

Supporting Information

Table S1. Scientific articles included in the first author's personal archive (Lichenology database) used in the present review article.

1	Ardelean I.V., Keller C., Scheidegger C. 2013. Lichen flora of Rodnei Mountains National Park (Eastern Carpathians, Romania) including new records for the Romanian mycoflora. <i>Folia Cryptogamica Estonica</i> . 50 : 101-115.
2	Bäcklund S., Jönsson M., Strengbom J., Frisch A., Thor G. 2016. A pine is a pine and a spruce is a spruce – The effect of tree species and stand age on epiphytic lichen communities. <i>PLoS ONE</i> . 11 (1): e0147004.
3	Bartemucci P., Lilles E., Gauslaa Y. 2022. Silvicultural strategies for lichen conservation: smaller gaps and shorten distances to edges promote recolonization. <i>Ecosphere</i> . 13 : e3898.
4	Belinchón R., Martínez I., Otálora M.A.G., Aragón G., Dimas J., Escudero A. 2009. Fragment quality and matrix affect epiphytic performance in a Mediterranean forest landscape. <i>American Journal of Botany</i> . 96 (11): 1974–1982.
5	Bilovitz P.O., Batič F., Mayrhofer H. 2011. Epiphytic lichen mycota of the virgin forest reserve Rajhenavski Rog (Slovenia). <i>Herzogia</i> . 24 (2): 315–324.
6	Bouchard M., Boudreault C. 2016. Is metapopulation size important for the conservation of understory plants and epiphytic lichens? <i>Conservation Biology</i> . 195 : 187-195.
7	Brodeková L., Gilmer A., Dowding P., Fox H., Guttová A. 2006. An assessment of epiphytic lichen diversity and environmental quality in Knocksink Wood Nature Reserve, Ireland. <i>Biology and Environment: Proceedings of the Royal Irish Academy</i> . 106B (3): 215-223.
8	Brunialti G., Frati L., Loppi S. 2012. Fragmentation of Mediterranean oak forests affects the diversity of epiphytic lichens. <i>Nova Hedwigia</i> . 96 (1-2): 265-278.
9	Carlsson R., Nilsson K. 2009. Status of the red-listed <i>Lobaria pulmonaria</i> on the Åland Islands, SW Finland. <i>Annales Botanici Fennici</i> . 46 : 549–554.
10	Çobanoğlu G., Yavuz M., Costache I., Radu I., Açıkgöz B., Baloni L. 2009. Epiphytic and terricolous lichens diversity in Cozia National Park (Romania). <i>Oltenia. Studii și comunicări. Științele Naturii</i> . 25 : 17-22.
11	Çobanoğlu G., Yavuz M., Costache I., Radu I. 2011. Additional and new lichen records from Cozia National Park, Romania. <i>Mycotaxon</i> . 114 : 193-196.
12	Cordero S.R.A., Garrido A., Pérez-Molina J.P., Ramírez-Alán O., Chávez J.L. 2021. Lichen community structure and richness in three mid-elevation secondary forests in Costa Rica. <i>Revista de Biología Tropical</i> . 69 (2): 688-699.
13	Dingová Košuthová A., Svitková I., Pišút I., Senko D., Valachovič M. 2013. The impact of forest management on changes in composition of terricolous lichens in dry acidophilous Scots pine forests. <i>The Lichenologist</i> . 45 (3): 413-425
14	Dymytrova L., Nadyeina O., Hobi M.L., Scheidegger C. 2014. Topographic and forest-stand variables determining epiphytic lichen diversity in the primeval beech forest in the Ukrainian Carpathians. <i>Biodiversity and Conservation</i> . 23 : 1367–1394.
15	Friedel A., Oheimb G.V., Dengler J., Härdtle W. 2006. Species diversity and species composition of epiphytic bryophytes and lichens – a comparison of managed and unmanaged beech forests in NE Germany. <i>Feddes Repertorium</i> . 117 (1-2): 172–185.
16	Fritz O., Brunet J. 2010. Epiphytic bryophytes and lichens in Swedish beech forests – effects of forest history and habitat quality. <i>Ecological Bulletins</i> . 53 : 95–107.
17	Giordani P. 2006. Variables influencing the distribution of epiphytic lichens in heterogeneous areas: A case study for Liguria, NW Italy. <i>Journal of Vegetation Science</i> . 17 : 195-206.
18	Giordani P., Incerti G. 2008. The influence of climate on the distribution of lichens: a case study in a borderline area (Liguria, NW Italy). <i>Plant Ecology</i> . 195 : 257-272.

19	Hämäläinen A., Ranius T., Strengbom J. 2021. Increasing the amount of dead wood by creation of high stumps has limited value for lichen diversity. <i>Journal of Environmental Management</i> . 280 : 111646.
20	Hofmeister J., Hošek J., Malíček J., Palice Z., Syrovátková L., Steinová J., Černajová I. 2016. Large beech (<i>Fagus sylvatica</i>) trees as ‘lifeboats’ for lichen diversity in central European forests. <i>Biodiversity and Conservation</i> . 25 : 1073-1090.
21	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. <i>Biological Conservation</i> . 226 : 109443.
22	Johansson V., Ranius T., Snäll T. 2012. Epiphyte metapopulation dynamics are explained by species traits, connectivity, and patch dynamics. <i>Ecology</i> . 93 (2): 235-241.
23	Jüriado I., Liira J. 2009. Distribution and habitat ecology of the threatened forest lichen <i>Lobaria pulmonaria</i> in Estonia. <i>Folia Cryptogamica Estonica</i> . 46 : 55–65.
24	Khodosovtsev O., Dymytrova L., Nadyeina O., Naumovych A., Khodosovtseva Y., Scheidegger C. 2013. A contribution to beech forest-associated epiphytic lichen-forming and lichenicolous fungi in Crimean Mts (Ukraine). <i>Flora Mediterranea</i> . 23 : 57-68.
25	Malíček J., Palice Z., Vondrák J., Kostovčík M., Lenzová V., Hofmeister J. 2019. Lichens in old-growth and managed mountain spruce forests in the Czech Republic: assessment of biodiversity, functional traits and bioindicators. <i>Biodiversity and Conservation</i> . 28 : 3497-3528.
26	Marmor L., Tõrra T., Leppik E., Saag L., Randlane T. 2011. Epiphytic lichen diversity in Estonian and Fennoscandian old coniferous forests. <i>Folia Cryptogamica Estonica</i> . 48 : 31-43.
27	Motiejūnaitė J. 2015. Lichens and allied fungi from the Čepkeliai State Nature Reserve (southern Lithuania). <i>Botanica Lithuanica</i> . 21 (1): 3-12.
28	Nascimbene J., Marini L., Nimis P.L. 2007. Influence of forest management on epiphytic lichens in a temperate beech forest of northern Italy. <i>Forest Ecology and Management</i> . 247 : 43-47.
29	Nascimbene J., Marini L., Nimis P.L. 2009. Influence of tree species on epiphytic macrolichens in temperate mixed forests of northern Italy. <i>Canadian Journal of Forest Research</i> . 39 : 785-791.
30	Nascimbene J., Marini L., Nimis P.L. 2010. Epiphytic lichen diversity in old-growth and managed <i>Picea abies</i> stands in Alpine spruce forests. <i>Forest Ecology and Management</i> . 260 (5): 603-609.
31	Nascimbene J., Di Cecco V., Di Martino L., Frascaroli F., Giordani P., Lelli C., Vallese C., Zannini P., Chiarucci A. 2019. Epiphytic lichens of the sacred natural site “Bosco di Sant’Antonio” (Majella National Park – Abruzzo). <i>Italian Botanist</i> . 7 : 149–156.
32	Paltto H., Nordberg A., Nordén B., Snäll T. 2011. Development of secondary woodland in oak wood pastures reduces the richness of rare epiphytic lichens. <i>PLoS One</i> . 6 : e24675.
33	Paoli L., Benesperi R., Fačkovcová Z., Nascimbene J., Ravera S., Marchetti M., Anselmi B., Landi M., Landi S., Bianchi E., Di Nuzzo L., Lackovičová A., Vannini A., Loppi S., Guttová A. 2019. Impact of forest management on threatened epiphytic macrolichens: evidence from a Mediterranean mixed oak forest (Italy). <i>iForest - Biogeosciences and Forestry</i> . 12 (4): 383-388.
34	Ravera S., Genovesi V., Falasca A., Marchetti M., Chirici G. 2010. Lichen diversity of old-growth forests in Molise (Central-Southern Italy). <i>Italian Journal of Forest and Mountain Environments</i> . 65 (5): 505-517.
35	Rolstad J., Rolstad E. 1999. Does tree age predict the occurrence and abundance of <i>Usnea longissima</i> in multi-aged submontane <i>Picea abies</i> stands? <i>Lichenologist</i> . 31 (6): 613-625.
36	Rosenvald R., Lohmus A. 2008. For what, when, and where is green-tree retention better than clear-cutting? A review of the biodiversity aspects. <i>Forest Ecology and Management</i> . 255 : 1-15.
37	Sorrell A.R.J. 2006. A compartmental study of three Bolton Abbey woodlands using lichen-types: implications for current and future conservation management. <i>Earth & Environment</i> . 2 : 253-307.
38	Svoboda D., Peksa O., Veselá J. 2011. Analysis of the species composition of epiphytic lichens in Central European oak forests. <i>Preslia</i> . 83 : 129-144.
39	Świerkosz K., Reczyńska K., Kuras I. 2017. Increasing area of deciduous forest communities (Quercus-Fagetea Class) as an unintended effect of regular forestry management—a study from Central Europe. <i>Polish Journal of Environmental Studies</i> . 26 (1): 323-329.

