi 8: 966.

**Thiyagaraja V., Lücking R., Ertz D., Coppins B. J., Wanasinghe D. N., Karunarathna S. C., Suwannarach N., To-Anun C., Cheewangkoon R. & Hyde K. D.** (2021) Sequencing of the type species of *Arthopyrenia* places *Arthopyreniaceae* as and synonym of *Trypetheliaceae*. – Mycosphere 12: 993–1011.

**Thiyagaraja V., Lücking R., Ertz D., Wanasinghe D. N., Karunarathna S. C., Camporesi E. & Hyde K. D. (2020) Evolution of non-lichenized, saprotrophic species of *Arthonia* (*Ascomycota*, *Arthoniales*) and resurrection of *Naevia*, with notes on *Mycoporum*.** – **Fungal Diversity 102: 205–224.**

Tibell L. & Knutsson T. (2016) *Calicium episcalaris*, and new species from Sweden. – Symbolae Botanicae Upsalienses 38: 49–52.

Tibell L. & Koffman A. (2002) *Chaenotheca nitidula*, and new species of calicioid lichen from northeastern North America. – Bryologist 105: 353–357.

Tibell L. & Vinuesa M. (2005) *Chaenothecopsis* in and molecular phylogeny based on nuclear rDNA ITS and LSU sequences. – Taxon 54: 427–442.

Tibell L. (2001) Photobiont association and molecular phylogeny of the lichen genus *Chaenotheca*. – Bryologist 104: 191–198.

Tibell L. (2003) *Tholurna dissimilis* and generic delimitations in *Caliciaceae* inferred from nuclear ITS and LSU rDNA phylogenies (*Lecanorales*, lichenized ascomycetes). – Mycological Research 107: 1403–1418.

Tibell L. (2006) *Calicium* in the Indian Himalayas. – Journal of the Hattori Botanical Laboratory 100: 809–851.

Tibell L. (2007) *Cyphelium lucidum* new to Sweden. – Graphis Scripta 19: 48–52.

**Timdal E., Hofton T. H., Westberg M. & Bendiksby M.** (2021) The *Nephroma helveticum* complex (*Peltigerales*, lichenized *Ascomycota*) in the Nordic countries. – Graphis Scripta 33: 86–110.

Timdal E., Westberg M., Haugan R., Hofton T. H., Holien H., Speed J. D. M., Tønsberg T. & Bendiksby M. (2020) Integrative taxonomy reveals and new species, *Nephroma orvoi*, in the *N. parile* species complex (lichenized *Ascomycota*). – Graphis Scripta 32: 70–85.

Tripp E. A. & Lendemer J. C. (2019) Highlights from 10+ years of lichenological research in Great Smoky Mountains National Park: Celebrating the United States National Park Service Centennial. – Systematic Botany 44: 943–980.

Tuovila H., Davey M. L., Yan L., Huhtinen S. & Rikkinen J. (2014) New resinicolous *Chaenothecopsis* species from China. – Mycologia 106: 989–1003.

Tuovila H., Schmidt A. R., Beimforde C., Dörfelt H., Grabenhorst H. & Rikkinen J. (2012) Stuck in time – a new *Chaenothecopsis* species with proliferating ascomata from *Cunninghamia* resin and its fossil ancestors in European amber. – Fungal Diversity 58: 199–213.

Urbanavichus G., Vondrák J., Urbanavichene I., Palice Z. & Malíček J. (2020) Lichens and allied non-lichenized fungi of virgin forests in the Caucasus State Nature Biosphere Reserve (Western Caucasus, Russia). – Herzogia 33: 90–138.

van den Boom P. P. G., Brand A. M. & Suija A. (2015) A new species of *Absconditella* from western and central Europe with and key to the European members. – Phytotaxa 238: 271–277.

van den Boom P. P. G., Brand A. M., Coppins B. J. & Sérusiaux E. (2017) Two new species in the *Micarea prasina* group from Western Europe. – Lichenologist 49: 13–25.

Van den Broeck D., Frisch A., Razafindrahaja T., van de Vijver B. & Ertz D. (2018) Phylogenetic position of *Synarthonia* (lichenized *Ascomycota*, *Arthoniaceae*), with the description of six new species. – Plant Ecology and Evolution 151: 327–351.

**Vondrák J., Frolov I., Davydov E. A., Urbanavichene I., Chesnokov S., Zhdanov I., Muchnik E., Konoreva L., Himelbrant D. & Tchabanenko S.** (2016b) The extensive geographical range of several species of *Teloschistaceae*: evidence from Russia. – Lichenologist 48: 171–189.

Vondrák J., Frolov I., Davydov E. A., Yakovchenko L., Malíček J., Svoboda S. & Kubásek J. (2019) The lichen family *Teloschistaceae* in the Altai-Sayan region (Central Asia). – Phytotaxa 396: 1–66.

Vondrák J., Frolov I., Košnar J., Arup U., Veselská T., Halıcı G., Malíček J. & Søchting U. (2020) Substrate switches, phenotypic innovations and allopatric speciation formed taxonomic diversity within the lichen genus *Blastenia*. – Journal of Systematics and Evolution 135: 295–330.

