

- Šibík J. (ed.) (2010): Zaujímavější fytoecnologické zápisy. – Bulletin Slovenskej Botanickéj Spoločnosti 32: 282–285.
- Šibík J. (ed.) (2011): Zaujímavější fytoecnologické zápisy. – Bulletin Slovenskej Botanickéj Spoločnosti 33: 110–115.
- Šibík J. (ed.) (2012): Zaujímavější fytoecnologické zápisy. – Bulletin Slovenskej Botanickéj Spoločnosti 34: 114–119.

### Poděkování

Za pomoc při vyhledávání prací děkujeme M. Hájkovi, Z. Hradílkovi, I. Novotnému, T. Štechové a V. Horákové.

## NOVÁ LICHENOLOGICKÁ LITERATURA XXI.

### New lichenological literature, XXI

Zdeněk P a l i c e

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- Aguirre-Hudson B., Whitworth I. & Spooner B. M. (2011): J. M. Despréaux' lichens from the Canary Islands and West Africa: an account of a 19th century collection found in an English archive. – *Botanical Journal of the Linnean Society* 166: 185–211.
- Amo de Paz G., Cubas P., Divakar P. K., Lumbsch H. T. & Crespo A. (2011): Origin and diversification of major clades in parmelioid lichens (Parmeliaceae, Ascomycota) during the paleogene inferred by Bayesian analysis. – *Plos One* 6(12): e28161 [13 p.].
- Aptroot A. (2011): A new species of *Arthonia* is a pest in an orchid nursery. – *Lichenologist* 43: 193–197.
- Aptroot A. & Schumm F. (2011): Fruticose Roccellaceae – an anatomical-microscopical Atlas and Guide with a worldwide Key and further Notes on some crustose Roccellaceae or similar Lichens. – Books on Demand GmbH, Norderstedt. [374 pp.]
- Arcadia L. (2011): Notes on two early publications, and a remark on *Peterjamesia circumscripta*. – *Lichenologist* 43: 187–188.
- Armaleo D., Sun X. & Culberson C. (2011): Insights from the first putative biosynthetic gene cluster for a lichen depside and depsidone. – *Mycologia* 103: 741–754.
- Armstrong R. A. (2011): The biology of the crustose lichen *Rhizocarpon geographicum*. – *Symbiosis* 55: 53–67.
- Armstrong R. A. & Bradwell T. (2011): Growth of foliose lichens: a review. – *Symbiosis* 53: 1–16.
- Arup U. (2011): Contributions to the knowledge of *Caloplaca* in the Nordic countries. – *Graphis Scripta* 23: 10–20.
- Arup U. & Sandler Berlin E. (2011): A taxonomic study of *Melanelixia fuliginosa* in Europe. – *Lichenologist* 43: 89–97.
- Asplund J. (2011): Snails avoid the medulla of *Lobaria pulmonaria* and *L. scrobiculata* due to presence of secondary compounds. – *Fungal Ecology* 4: 356–358.
- Asplund J. (2011): Chemical races of *Lobaria pulmonaria* differ in palatability to gastropods. – *Lichenologist* 43: 491–494.
- Beckett R. P., Alyabyev A. J. & Minibayeva F. V. (2011): Patterns of heat production during desiccation and rehydration in lichens differing in desiccation tolerance. – *Lichenologist* 43: 178–183.
- Benatti M. N. (2011): A simple clearing technique to aid in the recognition of cilia and rhizinae structure in the Parmeliaceae. – *Opuscula Philolichenum* 9: 21–25.
- Berg A., Josefsson T. & Östlund L. (2011): Cutting of lichen trees: a survival strategy used before the 20th century in northern Sweden. – *Vegetation History and Archaeobotany* 20: 125–133.
- Bjelland T., Grube M., Hoem S., Jorgensen S. L., Daae F. L., Thorseth I. H. & Øvreås L. (2011): Microbial metacommunities in the lichen–rock habitat. – *Environmental Microbiology Reports* 3: 434–442.
- Bjerke J. W. (2011): Winter climate change: Ice encapsulation at mild subfreezing temperatures kills freeze-tolerant lichens. – *Environmental and Experimental Botany* 72: 404–408.

- Bjerke J. W., Bokhorst S., Zielke M., Callaghan T. V., Bowles F. W. & Phoenix G. K. (2011): Contrasting sensitivity to extreme winter warming events of dominant sub-Arctic heathland bryophyte and lichen species. – *Journal of Ecology* 99: 1481–1488.
- Boch S., Prati D., Werth S., Rüetschi J. & Fischer M. (2011): Lichen endozoochory by snails. – *Plos One* 6(4): e18770 [5 p.].
- Bomble F. W., Joussen N. & Wolgarten H. (2011): Bemerkenswerte und ehemals seltenere Großflechten im Aachener Stadtgebiet und der nordwestlichen Eifel. – *Online-Veröffentlichungen des Bochumer Botanischer Vereins* 3: 109–126.
- Boustie J., Tomasi S. & Grube M. (2011): Bioactive lichen metabolites: alpine habitats as an untapped source. – *Phytochemistry Reviews* 10: 287–307.
- Brackel von W. (2011): Lichenicolous fungi and lichens from Puglia and Basilicata (southern Italy). – *Herzogia* 24: 65–101.