40	Vicol I. 2010. Preliminary study on epiphytic lichens as an indicator of environmental quality in forests from around Bucharest Municipality (Romania). <i>Analele Universității din Oradea - Fascicula Biologie</i> . 17 (1): 200-207.
41	Vicol I. 2011. Preliminary study using lichen species diversity as an indicator of local environmental quality within two nature reserves from Romania. <i>Analele Universității din Oradea - Fascicula Biologie</i> . 18 (1): 53-58.
42	Vicol I. 2011. <i>Epiphytic lichens as indicators of environmental quality within forestry ecosystems from Bucharest Municipality metropolitan area</i> . International Symposium "The Environment and Industry". Held by National Research and Development Institute for Industrial Ecology, Crystal Palace Ballrooms, Bucharest, Romania, 16-18 November 2011. Publishing House EstFalia. 2: 303-309. ISSN 1843-5831.
43	Vicol I. 2012. The sinstructure of epiphytic lichens within forests from the eastern part of Bucharest Municipality (Romania). <i>Botanica Serbica</i> . 36 (2): 131-137.
44	Vicol I. 2015. Synecological structure of the lichen synusia within forest natural reserves from the Moldavian Plateau (Romania). <i>Turkish Journal of Botany</i> . 39 (1): 189-197.
45	Vicol I. 2016. Ecological patterns of lichen species abundance in mixed forests of Eastern Romania. <i>Annals of Forest Research</i> . 59 (2): 237-248.
46	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. <i>PLoS ONE</i> . 13 (9): e0203540.
47	Vondrák J., Malíček J., Šoun J., Pouska V. 2015. Epiphytic lichens of Stučica (E Slovakia) in the context of Central European old-growth forests. <i>Herzogia</i> . 28 (1): 104–126.
48	Vondrák J., Urbanavichus G., Palice Z., Malíček J., Urbanavichene I., Kubásek J., Ellis C. 2019. The epiphytic lichen biota of Caucasian virgin forests: a comparator for European conservation. <i>Biodiversity and Conservation</i> . 28 : 3257–3276.
49	Werth S., Tømmervik H., Elvebakk A. 2005. Epiphytic macrolichen communities along regional gradients in northern Norway. <i>Journal of Vegetation Science</i> . 16 : 199-208.
50	Wolseley, A. P. 1995. A global perspective on the status of lichens and their conservation. <i>Mitteilungen der Eidgenössischen Forschungsanstalt für Wald, Schnee und Landschaft</i> . 70 (1): 11–27.

Table S2. Reference materials retrieved from the Web of Science platform according to the following topics: **forest/lichen species/Europe**.

1	Aragón G., Abuja L., Belinchón R., Martínez I. 2015. Edge type determines the intensity of forest edge effect on epiphytic communities. <i>European Journal of Forest Research</i> . 134 (3): 443-451.
2	Belinchón R., Ellis C.J., Yahr R. 2018. Climate-woodland effects on population genetics for two congeneric lichens with contrasting reproductive strategies. <i>FEMS Microbiology Ecology</i> . 94 : 159.
3	Belinchón R., Martínez I., Escudero A., Aragón G., Valladares F. 2007. Edge effects on epiphytic communities in a Mediterranean <i>Quercus pyrenaica</i> forest. <i>Journal of Vegetation Science</i> . 18 : 81-90.
4	Calviño-Cancela M., López de Silanes M.E., Rubido-Bará M., Uribarri J. 2013. The potential role of tree plantations in providing habitat for lichen epiphytes. <i>Forest Ecology and Management</i> . 291: 386-395.
5	Cardós J.L.H., Martínez I., Calvo V., Aragón G. 2016. Epiphyte communities in Mediterranean fragmented forests: importance of the fragment size and the surroundings. <i>Landscape Ecology</i> . 31 : 1975-1995.
6	Cardós J.L.H., Martínez I., Aragón G., Ellis C.J. 2018. Role of past and present landscape structure in determining epiphyte richness in fragmented Mediterranean forests. <i>Landscape Ecology</i> . 33 : 1757-1768.
7	Caruso A., Rudolphi J., Rydin H. 2011. Positive edge effects on forest-interior cryptogams in clearcuts. <i>PLoS ONE</i> . 6 (11): e27936.
8	Dittrich S., Hauck M., Schweigatz D., Dörfler I., Hühne R., Bade C., Jacob M., Leuschner C. 2013. Separating forest continuity from tree age effects on plant diversity in the ground and epiphyte vegetation of a Central European mountain spruce forest. <i>Flora</i> . 208 (4): 238-246.

9	Dittrich S., Jacob M., Bade C., Leuschner C., Hauck M. 2014. The significance of deadwood for total bryophyte, lichen, and vascular plant diversity in an old-growth spruce forest. <i>Plant Ecology</i> . 215 : 1123-1137.
10	Ellis C.J., Coppins B.J. 2019. Five decades of decline for old-growth indicator lichens in Scotland. <i>Edinburgh Journal of Botany</i> . 76 (3): 319-331.
11	Esseen P.A., Renhorn K.E. 1998. Edge effects on an epiphytic lichen in fragmented forests. <i>Conservation biology</i> . 12 (6): 1307-1317.
12	Hilmo O., Holien H., Hytteborn H. 2005. Logging strategy influences colonization of common chlorolichens on branches of <i>Picea abies</i> . <i>Ecological Applications</i> . 15 (3): 983–996.
13	Hilmo O., Lundemo S., Holien H., Stengrundet K., Stenøien H.K. 2012. Genetic structure in a fragmented Northern Hemisphere rainforest: large effective sizes and high connectivity among populations of the epiphytic lichen <i>Lobaria pulmonaria</i> . <i>Molecular Ecology</i> . 21 : 3250–3265.
14	Johansson V., Ranius T., Snäll T. 2013. Epiphyte metapopulation persistence after drastic habitat decline and low tree regeneration: time-lags and effects of conservation actions. <i>Journal of Applied Ecology</i> . 50 (2): 414-422.
15	Johansson V., Snäll T., Ranius T. 2013. Estimates of connectivity reveal non-equilibrium epiphyte occurrence patterns almost 180 years after habitat decline. <i>Oecologia</i> . 172 : 607-615.
16	Kiebacher T., Keller C., Scheidegger C., Bergamini A. 2017. Epiphytes in wooded pastures: Isolation matters for lichen but not for bryophyte species richness. <i>PLoS ONE</i> . 12 (7): e0182065.
17	Liepa L., Rendenieks Z., Jansons Ā., Straupe I., Dubrovskis E., Miežīte O. 2020. The persisting influence of edge on vegetation in hemiboreal <i>Alnus glutinosa</i> (L.) Gaertn. swamp forest set-asides adjacent to recently disturbed stands. <i>Forests</i> . 11 : 1084.
18	Lelli C., Bruun H.H., Chiarucci A., Donati D., Frascaroli F., Fritz Ö., Goldberg I., Nascimbene J., Tøttrup A.P., Rahbek C., Heilmann-Clausen J. 2019. Biodiversity response to forest structure and management: comparing species richness, conservation relevant species and functional diversity as metrics in forest conservation. <i>Forest Ecology and Management</i> . 432 : 707-717.
19	Lommi S., Berglund H., Kuusinen M., Kuuluvainen T. 2010. Epiphytic lichen diversity in late-successional <i>Pinus sylvestris</i> forests along local and regional forest utilization gradients in eastern boreal Fennoscandia. <i>Forest Ecology and Management</i> . 259 : 883-892.
20	Maceda Veiga A., Gómez Bolea A. 2017. Small, fragmented native oak forests have better preserved epiphytic lichen communities than tree plantations in temperate sub-oceanic Mediterranean climate region. <i>The Bryologist</i> . 120 (2): 191-201.
21	Otálora M. G., Martínez I., Belinchón R., Widmer I., Aragón G., Escudero A., Scheidegger C. 2011. Remnant fragments preserve genetic diversity of the old forest lichen <i>Lobaria pulmonaria</i> in a fragmented Mediterranean mountain forest. <i>Biodiversity and Conservation</i> . 20 : 1239-1254.
22	Paltto H., Nordén B., Götmark F., Franc N. 2006. At which spatial and temporal scales does landscape context affect local density of Red Data Book and Indicator species? <i>Biological Conservation</i> . 133 : 442-454.
23	Vicol, I. 2015. Effect of old-growth forest attributes on lichen species abundances: a study performed within Ceahlău National Park (Romania). <i>Cryptogamie Mycologie</i> . 36 (4): 399-407.
24	Vicol I. 2020. The role of forest structure as a determinant of epiphytic lichens within managed temperate deciduous forests (southern Romania). <i>Environmental Engineering and Management Journal</i> . 19 (5): 797-807.
25	Vicol I. 2020. Multi-aged forest fragments in Atlantic France that are surrounded by meadows retain a richer epiphyte lichen flora. <i>Cryptogamie Mycologie</i> . 41 (15): 235-247.
26	Wolseley P., Sanderson N., Thüs H., Carpenter D., Eggleton P. 2017. Patterns and drivers of lichen species composition in a NW-European lowland deciduous woodland complex. <i>Biodiversity and Conservation</i> . 26 (2): 401-419.
27	Zoller S, Lutzoni F, Scheidegger C. 1999. Genetic variation within and among populations of the threatened lichen <i>Lobaria pulmonaria</i> in Switzerland and implications for its conservation. <i>Molecular Ecology</i> . 8 (12): 2049–2059.