Vondrák J., Halıcı M. G., Güllü M. & Demirel M. (2016a) Taxonomy of the genus *Athallia* and its diversity in Turkey. – Turkish Journal of Botany 40: 319–328.

**Vondrák J., Ismailov A. & Urbanavichus G.** (2017) Lichens of the family *Teloschistaceae* in Dagestan, an eastern part of the Caucasian biodiversity hot-spot. – Nova Hedwigia 104: 483–498.

Vondrák J., Khodosovtsev A., Šoun J. & Vondráková O. (2012) Two new European species from the heterogeneous *Caloplaca holocarpa* group (*Teloschistaceae*). – Lichenologist 44: 73–89.

Vondrák J., Malíček J., Palice Z., Bouda F., Berger F., Sanderson N., Acton A., Pouska V. & Kish R. (2018) Exploiting hot-spots; effective determination of lichen diversity in a Carpathian virgin forest. – PLoS ONE 13(9): e0203540.

Vondrák J., Svoboda S., Malíček J., Palice Z., Kocourková J., Knudsen K., Mayrhofer H., Thüs H., Schultz M., Košnar J. & Hofmeister J. (2022) From Cinderella to Princess: an exceptional hotspot of lichen diversity in and long-inhabited central-European landscape. – Preslia 94: 143–181.

**Weckesser M., Dornes A. P., Beck A., Popa F., Wieners M. & Scholler M.** (2021): Lichenisierte Pilze (Flechten). – In: Scholler M. & Poppa F. (eds), Die Pilze des ehemaligen Bannwalds Wilder See im Nationalpark Schwarzwald unter besonderer Berücksichtigung der mit Abies alba (Weiß-Tanne) vergesellschafteten Arten, Forschung im Nationalpark Schwarzwald, Band 1, p. 111–198, Nationalpark Schwarzwald.

Wedin M., Baloch E. & Grube M. (2002) Parsimony analyses of mtSSU an nITS rDNA sequences reveal the natural relationships of the lichen families *Physciaceae* and *Caliciaceae*. – Taxon 51: 655–660.

**Wedin M., Döring H. & Gilenstam G.** (2004) Saprotrophy and lichenization as options for the same fungal species on diffferent substrata: environmental plasticity and fungal lifestyles in the *Stictis-Conotrema* complex. – New Phytologist 164: 459–465.

**Wedin M., Döring H. & Gilenstam G.** (2006) *Stictis* s. lat. (*Ostropales*, *Ascomycotina*) in northern Scandinavia, with and key and notes on morphological variation in relation to lifestyle. – Mycological Research110: 773–789.

**Wedin M., Döring H., Könberg K. & Gilenstam G.** (2005) Generic delimitations in the family *Stictidaceae* (*Ostropales*, *Ascomycota*): the *Stictis-Conotrema* problem. – Lichenologist 37: 67–75.

**Wedin M., Jørgensen P. M. & Ekman S.**(2011) *Vahliellaceae*, a new family of cyanobacterial lichens (*Peltigerales*, *Ascomycetes*). – Lichenologist 43: 67–72.

Weerakoon G., Aptroot A., Lumbsch H. T., Wolseley P. A., Wijeyaratne S. C. & Gueidan C. (2012) New molecular data on *Pyrenulaceae* from Sri Lanka reveal two well-supported groups within this family. – Lichenologist 44: 639–647.

Westberg M. & Arup U. (2010) *Candelaria concolor* – and rare lichen in the Nordic countries. – Graphis Scripta 22: 38–42.

Westberg M., Arup U. & Kärnefelt I. (2007) Phylogenetic studies in the *Candelariaceae* (lichenized *Ascomycota*) based on nuclear ITS DNA sequence data. – Mycological Research 111: 1277–1284.

Wiklund E. & Wedin M. (2003) The phylogenetic relationships of the cyanobacterial lichens in the *Lecanorales* suborder *Peltigerineae*. – Cladistics 19: 419–431.

Yahr R. (2015) The status of the conservation priority species *Calicium corynellum* in the British Isles. – Lichenologist 47: 205–214.

Yakovchenko L., Vondrák J., Ohmura Y., Korchikov S. E., Vondráková O. S. & Davydov E. (2017) *Candelariella blastidiata* sp. nov. (*Ascomycota*, *Candelariaceae*) from Eurasia and North America, and a key for grey thalli *Candelariella*. – Lichenologist 49: 117–126.

Zahradníková M., Andersen H. L. & Tønsberg T. (2018) *Fuscidea lightfootii* and *F. pusilla* (*Fuscideaceae*, *Umbilicariomycetidae*, *Ascomycota*), two similar but genetically distinct species. – Lichenologist 50: 425–438.

Zahradníková M., Tønsberg T. & Andersen H. (2017) The taxonomy of the lichen *Fuscidea cyathoides* (*Fuscideaceae*, *Umbilicariomycetidae*, *Ascomycota*) in Europe. – Lichenologist 49: 547–560.

Zhang C., Aptroot A., Liu H.-J. & Jiang S.-H. (2020) Two new species of *Anisomeridium* (lichenized *Dothideomycetes*, *Ascomycota*) from China. – Phytotaxa 458: 167–172.