- Branquinho C., Matos P., Vieira A. R. & Ramos M. M. P. (2011): The relative impact of lichen symbiotic partners to repeated copper uptake. – *Environmental and Experimental Botany* 72: 84–92.
- Bültmann H., Guderley E. & Zimmermann D. G. (2011): Rote Liste und Artenverzeichnis der Flechten und flechtenbewohnenden Pilze in Nordrhein-Westfalen, Stand Oktober 2011. – In: *Rote Liste der gefährdeten Pflanzen, Pilze und Tiere in Nordrhein-Westfalen, 4. Fassung, 2011. LANUV-Fachbericht 36, Band 1, p. 301–344, LANUV, Recklinghausen.*
- Caruso A., Rudolphi J. & Rydin H. (2011): Positive edge effects on forest-interior cryptogams in clear-cuts. – *Plos One* 6 (11): e27936 [8 p.].
- Casano L. M., del Campo E. M., García-Breijo F. J., Reig-Armiñana J., Gasulla F., del Hoyo A., Guéra A. & Barreno E. (2011): Two *Trebouxia* algae with different physiological performances are ever-present in lichen thalli of *Ramalina farinacea*. Coexistence versus Competition? – *Environmental Microbiology* 13: 806–818.
- Clerc P. (2011): Notes on the genus *Usnea* Adanson (lichenized Ascomycota). III. – *Bibliotheca Lichenologica* 106: 41–51.
- Cogoni A., Brundu G. & Zedda L. (2011): Diversity and ecology of terricolous bryophyte and lichen communities in coastal areas of Sardinia (Italy). – *Nova Hedwigia* 92: 159–175.
- Cordeiro L. M. C., Messias D., Sasaki G. L., Gorin P. A. J. & Iacomini M. (2011): Does aposymbiotically cultivated fungus *Ramalina* produce isolichenan? – *FEMS Microbiology Letters* 321: 50–57.
- Crespo A. & Lumbsch H. T. (2010): Cryptic species in lichen-forming fungi. – *IMA Fungus* 1: 167–170.
- Crespo A., Divakar P. K. & Hawksworth D. L. (2011): Generic concepts in parmelioid lichens, and the phylogenetic value of characters used in their circumscription. – *Lichenologist* 43: 511–535.
- Czarnota P. (2011): *Micarea contexta* and *M. lynceola* (lichenized Ascomycota), new for Poland. – *Polish Botanical Journal* 56: 307–313.
- Dakskobler I., Seliškar A. & Batič F. (2011): Distribution of *Letharia vulpina* (lichenized Ascomycetes) in the subalpine larch stands (*Rhodothamno-Laricetum*) in the eastern Julian Alps (Slovenia). – *Hacquetia* 10: 95–112.
- Del-Prado R., Divakar P. K. & Crespo A. (2011): Using genetic distances in addition to ITS molecular phylogeny to identify potential species in the *Parmotrema reticulatum* complex: a case study. – *Lichenologist* 43: 569–583.
- Diederich P. & van den Boom P. (2011): *Verrucaria breussii*, a new name for *Verrucaria sorbinea* Breuss. – *Herzogia* 24: 145–146.
- Dietrich M. (2010): Die baumbewohnenden, sorediösen Krustenflechten im Kanton Luzern (Zentralschweiz): Artenvielfalt und Gefährdung – *Cliostomum flavidulum* Hafellner & Kalb neu für die Schweiz. – *Meylania* 44: 21–30.
- Dymytrova L. V. (2011): Notes on the genus *Scoliciosporum* (Lecanorales, Ascomycota) in Ukraine. – *Polish Botanical Journal* 56: 61–75.
- Eisenreich W., Knispel N. & Beck A. (2011): Advanced methods for the study of the chemistry and the metabolism of lichens. – *Phytochemistry Reviews* 10: 445–456.
- Ellis C. J., Yahr R. & Coppins B. J. (2011): Archaeobotanical evidence for a massive loss of epiphyte species richness during industrialisation in southern England. – *Proceedings of the Royal Society B* 278: 3482–3489.
- Ertz D., Bungartz F., Diederich P. & Tibell L. (2011): Molecular and morphological data place *Blarneya* in *Tylophoron* (Arthoniaceae). – *Lichenologist* 43: 345–356.
- Etayo J. & Puntillo D. (2011): *Pyrenula relictata* sp. nov. (Pyrenulales, Ascomycotina), a new European lichen species. – *Flora Mediterranea* 21: 243–246.
- Farkas E. (2011): Notes and schedae to Lichenes Delicati Exsiccati Editae in memoriam Antonín Vězda (1920–2008), Fasc. 2. – *Acta Botanica Hungarica* 53: 101–109.

- Fedrowitz K., Kaasalainen U. & Rikkinen J. (2011): Genotype variability of *Nostoc* symbionts associated with three epiphytic *Nephroma* species in a boreal forest landscape. – *Bryologist* 114: 220–230.
- 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-Mendoza F., Domaschke S., García M. A., Jordan P., Martín M. P. & Printzen C. (2011): Population structure of mycobionts and photobionts of the widespread lichen *Cetraria aculeata*. – *Molecular Ecology* 20: 1208–1232.
- Frahm J.-P., Schumm F. & Stapper N. J. (2010): Epiphytische Flechten als Umweltgütezeiger. – Books on Demand, Norderstedt [164 pp.]