Table S3. Reference materials retrieved from on the Web of Science platform according to the following topics: **forest management/lichen species/Europe.**

1	Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i> . 426 :188–195.
2	Czerepko J., Gawryś R., Mańk K., Janek M., Tabor J., Skalski L. 2021. The influence of the forest management in the Białowieża forest on the species structure of the forest community. <i>Forest Ecology and Management</i> . 496 : 119363.
3	Hofmeister J., Hošek J., Malíček J., Palice Z., Syrovátková L., Steinová J., Černajová I. 2016. Large beech (<i>Fagus sylvatica</i>) trees as ‘lifeboats’ for lichen diversity in central European forests. <i>Biodiversity and Conservation</i> . 25 : 1073-1090.
4	Johansson V., Ranius T., Snäll T. 2013. Epiphyte metapopulation persistence after drastic habitat decline and low tree regeneration: time-lags and effects of conservation actions. <i>Journal of Applied Ecology</i> . 50 (2): 414-422.
5	Moning C., Werth S., Dziocck F., Bässler C., Bradtka J., Hothorn T., Müller J. 2009. Lichen diversity in temperate montane forests is influenced by forest structure more than climate. <i>Forest Ecology and Management</i> . 258 : 745-751.
6	Nascimbene J., Marini L. 2010. Oak forest exploitation and black-locust invasion caused severe shifts in epiphytic lichen communities in Northern Italy. <i>Science of the Total Environment</i> . 408 : 5506-5512.
7	Nascimbene J., Lazzaro L., Benesperi R. 2015. Patterns of beta-diversity and similarity reveal biotic homogenization of epiphytic lichen communities associated with the spread of black locust forests. <i>Fungal Ecology</i> . 14 : 1-7.
8	Oksuz D.P., Aquiar C.A.S., Tápia S., Llop E., Serrano A.R.M., Leal A.I., Branquinho C., Correia O., Rainho A., Correia R.A., Palmeirim J.M. 2020. Increasing biodiversity in wood-pastures by protecting small shrubby patches. <i>Forest Ecology and Management</i> . 464 : 118041.
9	Paillet Y., Bergès L., Hjältén J., Ódor P., Avon C., Bernhardt-Römermann M., Bijlsma R.J., De Bruyn L., Fuhr M., Grandin U., Kanka R., Lundin L., Luque S., Magura T., Matesanz S., Mészáros I., Sebastià M.T., Schmidt W., Standovár T., Tóthmérész B., Uotila A., Valladares F., Vellak K., Virtanen R. 2010. Biodiversity differences between managed and unmanaged forests: meta-analysis of species richness in Europe. <i>Conservation Biology</i> . 24 (1): 101-112.
10	Runnel K., Rosenvald R., Lõhmus A. 2013. The dying legacy of green-tree retention: different habitat values for polypore and wood-inhabiting lichens. <i>Biological Conservation</i> . 159 : 187-196.
11	Vicol I. 2020. Multi-aged forest fragments in Atlantic France that are surrounded by meadows retain a richer epiphyte lichen flora. <i>Cryptogamie Mycologie</i> . 41 (15): 235-247.

Table S4. Scientific articles included in the first author's personal archive (Landscape Ecology database) used in the present review article.

1	Beier P., Noss R.F. 1998. Do habitat corridors provide connectivity? <i>Conservation Biology</i> . 12 (6): 1241-1252.
2	Blicharska M., Angelstam P., Giessen L., Hilszczański J., Hermanowicz E., Holeksa J., Jacobsen J.B., Jaroszewicz B., Konczal A., Konieczny A., Mikusiński G., Mirek Z., Mohren F., Muys B., Niedziałkowski K., Sotirov M., Stereńczak K., Szwagrzyk J., Winder G.M., Witkowski Z., Zapłata R., Winkel G. 2020. Between biodiversity conservation and sustainable forest management-A multidisciplinary assessment of the emblematic Białowieża Forest case. <i>Biological Conservation</i> . 248 : 108614.
3	Cervellini M., Zannini P., Di Musciano M., Fattorini S., Jiménez-Alfaro B., Rocchini D., Field R., Vetaas O.R., Irl S.D.H., Beierkuhnlein C., Hoffmann S., Fischer J.C., Casella L., Angelini P., Genovesi P., Nascimbene J., Chiarucci A. 2020. A grid-based map for the biogeographical regions of Europe. <i>Biodiversity Data Journal</i> . 8 : e53720.
4	Hanski I. 1999. Habitat connectivity, habitat continuity, and metapopulations in dynamic landscape. <i>Oikos</i> . 87 : 209-219.
5	Niculae M.I., Avram S., Vânău G.O., Pătroescu M. 2017. Effectiveness of Natura 2000 network in Romanian alpine biogeographical region: an assessment based on forest landscape connectivity. <i>Annals of Forest Research</i> . 60 (1): 19-32.
6	Stănciou P.T., Niță M.D., Lazăr G.E. 2018. Forestland connectivity in Romania-Implications for policy and management. <i>Land Use Policy</i> . 76 : 487-499.
7	Palmero-Iniesta M., Espelta J.M., Gordillo J., Pino J. 2020. Changes in forest landscape patterns resulting from recent afforestation of pre-existing forest versus new patch proliferation. <i>Annals of Forest Science</i> . 77 : 43.
8	Marín A.I., Abdul Malak D., Bastrup-Birk A., Chirici G., Barbati A., Kleeschulte S. 2021. Mapping forest condition in Europe: methodological developments in support to forest biodiversity assessments. <i>Ecological Indicators</i> . 128 : 107839.
9	Han Q., Keeffe G., Cullen S. 2022. Climate connectivity of European forests for species range shifts. <i>Forests</i> . 12 : 940.

Table S5. Reference materials used in the statistical analyses based on selected variables such as lichen richness and management practices.

Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i> . 426 :188–195.
Aragón G., Abuja L., Belinchón R., Martínez I. 2015. Edge type determines the intensity of forest edge effect on epiphytic communities. <i>European Journal of Forest Research</i> . 134 (3): 443-451.
Ardelean I.V., Keller C., Scheidegger C. 2013. Lichen flora of Rodnei Mountains National Park (Eastern Carpathians, Romania) including new records for the Romanian mycoflora. <i>Folia Cryptogamica Estonica</i> . 50 : 101-115.
Ardelean I.V., Keller C., Scheidegger C. 2015. Effect of management on lichen species richness, ecological traits and community structure in the Rodnei Mountains National Park (Romania). <i>PLoS One</i> . 10 (12): e0145808.
Bäcklund S., Jönsson M., Strengbom J., Frisch A., Thor G. 2016. A pine is a pine and a spruce is a spruce – The effect of tree species and stand age on epiphytic lichen communities. <i>PLoS ONE</i> . 11 (1): e0147004.
Belinchón R., Martínez I., Escudero A., Aragón G., Valladares F. 2007. Edge effects on epiphytic communities in a Mediterranean <i>Quercus pyrenaica</i> forest. <i>Journal of Vegetation Science</i> . 18 : 81-90.
Bilovitz P.O., Batič F., Mayrhofer H. 2011. Epiphytic lichen mycota of the virgin forest reserve Rajhenavski Rog (Slovenia). <i>Herzogia</i> . 24 (2): 315–324.
Brodeková L., Gilmer A., Dowding P., Fox H., Guttová A. 2006. An assessment of epiphytic lichen diversity and environmental quality in Knocksink Wood Nature Reserve, Ireland. <i>Biology and Environment: Proceedings of the Royal Irish Academy</i> . 106B (3): 215-223.

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- Brunialti G., Frati L., Loppi S. 2012. Fragmentation of Mediterranean oak forests affects the diversity of epiphytic lichens. *Nova Hedwigia*. **96** (1-2): 265-278.
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- Calviño-Cancela M., López de Silanes M.E., Rubido-Bará M., Uribarri J. 2013. The potential role of tree plantations in providing habitat for lichen epiphytes. *Forest Ecology and Management*. **291**: 386-395.
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- Cardós J.L.H., Martínez I., Calvo V., Aragón G. 2016. Epiphyte communities in Mediterranean fragmented forests: importance of the fragment size and the surroundings. *Landscape Ecology*. **31**: 1975-1995.
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- Çobanoğlu G., Yavuz M., Costache I., Radu I., Açıkgöz B., Baloni L. 2009. Epiphytic and terricolous lichens diversity in Cozia National Park (Romania). *Oltenia. Studii și comunicări. Științele Naturii*. **25**: 17-22.
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- Çobanoğlu G., Yavuz M., Costache I., Radu I. 2011. Additional and new lichen records from Cozia National Park, Romania. *Mycotaxon*. **114**: 193-196.
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Nascimbene J., Marini L. 2010. Oak forest exploitation and black-locust invasion caused severe shifts in epiphytic lichen communities in Northern Italy. *Science of the Total Environment*. **408**: 5506-5512.

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Vicol I. 2012. The sinstructure of epiphytic lichens within forests from the eastern part of Bucharest Municipality (Romania). *Botanica Serbica*. **36** (2): 131-137.

Vicol I. 2015. Effect of old-growth forest attributes on lichen species abundances: a study performed within Ceahlău National Park (Romania). *Cryptogamie Mycologie*. **36** (4): 399-407.

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Werth S., Tømmervik H., Elvebakk A. 2005. Epiphytic macrolichen communities along regional gradients in northern Norway. *Journal of Vegetation Science*. **16**: 199-208.

Table S6. Reference materials used in the statistical analyses based on management practices.

Management practices	References
clearcutting	<p>Bäcklund S., Jönsson M., Strengbom J., Frisch A., Thor G. 2016. A pine is a pine and a spruce is a spruce – The effect of tree species and stand age on epiphytic lichen communities. <i>PLoS ONE</i>. 11 (1): e0147004.</p> <p>Nascimbene J., Marini L., Nimis P.L. 2010. Epiphytic lichen diversity in old-growth and managed <i>Picea abies</i> stands in Alpine spruce forests. <i>Forest Ecology and Management</i>. 260 (5): 603-609.</p> <p>Nascimbene J., Lazzaro L., Benesperi R. 2015. Patterns of beta-diversity and similarity reveal biotic homogenization of epiphytic lichen communities associated with the spread of black locust forests. <i>Fungal Ecology</i>. 14: 1-7.</p> <p>Nascimbene J., Marini L., Nimis P.L. 2010. Epiphytic lichen diversity in old-growth and managed <i>Picea abies</i> stands in Alpine spruce forests. <i>Forest Ecology and Management</i>. 260 (5): 603-609.</p> <p>Werth S., Tømmervik H., Elvebakk A. 2005. Epiphytic macrolichen communities along regional gradients in northern Norway. <i>Journal of Vegetation Science</i>. 16: 199-208.</p>
coppicing	<p>Brodeková L., Gilmer A., Dowding P., Fox H., Guttová A. 2006. An assessment of epiphytic lichen diversity and environmental quality in Knocksink Wood Nature Reserve, Ireland. <i>Biology and Environment: Proceedings of the Royal Irish Academy</i>. 106B (3): 215-223.</p> <p>Brunialti G., Frati L., Loppi S. 2012. Fragmentation of Mediterranean oak forests affects the diversity of epiphytic lichens. <i>Nova Hedwigia</i>. 96 (1-2): 265-278.</p> <p>Nascimbene J., Lazzaro L., Benesperi R. 2015. Patterns of beta-diversity and similarity reveal biotic homogenization of epiphytic lichen communities associated with the spread of black locust forests. <i>Fungal Ecology</i>. 14: 1-7.</p>
crop production	<p>Calviño-Cancela M., López de Silanes M.E., Rubido-Bará M., Uribarri J. 2013. The potential role of tree plantations in providing habitat for lichen epiphytes. <i>Forest Ecology and Management</i>. 291: 386-395.</p>
forest managed for its sustainable ecological and social functions	<p>Sârbu A., Sârbu I., Oprea A., Negrean G., Cristea V., Gheorghe C., Cristurean I., Popescu Ghe., Oroian S., Tănase C., Bartók K., Gafta D., Anastasiu P., Crişan F., Costache I., Goia I., Marușca T., Oțel V., Sămărghițan M., Hențea S., Pascale G., Răduțoiu D., Baz A., Boruz V., Pușcaș M., Hirițiu M., Stan I., Frink J. 2007. Arii speciale pentru protecția și conservarea plantelor în România. Victor B Victor, Bucharest.</p> <p>Vicol I. 2015. Synecological structure of the lichen synusia within forest natural reserves from the Moldavian Plateau (Romania). <i>Turkish Journal of Botany</i>. 39 (1): 189-197.</p> <p>Vicol I. 2016. Ecological patterns of lichen species abundance in mixed forests of Eastern Romania. <i>Annals of Forest Research</i>. 59 (2): 237-248.</p>
shelterwood system	<p>Friedel A., Oheimb G.V., Dengler J., Härdtle W. 2006. Species diversity and species composition of epiphytic bryophytes and lichens – a comparison of managed and unmanaged beech forests in NE Germany. <i>Feddes Repertorium</i>. 117 (1-2): 172–185.</p> <p>Nascimbene J., Marini L., Nimis P.L. 2007. Influence of forest management on epiphytic lichens in a temperate beech forest of northern Italy. <i>Forest Ecology and Management</i>. 247: 43-47.</p>
thinning	<p>Nascimbene J., Marini L., Nimis P.L. 2010. Epiphytic lichen diversity in old-growth and managed <i>Picea abies</i> stands in Alpine spruce forests. <i>Forest Ecology and Management</i>. 260 (5): 603-609.</p>
wood pasture	<p>Ardelean I.V., Keller C., Scheidegger C. 2013. Lichen flora of Rodnei Mountains National Park (Eastern Carpathians, Romania) including new records for the Romanian mycoflora. <i>Folia Cryptogamica Estonica</i> 50: 101-115.</p>

Table S7. Reference materials for unmanaged forests used in the statistical analyses.

unmanaged forests	<p>Aragón G., Abuja L., Belinchón R., Martínez I. 2015. Edge type determines the intensity of forest edge effect on epiphytic communities. <i>European Journal of Forest Research</i>. 134 (3): 443-451.</p> <p>Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i>. 426:188–195.</p> <p>Ardelean I.V., Keller C., Scheidegger C. 2013. Lichen flora of Rodnei Mountains National Park (Eastern Carpathians, Romania) including new records for the Romanian mycoflora. <i>Folia Cryptogamica Estonica</i> 50: 101-115.</p> <p>Belinchón R., Martínez I., Escudero A., Aragón G., Valladares F. 2007. Edge effects on epiphytic communities in a Mediterranean <i>Quercus pyrenaica</i> forest. <i>Journal of Vegetation Science</i>. 18: 81-90.</p> <p>Bilovitz P.O., Batič F., Mayrhofer H. 2011. Epiphytic lichen mycota of the virgin forest reserve Rajhenavski Rog (Slovenia). <i>Herzogia</i>. 24 (2): 315–324.</p> <p>Brodeková L., Gilmer A., Dowding P., Fox H., Guttová A. 2006. An assessment of epiphytic lichen diversity and environmental quality in Knocksink Wood Nature Reserve, Ireland. <i>Biology and Environment: Proceedings of the Royal Irish Academy</i>. 106B (3): 215-223.</p> <p>Calviño-Cancela M., López de Silanes M.E., Rubido-Bará M., Uribarri J. 2013. The potential role of tree plantations in providing habitat for lichen epiphytes. <i>Forest Ecology and Management</i>. 291: 386-395.</p> <p>Cardós J.L.H., Martínez I., Calvo V., Aragón G. 2016. Epiphyte communities in Mediterranean fragmented forests: importance of the fragment size and the surroundings. <i>Landscape Ecology</i>. 31: 1975-1995.</p> <p>Çobanoğlu G., Yavuz M., Costache I., Radu I., Açıkgöz B., Baloni L. 2009. Epiphytic and terricolous lichens diversity in Cozia National Park (Romania). <i>Oltenia. Studii și comunicări. Științele Naturii</i>. 25: 17-22.</p> <p>Çobanoğlu G., Yavuz M., Costache I., Radu I. 2011. Additional and new lichen records from Cozia National Park, Romania. <i>Mycotaxon</i>. 114: 193-196.</p> <p>Dittrich S., Hauck M., Schweigatz D., Dörfler I., Hühne R., Bade C., Jacob M., Leuschner C. 2013. Separating forest continuity from tree age effects on plant diversity in the ground and epiphyte vegetation of a Central European mountain spruce forest. <i>Flora</i>. 208 (4): 238-246.</p> <p>Dittrich S., Jacob M., Bade C., Leuschner C., Hauck M. 2014. The significance of deadwood for total bryophyte, lichen, and vascular plant diversity in an old-growth spruce forest. <i>Plant Ecology</i>. 215: 1123-1137.</p> <p>Dymytrova L., Nadyeina O., Hobi M.L., Scheidegger C. 2014. Topographic and forest-stand variables determining epiphytic lichen diversity in the primeval beech forest in the Ukrainian Carpathians. <i>Biodiversity and Conservation</i>. 23: 1367–1394.</p> <p>Friedel A., Oheimb G.V., Dengler J., Hårdtle W. 2006. Species diversity and species composition of epiphytic bryophytes and lichens – a comparison of managed and unmanaged beech forests in NE Germany. <i>Feddes Repertorium</i>. 117 (1-2): 172–185.</p> <p>Hofmeister J., Hošek J., Malíček J., Palice Z., Syravátková L., Steinová J., Černajová I. 2016. Large beech (<i>Fagus sylvatica</i>) trees as ‘lifeboats’ for lichen diversity in central European forests. <i>Biodiversity and Conservation</i>. 25: 1073-1090.</p> <p>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. <i>Biological Conservation</i>. 226: 109443.</p> <p>Khodosovtsev O., Dymytrova L., Nadyeina O., Naumovych A., Khodosovtseva Y., Scheidegger C. 2013. A contribution to beech forest-associated epiphytic lichen-forming and lichenicolous fungi in Crimean Mts (Ukraine). <i>Flora Mediterranea</i>. 23: 57-68.</p> <p>Malíček J., Palice Z., Vondrák J., Kostovčík M., Lenzová V., Hofmeister J. 2019. Lichens in old-growth and managed mountain spruce forests in the Czech Republic: assessment of biodiversity, functional traits and bioindicators. <i>Biodiversity and Conservation</i>. 28: 3497-3528.</p>
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unmanaged forests	<p>Moning C., Werth S., Dziock F., Bässler C., Bradtka J., Hothorn T., Müller J. 2009. Lichen diversity in temperate montane forests is influenced by forest structure more than climate. <i>Forest Ecology and Management</i>. 258: 745-751.</p> <p>Motiejūnaitė J. 2015. Lichens and allied fungi from the Čepkeliai State Nature Reserve (southern Lithuania). <i>Botanica Lithuanica</i>. 21 (1): 3-12.</p> <p>Nascimbene J., Di Cecco V., Di Martino L., Frascaroli F., Giordani P., Lelli C., Vallese C., Zannini P., Chiarucci A. 2019. Epiphytic lichens of the sacred natural site “Bosco di Sant’Antonio” (Majella National Park – Abruzzo). <i>Italian Botanist</i>. 7: 149–156.</p> <p>Nascimbene J., Marini L. 2010. Oak forest exploitation and black-locust invasion caused severe shifts in epiphytic lichen communities in Northern Italy. <i>Science of the Total Environment</i>. 408: 5506-5512.</p> <p>Nascimbene J., Marini L., Nimis P.L. 2010. Epiphytic lichen diversity in old-growth and managed <i>Picea abies</i> stands in Alpine spruce forests. <i>Forest Ecology and Management</i>. 260 (5): 603-609.</p> <p>Ravera S., Genovesi V., Falasca A., Marchetti M., Chirici G. 2010. Lichen diversity of old-growth forests in Molise (Central-Southern Italy). <i>Italian Journal of Forest and Mountain Environments</i>. 65 (5): 505-517.</p> <p>Vicol I. 2011. Preliminary study using lichen species diversity as an indicator of local environmental quality within two nature reserves from Romania. <i>Analele Universității din Oradea - Fascicula Biologie</i>. 18 (1): 53-58.</p> <p>Vicol I. 2015b. Synecological structure of the lichen synusiae within forest natural reserves from the Moldavian Plateau (Romania). <i>Turkish Journal of Botany</i>. 39 (1): 189-197.</p> <p>Vicol I. 2016. Ecological patterns of lichen species abundance in mixed forests of Eastern Romania. <i>Annals of Forest Research</i>. 59 (2): 237-248.</p> <p>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. <i>PLoS ONE</i>. 13 (9): e0203540.</p> <p>Vondrák J., Malíček J., Šoun J., Pouska V. 2015. Epiphytic lichens of Stučica (E Slovakia) in the context of Central European old-growth forests. <i>Herzogia</i>. 28 (1): 104–126.</p> <p>Vondrák J., Urbanavichus G., Palice Z., Malíček J., Urbanavichene I., Kubásek J., Ellis C. 2019. The epiphytic lichen biota of Caucasian virgin forests: a comparator for European conservation. <i>Biodiversity and Conservation</i>. 28: 3257–3276.</p>
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Table S8. Management practices observed during field activities used in the statistical analyses.