- Freitag S., Hogan E. J., Crittenden P. D., Allison G. G. & Thain S. C. (2011): Alterations in the metabolic fingerprint of *Cladonia portentosa* in response to atmospheric nitrogen deposition. – *Physiologia Plantarum* 143: 107–114.
- Fryday A. M. (2011): How should we deal with the Antarctic and Subantarctic taxa published by Carroll William Dodge? – *Opuscula Philolichenum* 9: 89–98.
- Galanina I. A., Yakovchenko L. S., Tsarenko N. S. & Spribille T. (2011): Notes on *Rinodina excrescens* in the Russian Far East (Physciaceae, lichenized Ascomycota). – *Herzogia* 24: 59–64.
- Gagarina L. V. (2011): *Gyalecta titovii*, a new corticolous lichen species from Abkhazia and Russia. – *Annales Botanici Fennici* 48: 499–502.
- Garty J. & Garty-Spitz R. L. (2011): Neutralization and neoformation: Analogous processes in the atmosphere and in lichen thalli – A review. – *Environmental and Experimental Botany* 70: 67–79.
- Gaya E., Redelings B. D., Navarro-Rosinés P., Llimona X., De Cáceres M. & Lutzoni F. (2011): Align, or not to align? Resolving species complexes within the *Caloplaca saxicola* group as a case study. – *Mycologia* 103: 361–378.
- Giralt M., Bungartz F. & Elix J. A. (2011): The identity of *Buellia sequax*. – *Mycological Progress* 10: 115–119.
- Giralt M. & Clerc P. (2011): *Tetramelas thiopolizus* comb. nov. with a key to all known species of *Tetramelas*. – *Lichenologist* 43: 417–425.
- Goudie R. I., Scheidegger C., Hanel C., Munier A. & Conway E. (2011): New population models help explain declines in the globally rare boreal felt lichen *Erioderma pedicellatum* in Newfoundland. – *Endangered Species Research* 13: 181–189.
- Green T. G. A., Sancho L. G. & Pintado A. (2011): Ecophysiology of desiccation/rehydration cycles in mosses and lichens. – In: Luttge U. et al. (eds), *Plant Desiccation Tolerance*, Ecological Studies 215, Part 2, p. 89–120, Springer-Verlag, Berlin & Heidelberg.
- Green T. G. A., Sancho L. G., Türk R., Seppelt R. D. & Hogg I. D. (2011): High diversity of lichens at 84°S, Queen Maud Mountains, suggests preglacial survival of species in the Ross Sea region, Antarctica. – *Polar Biology* 34: 1211–1220.
- Hachulka M. (2011): Freshwater lichens on submerged stones and alder roots in the Polish lowlands. – *Acta Mycologica* 46: 233–244.
- Hafellner J. & Bilovitz P. O. (2011): Tag der Artenvielfalt – Flechten und lichenicole Pilze im Botanischen Garten Graz (Österreich). – *Mitteilungen des Naturwissenschaftlichen Vereines für Steiermark* 141: 185–191.
- Hamlett C. A. E., Shirtcliffe N. J., Pyatt F. B., Newton M. I., McHale G. & Koch K. (2011): Passive water control at the surface of a superhydrophobic lichen. – *Planta* 234: 1267–1274.
- Härdtle W. & von Oheimb G. (2010): Beziehungen zwischen Struktur und Kryptogamenflora von unbewirtschafteten und bewirtschafteten Buchenwäldern im nordostdeutschen Tiefland. – *Drosera* 2009: 45–53.
- Hauck M. (2011): Eutrophication threatens the biochemical diversity in lichens. – *Lichenologist* 43: 147–154.
- Hauck M. (2011): Site factors controlling epiphytic lichen abundance in northern coniferous forests. – *Flora* 206: 81–90.
- Hautala H., Laaka-Lindberg S. & Vanha-Majamaa I. (2011): Effects of retention felling on epixylic species in boreal spruce forests in southern Finland. – *Restoration Ecology* 19: 418–429.
- Hawksworth D. L., Divakar P. K., Crespo A. & Ahti T. (2011): The checklist of parmelioid and similar lichens in Europe and some adjacent territories: additions and corrections. – *Lichenologist* 43: 639–645.
- Hawksworth D. L., Santesson R. & Tibell L. (2011): *Racoleus*, a new genus of sterile filamentous lichen-forming fungi from the tropics, with observations on the nomenclature and typification of *Cystocoleus* and *Racodium*. – *IMA Fungus* 2: 71–79.

- Heber U., Soni V. & Strasser R. J. (2011): Photoprotection of reaction centers: thermal dissipation of absorbed light energy vs charge separation in lichens. – *Physiologia Plantarum* 142: 65–78.
- Hestmark G., Miadlikowska J., Kauff F., Fraker E., Molnar K. & Lutzoni F. (2011): Single origin and subsequent diversification of central Andean endemic *Umbilicaria* species. – *Mycologia* 103: 45–56.
- Hilmo O., Ely-Aastrup H., Hytteborn H. & Holien H. (2011): Population characteristics of old forest associated epiphytic lichens in *Picea abies* plantations in the boreal rainforest of Central Norway. – *Canadian Journal of Forest Research* 41: 1743–1753.
- Hilmo O., Rocha L., Holien H. & Gauslaa Y. (2011): Establishment success of lichen diaspores in young and old boreal rainforests: a comparison between *Lobaria pulmonaria* and *L. scrobiculata*. – *Lichenologist* 43: 241–255.
- Hodkinson B. P. & Lendemer J. C. (2011): The orders of Ostropomycetidae (Lecanoromycetes, Ascomycota): Recognition of Sarrameanales and Trapeliales with a request to retain Pertusariales over Agryiales. – *Phytologia* 93: 407–412.
- Høistad F. & Gjerde I. (2011): *Lobaria pulmonaria* can produce mature ascospores at an age of less than 15 years. – *Lichenologist* 43: 495–497.
- Horstkotte T., Moen J., Lämås T. & Helle T. (2011): The legacy of logging—estimating arboreal lichen occurrence in a boreal multiple-use landscape on a two century scale. – *Plos One* 6(12): e28779 [11 p.].
- Jettestuen E., Neramoen A., Hestmark G., Timdal E. & Mathiesen J. (2010): Competition on the rocks: community growth and tessellation. – *Plos One* 5(9): e12820 [5 p.].
- Johansson O., Olofsson J., Giesler R. & Palmqvist K. (2011): Lichen responses to nitrogen and phosphorus additions can be explained by the different symbiont responses. – *New Phytologist* 191: 795–805.
- Johnson C. J., Bennett J. P., Biro S. M., Duque-Velasquez J. C., Rodriguez C. M., Bessen R. A. & Rocke T. E. (2011): Degradation of the disease-associated prion protein by a serine protease from lichens. – *Plos One* 6(5): e19836 [12 p.].
- Joneson S., Armaleo D. & Lutzoni F. (2011): Fungal and algal gene expression in early developmental stages of lichen-symbiosis. – *Mycologia* 103: 291–306.
- Jönsson M. T., Thor G. & Johansson P. (2011): Environmental and historical effects on lichen diversity in managed and unmanaged wooded meadows. – *Applied Vegetation Science* 14: 120–131.
- Jüriado I., Liira J., Csencsics D., Widmer I., Adolf C., Kohv K. & Scheidegger C. (2011): Dispersal ecology of the endangered woodland lichen *Lobaria pulmonaria* in managed hemiboreal forest landscape. – *Biodiversity and Conservation* 20: 1803–1819.
- 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 a floristic context. – *New Phytologist* 191: 288–300.
- Knudsen K., Lendemer J. C. & Harris R. C. (2011): Studies in lichens and lichenicolous fungi – no 15: miscellaneous notes on species from eastern North America. – *Opuscula Philolichenum* 9: 45–75.
- Kościelniak R. (2010): Monitoring bioty porostów w Bieszczadzkim Parku Narodowym. – *Roczniki Bieszczadzkie* 18: 306–311.
- Kościelniak R. (2011): Nowe i rzadkie gatunki porostów (Lichenes) w Bieszczadzkim Parku Narodowym i jego otulinie – Część XI. – *Roczniki Bieszczadzkie* 19: 161–164.
- Kościelniak R. & Kozik J. (2010): *Evernia divaricata* (Parmeliaceae) w polskich Karpatach. – *Roczniki Bieszczadzkie* 18: 414–418.
- Kossowska M. (2011): New, rare and noteworthy lichens in the Giant Mountains. – *Biologia* 66: 755–761.
- Kowalski M., Hausner G. & Piercey-Normore M. D. (2011): Bioactivity of secondary metabolites and thallus extracts from lichen fungi. – *Mycoscience* 52: 413–418.
- Kubiak D. (2010): *Rinodina degeliana*: a corticolous lichen species overlooked in Poland. – *Acta Mycologica* 45: 115–120.
- Kubiak D. (2011): Distribution and ecology of the lichen *Fellhanera gyrophorica* in the Pojezierze Olsztyńskie Lakeland and its status in Poland. – *Acta Societatis Botanicorum Poloniae* 80: 293–300.
- Kubiak D. & Westberg M. (2011): First records of *Candelariella efflorescens* (lichenized Ascomycota) in Poland. – *Polish Botanical Journal* 56: 315–319.
- Kukwa M. (2011): The lichen genus *Ochrolechia* in Europe. – Fundacja Rozwoju Uniwersytetu Gdańskiego, Gdańsk. [309 pp.]
- Kulikova N. N., Suturin A. N., Saibatalova E. V., Boiko S. M., Vodneva E. N., Timoshkin O. A. & Lishtva A. V. (2011): Geologic and biogeochemical role of crustose aquatic lichens in Lake Baikal. – *Geochemistry International* 49: 66–75.

- Lakatos M. (2011): Lichens and Bryophytes: Habitats and Species. – In: Lüttge U. et al. (eds), Plant Desiccation Tolerance, Ecological Studies 215, p. 65–87, Springer-Verlag Berlin Heidelberg.
- Lamit L. J., Bowker M. A., Holeski L. M., Reese Næsborg R., Wooley S. C., Zinkgraf M., Lindroth R. L., Whitham T. G. & Gehring C. A. (2011): Genetically-based trait variation within a foundation tree species influences a dominant bark lichen. – *Fungal Ecology* 4: 103–109.
- Larsson P. & Gauslaa Y. (2011): Rapid juvenile development in old forest lichens. – *Botany* 89: 65–72.
- Leavitt S. D., Fankhauser J. D., Leavitt D. H., Porter L. D., Johnson L. A. & St. Clair L. L. (2011): Complex patterns of speciation in cosmopolitan „rock posy“ lichens – Discovering and delimiting cryptic fungal species in the lichen-forming *Rhizoplaca melanophthalma* species-complex (Lecanoraceae, Ascomycota). – *Molecular Phylogenetics and Evolution* 59: 587–602.