Management practices	References
selective cutting	<p>Vicol I. 2010. Preliminary study on epiphytic lichens as an indicator of environmental quality in forests from around Bucharest Municipality (Romania). <i>Analele Universității din Oradea - Fascicula Biologie</i>. 17 (1): 200-207.</p> <p>Vicol I. 2011. Epiphytic lichens as indicators of environmental quality within forestry ecosystems from Bucharest Municipality metropolitan area. <i>International Symposium "The Environment and Industry"</i>. Held by National Research and Development Institute for Industrial Ecology, Crystal Palace Ballrooms, Bucharest, Romania, 16-18 November 2011. Publishing House EstFalia. 2: 303-309. ISSN 1843-5831.</p> <p>Vicol I. 2012. The sinstructure of epiphytic lichens within forests from the eastern part of Bucharest Municipality (Romania). <i>Botanica Serbica</i>. 36 (2): 131-137.</p> <p>Vicol I. 2020. The role of forest structure as a determinant of epiphytic lichens within managed temperate deciduous forests (southern Romania). <i>Environmental Engineering and Management Journal</i>. 19 (5): 797-807.</p>

Table S10. Variation in the number of epiphytic lichen species across biogeographical regions and corresponding references.

Biogeographical regions	Variation in epiphytic lichen number	References
Alpine	11-537	<p>Ardelean I.V., Keller C., Scheidegger C. 2013. Lichen flora of Rodnei Mountains National Park (Eastern Carpathians, Romania) including new records for the Romanian mycoflora. <i>Folia Cryptogamica Estonica</i> 50: 101-115.</p> <p>Bilovitz P.O., Batič F., Mayrhofer H. 2011. Epiphytic lichen mycota of the virgin forest reserve Rajhenavski Rog (Slovenia). <i>Herzogia</i>. 24 (2): 315–324.</p> <p>Çobanoğlu G., Yavuz M., Costache I., Radu I., Açıkgöz B., Baloni L. 2009. Epiphytic and terricolous lichens diversity in Cozia National Park (Romania). <i>Oltenia. Studii și comunicări. Științele Naturii</i>. 25: 17-22.</p> <p>Çobanoğlu G., Yavuz M., Costache I., Radu I. 2011. Additional and new lichen records from Cozia National Park, Romania. <i>Mycotaxon</i>. 114: 193-196.</p> <p>Dymytrva L., Nadyeina O., Hobi M.L., Scheidegger C. 2014. Topographic and forest-stand variables determining epiphytic lichen diversity in the primeval beech forest in the Ukrainian Carpathians. <i>Biodiversity and Conservation</i>. 23: 1367–1394.</p> <p>Nascimbene J., Di Cecco V., Di Martino L., Frascaroli F., Giordani P., Lelli C., Vallese C., Zannini P., Chiarucci A. 2019. Epiphytic lichens of the sacred natural site “Bosco di Sant’Antonio” (Majella National Park – Abruzzo). <i>Italian Botanist</i>. 7: 149–156.</p> <p>Nascimbene J., Marini L., Nimis P.L. 2007. Influence of forest management on epiphytic lichens in a temperate beech forest of northern Italy. <i>Forest Ecology and Management</i>. 247: 43-47.</p> <p>Nascimbene J., Marini L., Nimis P.L. 2009. Influence of tree species on epiphytic macrolichens in temperate mixed forests of northern Italy. <i>Canadian Journal of Forest Research</i>. 39: 785-791.</p> <p>Nascimbene J., Marini L., Nimis P.L. 2010. Epiphytic lichen diversity in old-growth and managed <i>Picea abies</i> stands in Alpine spruce forests. <i>Forest Ecology and Management</i>. 260 (5): 603-609.</p> <p>Ravera S., Genovesi V., Falasca A., Marchetti M., Chirici G. 2010. Lichen diversity of old-growth forests in Molise (Central-Southern Italy). <i>Italian Journal of Forest and Mountain Environments</i>. 65 (5): 505-517.</p> <p>Vicol I. 2011. Preliminary study using lichen species diversity as an indicator of local environmental quality within two nature reserves from Romania. <i>Analele Universității din Oradea - Fascicula Biologie</i>. 18 (1): 53-58.</p> <p>Vicol, I. 2015a. Effect of old-growth forest attributes on lichen species abundances: a study performed within Ceahlău National Park (Romania), <i>Cryptogamie Mycologie</i>. 36(4): 399-407.</p> <p>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. <i>PLoS ONE</i>. 13 (9): e0203540.</p> <p>Vondrák J., Malíček J., Šoun J., Pouska V. 2015. Epiphytic lichens of Stužica (E Slovakia) in the context of Central European old-growth forests. <i>Herzogia</i>. 28 (1): 104–126.</p>

Alpine	11-537	<p>Vondrák J., Urbanavichus G., Palice Z., Malíček J., Urbanavichene I., Kubásek J., Ellis C. 2019. The epiphytic lichen biota of Caucasian virgin forests: a comparator for European conservation. <i>Biodiversity and Conservation</i>. 28: 3257–3276.</p> <p>Werth S., Tømmervik H., Elvebakk A. 2005. Epiphytic macrolichen communities along regional gradients in northern Norway. <i>Journal of Vegetation Science</i>. 16: 199-208.</p>
Atlantic	12-217	<p>Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i>. 426:188–195.</p> <p>Brodeková L., Gilmer A., Dowding P., Fox H., Guttová A. 2006. An assessment of epiphytic lichen diversity and environmental quality in Knocksink Wood Nature Reserve, Ireland. <i>Biology and Environment: Proceedings of the Royal Irish Academy</i>. 106B (3): 215-223.</p> <p>Calviño-Cancela M., López de Silanes M.E., Rubido-Bará M., Uribarri J. 2013. The potential role of tree plantations in providing habitat for lichen epiphytes. <i>Forest Ecology and Management</i>. 291: 386-395.</p> <p>Dittrich S., Hauck M., Schweigatz D., Dörfler I., Hühne R., Bade C., Jacob M., Leuschner C. 2013. Separating forest continuity from tree age effects on plant diversity in the ground and epiphyte vegetation of a Central European mountain spruce forest. <i>Flora</i>. 208 (4): 238-246.</p> <p>Dittrich S., Jacob M., Bade C., Leuschner C., Hauck M. 2014. The significance of deadwood for total bryophyte, lichen, and vascular plant diversity in an old-growth spruce forest. <i>Plant Ecology</i>. 215: 1123-1137.</p> <p>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. <i>Biological Conservation</i>. 226: 109443.</p>
Boreal	57-132	<p>Bäcklund S., Jönsson M., Strengbom J., Frisch A., Thor G. 2016. A pine is a pine and a spruce is a spruce – The effect of tree species and stand age on epiphytic lichen communities. <i>PLoS ONE</i>. 11 (1): e0147004.</p> <p>Motiejūnaitė J. 2015. Lichens and allied fungi from the Čepkeliai State Nature Reserve (southern Lithuania). <i>Botanica Lithuanica</i>. 21 (1): 3-12.</p>
Continental	7-138	<p>Friedel A., Oheimb G.V., Dengler J., Härdtle W. 2006. Species diversity and species composition of epiphytic bryophytes and lichens – a comparison of managed and unmanaged beech forests in NE Germany. <i>Feddes Repertorium</i>. 117 (1-2): 172–185.</p> <p>Hofmeister J., Hošek J., Malíček J., Palice Z., Syrovátková L., Steinová J., Černajová I. 2016. Large beech (<i>Fagus sylvatica</i>) trees as ‘lifeboats’ for lichen diversity in central European forests. <i>Biodiversity and Conservation</i>. 25: 1073-1090.</p> <p>Nascimbene J., Lazzaro L., Benesperi R. 2015. Patterns of beta-diversity and similarity reveal biotic homogenization of epiphytic lichen communities associated with the spread of black locust forests. <i>Fungal Ecology</i>. 14: 1-7.</p> <p>Nascimbene J., Marini L. 2010. Oak forest exploitation and black-locust invasion caused severe shifts in epiphytic lichen communities in Northern Italy. <i>Science of the Total Environment</i>. 408: 5506-5512.</p>