- Leavitt S. D., Johnson L. & St. Clair L. L. (2011): Species delimitation and evolution in morphologically and chemically diverse communities of the lichen-forming genus *Xanthoparmelia* (Parmeliaceae, Ascomycota) in western North America. – *American Journal of Botany* 98: 175–188.
- Legaz M. E., de Armas R. & Vicente C. (2011): Bioproduction of depsidones for pharmaceutical purposes. – In: Rundfeldt C. (ed.), Drug development – a case study based insight into modern strategies, p. 487–508, InTech.
- Lendemmer J. C. (2011): A review of the morphologically similar species *Fuscidea pusilla* and *Ropalospora viridis* in eastern North America. – *Opuscula Philolichenum* 9: 11–20.
- Lendemmer J. C. (2011): A standardized morphological terminology and descriptive scheme for *Lepraria* (Stereocaulaceae). – *Lichenologist* 43: 379–399.
- Lendemmer J. C. & Knudsen K. (2011): Studies in lichens and lichenicolous fungi: 7. More notes on taxa from North America. – *Mycotaxon* 115: 45–52.
- Lendemmer J. C. & O'Brien H. (2011): How do you reconcile molecular and non-molecular datasets? A case study where new molecular data prompts a revision of *Peltigera hydrothyria* s. l. in North America and the recognition of two species. – *Opuscula Philolichenum* 9: 99–110.
- Leppik E., Jüriado I. & Liira J. (2011): Changes in stand structure due to the cessation of traditional land use in wooded meadows impoverish epiphytic lichen communities. – *Lichenologist* 43: 257–274.
- Liao C., Piercey-Normore M. D., Sorensen J. L. & Gough K. (2010): In situ imaging of usnic acid in selected *Cladonia* spp. by vibrational spectroscopy. – *Analyst* 135: 3242–3248.
- Lisewski V. & Ellis C. J. (2011): Lichen epiphyte abundance controlled by the nested effect of woodland composition along macroclimatic gradients. – *Fungal Ecology* 4: 241–249.
- Lõhmus A. & Lõhmus P. (2011): Old-forest species: the importance of specific substrata vs. stand continuity in the case of calicioid fungi. – *Silva Fennica* 45: 1015–1039.
- Loppi S. & Baragatti E. (2011): Influence of the health status of pine trees on the diversity of epiphytic lichens. – *Nova Hedwigia* 93: 201–210.
- Lücking R., Schulz K., Crespo A., Nash T. H. & Lumbsch H. T. (2011): The Encyclopedia of Life (EOL) as a scientific resource and outreach medium applied to the lichen family Parmeliaceae (Ascomycota: Lecanorales). – *Lichenologist* 43: 503–510.
- Lumbsch H. T. & Leavitt S. D. (2011): Goodbye morphology? A paradigm shift in the delimitation of species in lichenized fungi. – *Fungal Diversity* 50: 59–72.
- Lumbsch H. T. & Wirtz N. (2011): Phylogenetic relationships of the neuropogonoid core group in the genus *Usnea* (Ascomycota: Parmeliaceae). – *Lichenologist* 43: 553–559.
- Marmor L., Tõrra T., Leppik E., Saag L. & Randlane T. (2011): Epiphytic lichen diversity in Estonian and Fennoscandian old coniferous forests. – *Folia Cryptogamica Estonica* 48: 31–43.
- Marmor L., Tõrra T., Saag L. & Randlane T. (2011): Effects of forest continuity and tree age on epiphytic lichen biota in coniferous forests in Estonia. – *Ecological Indicators* 11: 1270–1276.
- Matteucci E., Isocrono D. & Piervittori R. (2010): Epiphytic lichen diversity in chestnut woods. – *Acta Horticulturae* 866: 65–72.
- Matthews J. A. & Trenbith H. E. (2011): Growth rate of a very large crustose lichen (*Rhizocarpon* subgenus) and its implications for lichenometry. – *Geografiska Annaler* 93A(1): 27–39.
- Matwiejuk A. (2011): Lichens of the cemeteries in Białystok (north-eastern Poland). – *Roczniki Akademii Rolniczej w Poznaniu CCCLXXXVIII, Botanika – Steciana* 13: 49–56.
- McCune B. & Printzen C. (2011): Distribution and climatic niches of the *Lecanora varia* group in western U.S.A. – *Bibliotheca Lichenologica* 106: 225–234.
- Meysurova A. F., Khizhnyak S. D. & Pakhomov P. M. (2011): IR spectroscopic study of the chemical composition of epiphytic lichens. – *Journal of Applied Spectroscopy* 78: 711–718.

- Meysurova A. F., Khizhnyak S. D. & Pakhomov P. M. (2011): Toxic effect of nitrogen and sulfur dioxides on the chemical composition of *Hypogymnia physodes* (L.) Nyl.: IR spectroscopic analysis. – Contemporary Problems of Ecology 4: 186–194.
- Miadlikowska J., Schoch C. L., Kageyama S. A., Molnar K., Lutzoni F. & McCune B. (2011): *Hypogymnia* phylogeny, including *Cavernularia*, reveals biogeographic structurefull access. – Bryologist 114: 392–400.