Continental	7-138	<p>Malíček J., Palice Z., Vondrák J., Kostovčík M., Lenzová V., Hofmeister J. 2019. Lichens in old-growth and managed mountain spruce forests in the Czech Republic: assessment of biodiversity, functional traits and bioindicators. <i>Biodiversity and Conservation</i>. 28: 3497-3528.</p> <p>Moning C., Werth S., Dziocck F., Bässler C., Bradtka J., Hothorn T., Müller J. 2009. Lichen diversity in temperate montane forests is influenced by forest structure more than climate. <i>Forest Ecology and Management</i>. 258: 745-751.</p> <p>Vicol I. 2010. Preliminary study on epiphytic lichens as an indicator of environmental quality in forests from around Bucharest Municipality (Romania). <i>Analele Universităţii din Oradea - Fascicula Biologie</i>. 17 (1): 200-207.</p> <p>Vicol I. 2012. The sinstructure of epiphytic lichens within forests from the eastern part of Bucharest Municipality (Romania). <i>Botanica Serbica</i>. 36 (2): 131-137.</p> <p>Vicol I. 2016. Ecological patterns of lichen species abundance in mixed forests of Eastern Romania. <i>Annals of Forest Research</i>. 59 (2): 237-248.</p> <p>Vicol I. 2020. The role of forest structure as a determinant of epiphytic lichens within managed temperate deciduous forests (southern Romania). <i>Environmental Engineering and Management Journal</i>. 19 (5): 797-807.</p>
Mediterranean	11-59	<p>Aragón G., Abuja L., Belinchón R., Martínez I. 2015. Edge type determines the intensity of forest edge effect on epiphytic communities. <i>European Journal of Forest Research</i>. 134 (3): 443-451.</p> <p>Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i>. 426:188-195.</p> <p>Belinchón R., Martínez I., Escudero A., Aragón G., Valladares F. 2007. Edge effects on epiphytic communities in a Mediterranean <i>Quercus pyrenaica</i> forest. <i>Journal of Vegetation Science</i>. 18: 81-90.</p> <p>Brunialti G., Frati L., Loppi S. 2012. Fragmentation of Mediterranean oak forests affects the diversity of epiphytic lichens. <i>Nova Hedwigia</i>. 96 (1-2): 265-278.</p> <p>Cardós J.L.H., Martínez I., Calvo V., Aragón G. 2016. Epiphyte communities in Mediterranean fragmented forests: importance of the fragment size and the surroundings. <i>Landscape Ecology</i>. 31: 1975-1995.</p> <p>Nascimbene J., Lazzaro L., Benesperi R. 2015. Patterns of beta-diversity and similarity reveal biotic homogenization of epiphytic lichen communities associated with the spread of black locust forests. <i>Fungal Ecology</i>. 14: 1-7.</p>
Steppic	9-56	<p>Khodosovtsev O., Dymytrova L., Nadyeina O., Naumovych A., Khodosovtseva Y., Scheidegger C. 2013. A contribution to beech forest-associated epiphytic lichen-forming and lichenicolous fungi in Crimean Mts (Ukraine). <i>Flora Mediterranea</i>. 23: 57-68.</p> <p>Vicol I. 2011. Epiphytic lichens as indicators of environmental quality within forestry ecosystems from Bucharest Municipality metropolitan area. <i>International Symposium "The Environment and Industry"</i>. Held by National Research and Development Institute for Industrial Ecology, Crystal Palace Ballrooms, Bucharest, Romania, 16-18 November 2011. Publishing House EstFalia. 2: 303-309. ISSN 1843-5831.</p> <p>Vicol I. 2015. Synecological structure of the lichen synusia within forest natural reserves from the Moldavian Plateau (Romania). <i>Turkish Journal of Botany</i>. 39 (1): 189-197.</p>

Steppic	9-56	Vicol I. 2016. Ecological patterns of lichen species abundance in mixed forests of Eastern Romania. <i>Annals of Forest Research</i> . 59 (2): 237-248. Vicol I. 2020. The role of forest structure as a determinant of epiphytic lichens within managed temperate deciduous forests (southern Romania). <i>Environmental Engineering and Management Journal</i> . 19 (5): 797-807.
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Table S11. Variation in the number of epiphytic lichen species across European ecological regions corresponding references.

European ecological regions	Variation in epiphytic lichen number	References
Alps conifer and mixed forests	15-59	Nascimbene J., Lazzaro L., Benesperi R. 2015. Patterns of beta-diversity and similarity reveal biotic homogenization of epiphytic lichen communities associated with the spread of black locust forests. <i>Fungal Ecology</i> . 14: 1-7. Nascimbene J., Marini L. 2010. Oak forest exploitation and black-locust invasion caused severe shifts in epiphytic lichen communities in Northern Italy. <i>Science of the Total Environment</i> . 408: 5506-5512. Nascimbene J., Marini L., Nimis P.L. 2007. Influence of forest management on epiphytic lichens in a temperate beech forest of northern Italy. <i>Forest Ecology and Management</i> . 247: 43-47. Nascimbene J., Marini L., Nimis P.L. 2009. Influence of tree species on epiphytic macrolichens in temperate mixed forests of northern Italy. <i>Canadian Journal of Forest Research</i> . 39: 785-791. Nascimbene J., Marini L., Nimis P.L. 2010. Epiphytic lichen diversity in old-growth and managed <i>Picea abies</i> stands in Alpine spruce forests. <i>Forest Ecology and Management</i> . 260 (5): 603-609.
Appenine deciduous montane forests	21-56	Nascimbene J., Di Cecco V., Di Martino L., Frascaroli F., Giordani P., Lelli C., Vallese C., Zannini P., Chiarucci A. 2019. Epiphytic lichens of the sacred natural site “Bosco di Sant’Antonio” (Majella National Park – Abruzzo). <i>Italian Botanist</i> . 7: 149–156. Ravera S., Genovesi V., Falasca A., Marchetti M., Chirici G. 2010. Lichen diversity of old-growth forests in Molise (Central-Southern Italy). <i>Italian Journal of Forest and Mountain Environments</i> . 65 (5): 505-517.
Baltic mixed forests	17-22	Friedel A., Oheimb G.V., Dengler J., Härdtle W. 2006. Species diversity and species composition of epiphytic bryophytes and lichens – a comparison of managed and unmanaged beech forests in NE Germany. <i>Feddes Repertorium</i> . 117 (1-2): 172–185.
Caledon conifer forests	89-217	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. <i>Biological Conservation</i> . 226: 109443.
Cantabrian mixed forests	15-50	Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i> . 426:188–195. Calviño-Cancela M., López de Silanes M.E., Rubido-Bará M., Uribarri J. 2013. The potential role of tree plantations in providing habitat for lichen epiphytes. <i>Forest Ecology and Management</i> . 291: 386-395.

Carpathian montane forests	11-346	<p>Ardelean I.V., Keller C., Scheidegger C. 2013. Lichen flora of Rodnei Mountains National Park (Eastern Carpathians, Romania) including new records for the Romanian mycoflora. <i>Folia Cryptogamica Estonica</i> 50: 101-115.</p> <p>Çobanoğlu G., Yavuz M., Costache I., Radu I., Açıkgöz B., Baloniu L. 2009. Epiphytic and terricolous lichens diversity in Cozia National Park (Romania). <i>Oltenia. Studii și comunicări. Științele Naturii</i>. 25: 17-22.</p> <p>Çobanoğlu G., Yavuz M., Costache I., Radu I. 2011. Additional and new lichen records from Cozia National Park, Romania. <i>Mycotaxon</i>. 114: 193-196.</p> <p>Dymytrova L., Nadyeina O., Hobi M.L., Scheidegger C. 2014. Topographic and forest-stand variables determining epiphytic lichen diversity in the primeval beech forest in the Ukrainian Carpathians. <i>Biodiversity and Conservation</i>. 23: 1367–1394.</p> <p>Maliček J., Palice Z., Vondrák J., Kostovčík M., Lenzová V., Hofmeister J. 2019. Lichens in old-growth and managed mountain spruce forests in the Czech Republic: assessment of biodiversity, functional traits and bioindicators. <i>Biodiversity and Conservation</i>. 28: 3497-3528.</p> <p>Vicol I. 2011. Preliminary study using lichen species diversity as an indicator of local environmental quality within two nature reserves from Romania. <i>Analele Universității din Oradea - Fascicula Biologie</i>. 18 (1): 53-58.</p> <p>Vicol, I. 2015. Effect of old-growth forest attributes on lichen species abundances: a study performed within Ceahlău National Park (Romania), <i>Cryptogamie Mycologie</i>. 36(4): 399-407.</p> <p>Vondrák J., Maliček 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. <i>PLoS ONE</i>. 13 (9): e0203540.</p> <p>Vondrák J., Maliček J., Šoun J., Pouska V. 2015. Epiphytic lichens of Stučica (E Slovakia) in the context of Central European old-growth forests. <i>Herzogia</i>. 28 (1): 104–126.</p>
Caucasus mixed forests	537	<p>Vondrák J., Urbanavichus G., Palice Z., Maliček J., Urbanavichene I., Kubásek J., Ellis C. 2019. The epiphytic lichen biota of Caucasian virgin forests: a comparator for European conservation. <i>Biodiversity and Conservation</i>. 28: 3257–3276.</p>
Celtic broadleaf forests	14-216	<p>Brodeková L., Gilmer A., Dowding P., Fox H., Guttová A. 2006. An assessment of epiphytic lichen diversity and environmental quality in Knocksink Wood Nature Reserve, Ireland. <i>Biology and Environment: Proceedings of the Royal Irish Academy</i>. 106B (3): 215-223.</p> <p>Hofmeister J., Vondrák J., Ellis C., Coppins B., Sanderson N., Maliček 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. <i>Biological Conservation</i>. 226: 109443.</p>