- Moberg R. (2011): The lichen genus *Heterodermia* (Physciaceae) in South America – a contribution including five new species. – Nordic Journal of Botany 29: 129–143.
- Molina M. C., Del-Prado R., Divakar P. K., Sánchez-Mata D. & Crespo A. (2011): Another example of cryptic diversity in lichen-forming fungi: the new species *Parmelia mayi* (Ascomycota: Parmeliaceae). – Organisms Diversity & Evolution 11: 331–342.
- Molina M. C., Divakar P. K., Millanes A. M., Sánchez E., Del-Prado R. Hawksworth D. L. & Crespo A. (2011): *Parmelia sulcata* (Ascomycota: Parmeliaceae), a sympatric monophyletic species complex. – Lichenologist 43: 585–601.
- Molnár K. & Farkas E. (2011): Depsides and depsidones in populations of the lichen *Hypogymnia physodes* and its genetic diversity. – Annales Botanici Fennici 48: 473–482.
- Motiejūnaitė J., Brackel von W., Stončius D. & Preikša Ž. (2011): Contribution to the Lithuanian flora of lichens and allied fungi. III. – Botanica Lithuanica 17: 39–46.
- Muggia L., Baloch E., Stabentheiner E., Grube M. & Wedin M. (2011): Photobiont association and genetic diversity of the optionally lichenized fungus *Schizoxylon albescens*. – FEMS Microbiology Ecology 75: 255–272.
- Muggia L., Nelson P., Wheeler T., Yakovchenko L. S., Tønsberg T. & Spribille T. (2011): Convergent evolution of a symbiotic duet: the case of the lichen genus *Polychidium* (Peltigerales, Ascomycota). – American Journal of Botany 98: 1647–1656.
- Myllys L., Velmala S., Holien H., Halonen P., Wang L. S. & Goward T. (2011): Phylogeny of the genus *Bryoria*. – Lichenologist 43: 613–638.
- Nelsen M. P., Chavez N., Sackett-Hermann E., Thell A., Randle T., Divakar P. K., Rico V. J. & Lumbsch H. T. (2011): The cetrarioid core group revisited (Lecanorales: Parmeliaceae). – Lichenologist 43: 537–551.
- Nelsen M. P., Lücking R., Mbatchou J. S., Andrew C. J., Spielmann A. A. & Lumbsch H. T. (2011): New insights into relationships of lichen-forming Dothideomycetes. – Fungal Diversity 51: 155–162.
- Nelsen M. P., Rivas Plata E., Andrew C. J., Lücking R. & Lumbsch H. T. (2011): Phylogenetic diversity of Trentepohlialean algae associated with lichen-forming fungi. – Journal of Phycology 47: 282–290.
- Nordin A., Owe-Larsson B. & Tibell L. (2011): Two new *Aspicilia* species from Fennoscandia and Russia. – Lichenologist 43: 27–37.
- Núñez-Zapata J., Divakar P. K., Del-Prado R., Cubas P., Hawksworth D. L. & Crespo A. (2011): Conundrums in species concepts: the discovery of a new cryptic species segregated from *Parmelina tiliacea* (Ascomycota: Parmeliaceae). – Lichenologist 43: 603–616.
- Nybakken L., Sandvik S. M. & Klanderud K. (2011): Experimental warming had little effect on carbon-based secondary compounds, carbon and nitrogen in selected alpine plants and lichens. – Environmental and Experimental Botany 72: 368–376.
- Ochoa-Hueso R. & Manrique E. (2011): Effects of nitrogen deposition and soil fertility on cover and physiology of *Cladonia foliacea* (Huds.) Willd., a lichen of biological soil crusts from Mediterranean Spain. – Environmental Pollution 159: 449–457.
- Olofsson A., Danell Ö., Forslund P. & Åhman B. (2011): Monitoring changes in lichen resources for range management purposes in reindeer husbandry. – Ecological Indicators 11: 1149–1159.
- Oset M. & Kukwa M. (2010): The lichen genus *Pertusaria* in Poland I. *P. multipuncta* and *P. ophthalmiza*. – Acta Mycologica 45: 231–238.
- Osyczka P. & Skubała K. (2011): Chemical races of *Cladonia cariosa* and *C. symphyarpa* (lichenized Ascomycota) – a Polish case study in a worldwide context. – Nova Hedwigia 93: 363–373.
- Otálora M. G., Martínez I., Belinchón R., Widmer I., Aragón G., Escudero A. & Scheidegger C. (2011): Remnants fragments preserve genetic diversity of the old forest lichen *Lobaria pulmonaria* in a fragmented Mediterranean mountain forest. – Biodiversity and Conservation 20: 1239–1254.
- Paltto H., Nordberg A., Nordén B. & Snäll T. (2011): Development of secondary woodland in oak wood pastures reduces the richness of rare epiphytic lichens. – Plos One 6(9): e24675 [8 p.].
- Papong K., Kantvilas G. & Lumbsch H. T. (2011): Morphological and molecular evidence places *Maronina* into synonymy with *Protoparmelia* (Ascomycota: Lecanorales). – Lichenologist 43: 561–567.
- Paukov A. G. (2009): The lichen flora of serpentine outcrops in the Middle Urals of Russia. – Northeastern Naturalist 16 (Special Issue 5): 341–350.

- Piccotto M., Bidussi M. & Tretiach M. (2011): Effects of the urban environmental conditions on the chlorophyll a fluorescence emission in transplants of three ecologically distinct lichens. – *Environmental and Experimental Botany* 73: 102–107.
- Piercey-Normore M. D. & Deduke C. (2011): Fungal farmers or algal escorts: lichen adaptation from the algal perspective. – *Molecular Ecology* 20: 3708–3710.
- Pino-Bodas R., Burgaz A. R., Martín M. P. & Lumbsch H. T. (2011): Phenotypical plasticity and homoplasmy complicate species delimitation in the *Cladonia gracilis* group (Cladoniaceae, Ascomycota). – *Organisms Diversity & Evolution* 11: 343–355.
- Potenza G. & Fascetti S. (2010): *Lobarion* as indicator of ancient forest in the Appennino Lucano (Basilicata – Southern Italy). – *Italian Journal of Forest and Mountain Environments* 65: 765–774.
- Puntillo D. (2011): Some lichens and lichenicolous fungi new to Italy and to Calabria. – *Flora Mediterranea* 21: 309–316.
- Purvis O. W., Bennett J. P. & Spratt J. (2011): 169Copper localization, elemental content, and thallus colour in the copper hyperaccumulator lichen *Lecanora sierrae* from California. – *Lichenologist* 43: 165–173.
- Raggio J., Pintado A., Ascaso C., de la Torre R., De Los Ríos A., Wierchos J., Horneck G. & Sancho L. G. (2011): Whole lichen thalli survive exposure to space conditions: results of lithopanspermia experiment with *Aspicilia fruticulosa*. – *Astrobiology* 11: 281–292.
- Ravera S., Genovesi V., Falasca A., Marchetti M. & Chirici G. (2010): Lichen diversity of old growth forests in Molise (Central-Southern Italy). – *Italian Journal of Forest and Mountain Environments* 65: 505–517.
- Ravera S., Nimis P. L., Brunialti G., Frati L., Isocrono D., Martellos S., Munzi S., Nascimbene J., Potenza G. & Tretiach M. (2011): The role of lichens in selecting important plant areas in Italy. – *Fitosociologia* 48, Suppl. 1: 145–153.
- Riddell J., Jovan S., Padgett P. E. & Sweat K. (2011): Tracking lichen community composition changes due to declining air quality over the last century: the Nash legacy in southern California. – *Bibliotheca Lichenologica* 106: 263–277.
- Rivas Plata E. & Lumbsch H. T. (2011): Parallel evolution and phenotypic divergence in lichenized fungi: A case study in the lichen-forming fungal family Graphidaceae (Ascomycota: Lecanoromycetes: Ostropales). – *Molecular Phylogenetics and Evolution* 61: 45–63.
- 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.
- Rodrigues S. A., Terrón-Alfonso A., Elix J. A., Pérez-Ortega S., Tønsberg T., Fernández-Salegui A. B. & Soares A. M. V. M. (2011): *Lecanora sorediomarginata*, a new epiphytic lichen species discovered along the Portuguese coast. – *Lichenologist* 43: 99–111.
- Roullier C., Chollet-Krugler M., Pferschy-Wenzig E.-M., Maillard A., Rechberger G. N., Legouin-Gargadennec B., Bauer R. & Boustie J. (2011): Characterization and identification of mycosporines-like compounds in cyanolichens. Isolation of mycosporine hydroxyglutamicol from *Nephroma laevigatum* Ach. – *Phytochemistry* 72: 1348–1357.
- Roux C., Masson D., Bricaud O., Coste C. & Poumarat S. (2011): Flore et végétation des lichens et champignons lichénicoles de quatre réserves naturelles des Pyrénées-Orientales (France). – *Bulletin de la Société Linnéenne de Provence* 14: 3–151.
- Rudolphi J. & Gustafsson L. (2011): Forests regenerating after clear-cutting function as habitat for bryophyte and lichen species of conservation concern. – *PLoS ONE* 6(4): e18639 [9 p.].
- Saag L., Tõrra T., Saag A., Del-Prado R. & Randle T. (2011): Phylogenetic relations of European shrubby taxa of the genus *Usnea*. – *Lichenologist* 43: 427–444.
- Sancho L. G., Palacios D., Green T. G. A., Vivas M. & Pintado A. (2011): Extreme high lichen growth rates detected in recently deglaciated areas in Tierra del Fuego. – *Polar Biology* 34: 813–822.
- Sangvichien E., Hawksworth D. L. & Whalley A. J. S. (2011): Ascospore discharge, germination and culture of fungal partners of tropical lichens, including the use of a novel culture technique. – *IMA Fungus* 2: 143–153.
- Schiefelbein U. (2011): Distribution and ecology of the lichen *Thelomma ocellatum* (Caliciaceae) in Pomerania and the world. – *Plant Diversity and Evolution* 129: 241–251.
- Schmitt I. (2011): Fruiting body evolution in the Ascomycota: a molecular perspective integrating lichenized and non-lichenized groups. – In: Pöggeler S. & Wöstemeyer J. (eds), *Evolution of fungi and fungal-like organisms*, The Mycota XIV, p. 187–204, Springer-Verlag, Berlin – Heidelberg.
- 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.

- Schneider T., Schmid E., de Castro Jr. J. V., Cardinale M., Eberl L., Grube M., Berg G. & Riedel K. (2011): Structure and function of the symbiosis partners of the lung lichen (*Lobaria pulmonaria* L. Hoffm.) analyzed by metaproteomics. – *Proteomics* 11: 2752–2756.