Central European mixed forests	7-132	<p>Motiejūnaitė J. 2015. Lichens and allied fungi from the Čepkeliai State Nature Reserve (southern Lithuania). <i>Botanica Lithuanica</i>. 21 (1): 3-12.</p> <p>Hofmeister J., Hošek J., Malíček J., Palice Z., Syrovátková L., Steinová J., Černajová I. 2016. Large beech (<i>Fagus sylvatica</i>) trees as ‘lifeboats’ for lichen diversity in central European forests. <i>Biodiversity and Conservation</i>. 25: 1073-1090.</p> <p>Vicol I. 2010. Preliminary study on epiphytic lichens as an indicator of environmental quality in forests from around Bucharest Municipality (Romania). <i>Analele Universității din Oradea - Fascicula Biologie</i>. 17 (1): 200-207.</p> <p>Vicol I. 2011. Epiphytic lichens as indicators of environmental quality within forestry ecosystems from Bucharest Municipality metropolitan area. <i>International Symposium "The Environment and Industry"</i>. Held by National Research and Development Institute for Industrial Ecology, Crystal Palace Ballrooms, Bucharest, Romania, 16-18 November 2011. Publishing House EstFalia. 2: 303-309. ISSN 1843-5831.</p> <p>Vicol I. 2012. The sinstructure of epiphytic lichens within forests from the eastern part of Bucharest Municipality (Romania). <i>Botanica Serbica</i>. 36 (2): 131-137.</p> <p>Vicol I. 2016. Ecological patterns of lichen species abundance in mixed forests of Eastern Romania. <i>Annals of Forest Research</i>. 59 (2): 237-248.</p> <p>Vicol I. 2020. The role of forest structure as a determinant of epiphytic lichens within managed temperate deciduous forests (southern Romania). <i>Environmental Engineering and Management Journal</i>. 19 (5): 797-807.</p>
Crimean Submediterranean forest complex	56	<p>Khodosovtsev O., Dymytrova L., Nadyeina O., Naumovych A., Khodosovtseva Y., Scheidegger C. 2013. A contribution to beech forest-associated epiphytic lichen-forming and lichenicolous fungi in Crimean Mts (Ukraine). <i>Flora Mediterranea</i>. 23: 57-68.</p>
East European forest steppe	12-19	<p>Vicol I. 2015. Synecological structure of the lichen synusia within forest natural reserves from the Moldavian Plateau (Romania). <i>Turkish Journal of Botany</i>. 39 (1): 189-197.</p> <p>Vicol I. 2016. Ecological patterns of lichen species abundance in mixed forests of Eastern Romania. <i>Annals of Forest Research</i>. 59 (2): 237-248.</p>
English lowlands beech forests	161-179	<p>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. <i>Biological Conservation</i>. 226: 109443.</p>
Iberian conifer forests	41	<p>Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i>. 426:188–195.</p>

Iberian sclerophyllous and semi-deciduous forests	11-59	Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i> . 426 :188–195. Belinchón R., Martínez I., Escudero A., Aragón G., Valladares F. 2007. Edge effects on epiphytic communities in a Mediterranean <i>Quercus pyrenaica</i> forest. <i>Journal of Vegetation Science</i> . 18 : 81-90. Cardós J.L.H., Martínez I., Calvo V., Aragón G. 2016. Epiphyte communities in Mediterranean fragmented forests: importance of the fragment size and the surroundings. <i>Landscape Ecology</i> . 31 : 1975-1995.
Italian sclerophyllous and semi-deciduous forests	54	Brunialti G., Frati L., Loppi S. 2012. Fragmentation of Mediterranean oak forests affects the diversity of epiphytic lichens. <i>Nova Hedwigia</i> . 96 (1-2): 265-278.
Northwest Iberian montane forests	60	Aragón G., Martínez I., García A. 2012. Loss of epiphytic diversity along a latitudinal gradient in southern Europe. <i>Science of the Total Environment</i> . 426 :188–195.
Pannonian mixed forests	113	Bilovitz P.O., Batič F., Mayrhofer H. 2011. Epiphytic lichen mycota of the virgin forest reserve Rajhenavski Rog (Slovenia). <i>Herzogia</i> . 24 (2): 315–324.
Scandinavian montane birch forests and grasslands	56-60	Werth S., Tømmervik H., Elvebakk A. 2005. Epiphytic macrolichen communities along regional gradients in northern Norway. <i>Journal of Vegetation Science</i> . 16 : 199-208.
Scandinavian and Russian taiga	57	Bäcklund S., Jönsson M., Strengbom J., Frisch A., Thor G. 2016. A pine is a pine and a spruce is a spruce – The effect of tree species and stand age on epiphytic lichen communities. <i>PLoS ONE</i> . 11 (1): e0147004.
Western European broadleaf forests	12-138	Dittrich S., Hauck M., Schweigatz D., Dörfler I., Hühne R., Bade C., Jacob M., Leuschner C. 2013. Separating forest continuity from tree age effects on plant diversity in the ground and epiphyte vegetation of a Central European mountain spruce forest. <i>Flora</i> . 208 (4): 238-246. Dittrich S., Jacob M., Bade C., Leuschner C., Hauck M. 2014. The significance of deadwood for total bryophyte, lichen, and vascular plant diversity in an old-growth spruce forest. <i>Plant Ecology</i> . 215 : 1123-1137. Hofmeister J., Hošek J., Malíček J., Palice Z., Syrovátková L., Steinová J., Černajová I. 2016. Large beech (<i>Fagus sylvatica</i>) trees as ‘lifeboats’ for lichen diversity in central European forests. <i>Biodiversity and Conservation</i> . 25 : 1073-1090. Malíček J., Palice Z., Vondrák J., Kostovčík M., Lenzová V., Hofmeister J. 2019. Lichens in old-growth and managed mountain spruce forests in the Czech Republic: assessment of biodiversity, functional traits and bioindicators. <i>Biodiversity and Conservation</i> . 28 : 3497-3528. Moning C., Werth S., Dziöck F., Bäessler C., Bradtka J., Hothorn T., Müller J. 2009. Lichen diversity in temperate montane forests is influenced by forest structure more than climate. <i>Forest Ecology and Management</i> . 258 : 745-751.

**References of these data are given in Table S5 in Supplementary Informations
Table S9. Total epiphytic lichen richness recorded based on reviewed articles.
Index fungorum update**

<i>Abrothallus parmeliarum</i> (Sommerf.) Arnold 1874
<i>Absconditella delutula</i> (Nyl.) Coppins & H. Kiliás
<i>Absconditella lignicola</i> Vězda & Pišút
<i>Absconditella rubra</i> van den Boom, M. Brand & Suija
<i>Acarospora fuscata</i> (Ach.) Arnold
<i>Acolium inquinans</i> (Sm.) A. Massal.
<i>Acolium karelicum</i> (Vain.) M. Prieto & Wedin
<i>Acrocordia gemmata</i> (Ach.) A. Massal.
<i>Agonimia allobata</i> (Stizenb.) P. James
<i>Agonimia borysthenica</i> Dymytrova, Breuss & S.Y. Kondr.
<i>Agonimia flabelliformis</i> J.P. Halda, Czarnota & Guzow-Krzem.
<i>Agonimia octospora</i> Coppins & P. James
<i>Agonimia opuntiella</i> (Buschardt & Poelt) Vězda
<i>Agonimia repleta</i> Czarnota & Coppins
<i>Agonimia tristicula</i> (Nyl.) Zahlbr.
<i>Alectoria sarmentosa</i> (Ach.) Ach.
<i>Allographa ruiziana</i> (Fée) Lücking & Kalb
<i>Alyxoria culmigena</i> (Lib.) Ertz
<i>Alyxoria ochrocheila</i> (Nyl.) Ertz & Tehler
<i>Alyxoria varia</i> (Pers.) Ertz & Tehler
<i>Alyxoria viridipruinosa</i> (Coppins & Yahr) Ertz
<i>Amandinea punctata</i> (Hoffm.) Coppins & Scheid.
<i>Anaptychia ciliaris</i> (L.) Körb. ex A. Massal.
<i>Anisomeridium biforme</i> (Schaer.) R.C. Harris
<i>Anisomeridium polypori</i> (Ellis & Everh.) M.E. Barr
<i>Anisomeridium ranunculosporum</i> (Coppins & P. James) Coppins
<i>Anisomeridium robustum</i> Orange, Coppins & Aptroot
<i>Anisomeridium viridescens</i> (Coppins) R.C. Harris
<i>Anisomeridium macrocarpum</i> (Körb.) V. Wirth
<i>Aplotomma turgidum</i> (A. Massal.) A. Massal. ex Beltr.
<i>Aquacidia viridifarinosa</i> (Coppins & P. James) Aptroot
<i>Arctomia delicatula</i> Th. Fr.
<i>Arctomia fascicularis</i> (L.) Otálora & Wedin
<i>Arthonia anglica</i> Coppins

Arthonia atra (Pers.) A. Schneid.

Arthonia didyma Körb.

Arthonia elegans (Ach.) Almq.

Arthonia excipienda (Nyl.) Leight.

Arthonia ilicina Taylor

Arthonia invadens Coppins

Arthonia mediella Nyl.

Arthonia punctiformis Ach.

Arthonia radiata (Pers.) Ach.

Arthonia stellaris Kremp.

Arthonia vinosa Leight.

Arthonia excipienda (Nyl.) Leight.

Arthonia glaucella Nyl.

Arthonia helvola (Nyl.) Nyl.

Arthonia incarnata Kullh. ex Almq.

Arthopyrenia analepta (Ach.) A. Massal.

Arthopyrenia carneobrunneola Coppins

Arthopyrenia cerasi (Schrad.) A. Massal.

Arthopyrenia cinereopruinosa (Schaer.) A. Massal.

Arthopyrenia salicis A. Massal.

Arthopyrenia subcerasi (Vain.) Zahlbr.

Arthothelium macounii (G. Merr.) W.J. Noble

Arthothelium orbilliferum (Almq.) Hasse

Arthothelium ruanum (A. Massal.) Körb.

Arthothelium spectabile A. Massal.

Arthrorhaphis grisea Th. Fr.

Athallia cerinella (Nyl.) Arup, Frödén & Söchting

Athallia cerinelloides (Erichsen) Arup, Frödén & Söchting

Athallia holocarpa (Hoffm.) Arup, Frödén & Söchting

Athallia pyracea (Ach.) Arup, Frödén & Söchting

Bacidia absistens (Nyl.) Arnold

Bacidia albogranulosa Malíček, Palice, Vondrák & Kukwa

Bacidia arceutina (Ach.) Th. Fr.

Bacidia beckhausii Körb.

Bacidia biatorina (Körb.) Vain.