- Schroeter B., Green T. G. A., Pannewitz S., Schlenzog M. & Sancho L. G. (2011): Summer variability, winter dormancy: lichen activity over 3 years at Botany Bay, 77°S latitude, continental Antarctica. – *Polar Biology* 34: 13–22.
- Schumm F. (2011): Kalkflechten der Schwäbischen Alb – ein mikroskopisch anatomischer Atlas. – Books on Demand GmbH, Norderstedt. [416 pp.]
- Şenkardeşler A. & Calba O. F. (2011): New lichen records from Turkey – 2: *Aspicilia*, *Protoparmeliopsis*, and *Ramalina*. – *Mycotaxon*, 115: 263–270.
- 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 Biogeography* 38: 1138–1151.
- Sipman H. J. M. & Ahti T. (2011): Contribution to the *Cladonia* mycota of Greece, including *Cladonia graeca* sp. nov. – *Mycosystema* 30: 877–880.
- Śliwa L. (2010): Contribution to the lichen biota of the Pogórze Wiśnickie foothills (Carpathians). – *Acta Mycologica* 45: 219–230.
- Śliwa L. & Flakus A. (2011): *Lecanora microloba*, a new saxicolous species from Poland. – *Lichenologist* 43: 1–6.
- Sonesson M., Grimberg A., Sveinbjörnsson B. & Carlsson B. A. (2011): Seasonal variation in concentrations of carbohydrates and lipids in two epiphytic lichens with contrasting, snow-depth related distribution on subarctic birch trees. – *Bryologist* 114: 443–452.
- Spagnuolo V., Zampella M., Giordano S. & Adamo P. (2011): Cytological stress and element uptake in moss and lichen exposed in bags in urban area. – *Ecotoxicology and Environmental Safety* 74: 1434–1443.
- Spribile T., Pérez-Ortega S., Tønsberg T. & Schirokauer D. (2010): Lichens and lichenicolous fungi of the Klondike Gold Rush National Historic Park, Alaska, in a global biodiversity context. – *Bryologist* 113: 439–515.
- Spribile T., Goffinet B., Klug B., Muggia L., Obermayer W. & Mayrhofer H. (2011): Molecular support for the recognition of the *Mycoblastus fucatus* group as the new genus *Violella* (Tephromelataceae, Lecanorales). – *Lichenologist* 43: 445–466.
- Spribile T., Klug B. & Mayrhofer H. (2011): A phylogenetic analysis of the boreal lichen *Mycoblastus sanguinarius* (Mycoblastaceae, lichenized Ascomycota) reveals cryptic clades correlated with fatty acid profiles. – *Molecular Phylogenetics and Evolution* 59: 603–614.
- Stapper N. J., Franzen-Reuter I. & Frahm J.-P. (2011): Epiphytische Flechten als Wirkungsindikatoren für Klimaveränderungen im Raum Düsseldorf. – *Gefahrstoffe – Reinhaltung der Luft* 71: 173–178.
- Stepanchikova I. S., Himelbrant D. E., Kukwa M. & Kuznetsova E. S. (2011): New records of lichens and allied fungi from the Leningrad Region, Russia. II. – *Folia Cryptogamica Estonica* 48: 85–94.
- Stepanchikova I. S., Schiefelbein U., Alexeeva N. M., Ahti T., Kukwa M., Himelbrant D. E. & Pykälä J. (2011): Additions to the lichen biota of Berezovye Islands, Leningrad Region, Russia. – *Folia Cryptogamica Estonica* 48: 95–106.
- Svensson M. & Thor G. (2011): *Micarea capitata*, a new bryophilous lichen from Sweden. – *Lichenologist* 43: 401–405.
- Temina M., Levitsky D. O. & Dembitsky V. M. (2010): Chemical constituents of the epiphytic and lithophilic lichens of the genus *Collema*. – *Records of Natural Products* 4: 79–86.
- Thell A. & Moberg R. [eds] (2011): Nordic Lichen Flora. Volume 4: Parmeliaceae. – NLF, Museum of Evolution, Uppsala. [184 pp.]
- Thüs H., Muggia L., Pérez-Ortega S., Favero-Longo S. E., Joneson S., O'Brien H., Nelsen M. P., Duque-Thüs R., Grube M., Friedl T., Brodie J., Andrew C. J., Lücking R., Lutzoni F. & Gueidan C. (2011): Revisiting photobiont diversity in the lichen family Verrucariaceae (Ascomycota). – *European Journal of Phycology* 46: 399–415.
- Türk R. & Hafellner J. (2010): Nachtrag zur Bibliographie der Flechten in Österreich. – Verlag der Österreichischen Akademie der Wissenschaften (Biosystematics and Ecology series 27), Wien. [381 pp.]
- Urbanavichus G. & Urbanavichene I. (2011): New records of lichens and lichenicolous fungi from the Ural Mountains, Russia. – *Folia Cryptogamica Estonica* 48: 119–124.
- Vatne S., Asplund J. & Gauslaa Y. (2011): Contents of carbon based defence compounds in the old forest lichen *Lobaria pulmonaria* vary along environmental gradients. – *Fungal Ecology* 4: 350–355.
- Verma N., Behera B. C. & Makhija U. V. (2011): Studies on cytochromes of lichenized fungi under optimized culture conditions. – *Mycoscience* 52: 65–68.