Bacidia caesiovirens S. Ekman & Holien

Bacidia circumspeta (Norrl. & Nyl.) Malme

<i>Bacidia laurocerasi</i> (Delise ex Duby) Zahlbr.
<i>Bacidia polychroa</i> (Th. Fr.) Körb.
<i>Bacidia pycnidiata</i> Czarnota & Coppins
<i>Bacidia rosella</i> (Pers.) De Not.
<i>Bacidia rubella</i> (Hoffm.) A. Massal.
<i>Bacidia squamellosa</i> (S. Ekman) Coppins & Aptroot
<i>Bacidia viridescens</i> (A. Massal.) Hellb.
<i>Bacidia fraxinea</i> Lönnr.
<i>Bacidina assulata</i> (Körb.) S. Ekman
<i>Bacidina brandii</i> (Coppins & van den Boom) M. Hauck & V. Wirth
<i>Bacidina caligans</i> (Nyl.) Llop & Hladun
<i>Bacidina chlorotricula</i> (Nyl.) Vězda & Poelt
<i>Bacidina delicata</i> (Larbal. ex Leight.) V. Wirth & Vězda
<i>Bacidina egenula</i> (Nyl.) Vězda
<i>Bacidina neosquamulosa</i> (Aptroot & Herk) S. Ekman
<i>Bacidina phacodes</i> (Körb.) Vězda
<i>Bacidina sulphurella</i> (Samp.) M. Hauck & V. Wirth
<i>Bactrospora corticola</i> (Fr. ex Nyl.) Almq.
<i>Bactrospora dryina</i> (Ach.) A. Massal.
<i>Bactrospora homalotropa</i> (Nyl.) Egea & Torrente
<i>Baeomyces rufus</i> (Huds.) Rebent.
<i>Bellemerea cinereorufescens</i> (Ach.) Clauzade & Cl. Roux
<i>Bellicidia incompta</i> (Borrer) Kistenich, Timdal, Bendiksby & S. Ekman
<i>Biatora amylacea</i> ined.
<i>Biatora bacidioides</i> Printzen & Tønsberg
<i>Biatora britannica</i> Printzen, Lumbsch & Orange
<i>Biatora carneoalbida</i> (Müll. Arg.) Coppins
<i>Biatora chrysantha</i> (Zahlbr.) Printzen
<i>Biatora efflorescens</i> (Hedl.) Räsänen
<i>Biatora epixanthoides</i> (Nyl.) Diederich
<i>Biatora globulosa</i> (Flörke) Fr.
<i>Biatora longispora</i> (Degel.) Lendemer & Printzen
<i>Biatora meiocarpa</i> (Nyl.) Arnold
<i>Biatora pontica</i> Printzen & Tønsberg
<i>Biatora raditicola</i> Printzen, Palice & J.P. Halda
<i>Biatora troendelagica</i> Holien & Printzen
<i>Biatora vernalis</i> (L.) Fr.

Biatora veteranorum Coppins & Sérus.

Biatora betulicola Kullh.

Biatora fallax Hepp

Biatora mendax Arnold

Biatoridium delitescens (Arnold) Hafellner

Biatoridium monasteriense J. Lahm ex Körb.

Biatoropsis usnearum Räsänen

Bibbya vermifera (Nyl.) Kistenich, Timdal, Bendiksby & S. Ekman

Bilimbia sabuletorum (Schreb.) Arnold

Bilimbia tetramera De Not.

Blastenia ferruginea (Huds.) A. Massal.

Brianaria sylvicola (Flot. ex Körb.) S. Ekman & M. Svenss. 2014

Bryobilimbia hypnorum (Lib.) Fryday, Printzen & S. Ekman

Bryobilimbia sanguineoatra (Wulfen) Fryday, Printzen & S. Ekman

Bryoria bicolor (Hoffm.) Brodo & D. Hawksw.

Bryoria capillaris (Ach.) Brodo & D. Hawksw.

Bryoria furcellata (Fr.) Brodo & D. Hawksw.

Bryoria fuscescens (Gyeln.) Brodo & D. Hawksw.

Bryoria implexa (Hoffm.) Brodo & D. Hawksw.

Bryoria lanestris (Ach.) Brodo & D. Hawksw.

Bryoria nadvornikiana (Gyeln.) Brodo & D. Hawksw.

Bryoria subcana (Nyl. ex Stizenb.) Brodo & D. Hawksw.

Bryoria fremontii (Tuck.) Brodo & D. Hawksw.

Bryoria fuscescens var. *fuscenscens* (Gyeln.) Brodo & D. Hawksw.

Bryoria glabra (Motyka) Brodo & D. Hawksw.

Bryoria simplicior (Vain.) Brodo & D. Hawksw.

Bryostigma apateticum (A.Massal.) ined.

Bryostigma biatoricola (Ihlen & Owe-Larss.) S.Y. Kondr. & Hur

Bryostigma lapidicola (Taylor) S.Y. Kondr. & Hur

Bryostigma muscigenum (Th. Fr.) Frisch & G. Thor

Buellia arborea Coppins & Tønsberg

Buellia disciformis (Fr.) Mudd

Buellia erubescens Arnold

Buellia griseovirens (Turner & Borrer ex Sm.) Almb.

Buellia hyperbolica Bagl.

Buellia schaeereri De Not.

Bunodophoron melanocarpum (Sw.) Wedin

Byssoloma marginatum (Arnold) Sérus.

Calicium abietinum Pers.

Calicium adpersum Pers.

Calicium diploellum Nyl.

Calicium glaucellum Ach.

Calicium hyperelloides Nyl.

Calicium lenticulare Ach.

Calicium parvum Tibell

Calicium salicinum Pers.

Calicium tigillare (Ach.) Pers.

Calicium trabinellum (Ach.) Ach.

Calicium viride Pers.

Calicium pinastri Tibell

Caloplaca cerina (Hedw.) Th. Fr.

Caloplaca herbidella (Hue) H. Magn.

Caloplaca obscurella (J. Lahm ex Körb.) Th. Fr.

Caloplaca virescens (Sm.) Coppins

Caloplaca alstrupii Søchting

Caloplaca cerina var. *cerina* (Hedw.) Th. Fr.

Caloplaca monacensis (Leder.) Lettau

Caloplaca turkuensis (Vain.) Zahlbr.

Candelaria concolor (Dicks.) Arnold

Candelariella efflorescens R.C. Harris & W.R. Buck

Candelariella reflexa (Nyl.) Lettau

Candelariella vitellina (Hoffm.) Müll. Arg.

Candelariella xanthostigma (Pers. ex Ach.) Lettau

Candelariella faginea Nimis, Poelt & Puntillo

Carbonicola anthracophila (Nyl.) Bendiksby & Timdal

Catapyrenium psoromoides (Borrer) R. Sant.

Catillaria nigroclavata (Nyl.) J. Steiner

Catinaria atropurpurea (Schaer.) Vězda & Poelt

Catinaria isidioides

Catinaria neuschildii (Körb.) P. James

Celothelium ischnobelum (Nyl.) M.B. Aguirre

Cetraria sepincola (Ehrh.) Ach.

Cetraria islandica subsp. *islandica* (L.) Ach.

Cetrelia cetrarioides (Delise) W.L. Culb. & C.F. Culb.

Cetrelia chicitae (W.L. Culb.) W.L. Culb. & C.F. Culb.

Cetrelia monachorum (Zahlbr.) W.L. Culb. & C.F. Culb.

Cetrelia olivetorum (Nyl.) W.L. Culb. & C.F. Culb.

Chaenotheca brachypoda (Ach.) Tibell

Chaenotheca brunneola (Ach.) Müll. Arg.

Chaenotheca chrysocephala (Ach.) Th. Fr.

Chaenotheca confusa Tibell

Chaenotheca ferruginea (Turner) Mig.

Chaenotheca furfuracea (L.) Tibell

Chaenotheca gracilenta (Ach.) Mattsson & Middelb.

Chaenotheca gracillima (Vain.) Tibell

Chaenotheca hispidula (Ach.) Zahlbr.

Chaenotheca laevigata Nádv.

Chaenotheca phaeocephala (Turner) Th. Fr.

Chaenotheca stemonea (Ach.) Müll. Arg.

Chaenotheca trichialis (Ach.) Hellb.

Chaenotheca xyloxena Nádv.

Chaenotheca sphaerocephala Nádv.

Chaenotheca subroscida (Eitner) Zahlbr.

Chaenothecopsis debilis (Sm.) Tibell

Chaenothecopsis epithallina Tibell

Chaenothecopsis nana Tibell

Chaenothecopsis nigra Tibell

Chaenothecopsis pusilla (Ach.) A.F.W. Schmidt

Chaenothecopsis pusiola (Ach.) Vain.

Chaenothecopsis savonica (Räsänen) Tibell

Chaenothecopsis vainioana (Nádv.) Tibell

Chaenothecopsis viridialba (Kremp.) A.F.W. Schmidt

Chaenothecopsis viridireagens (Nádv.) A.F.W. Schmidt

Chaenothecopsis amurensis Titov

Cheiromycina petri D. Hawksw. & Poelt

Chrysothrix caesia (Flot.) Ertz & Tehler

Chrysothrix candelaris (L.) J.R. Laundon

Chrysothrix flavovirens Tønsberg

Circinaria caesiocinerea (Nyl. ex Malbr.) A. Nordin, Savić & Tibell

Cladonia bellidiflora (Ach.) Schaer.

Cladonia botrytes (K.G. Hagen) Willd.

Cladonia caespiticia (Pers.) P. Gaertn., B. Mey & Scherb.

Cladonia carneola (Fr.) Fr.

Cladonia cenotea (Ach.) Schaer.

Cladonia cervicornis (Ach.) Flot.

Cladonia chlorophaea (Flörke ex Sommerf.) Spreng.

Cladonia coccifera (L.) Willd.

Cladonia coniocraea (Flörke) Spreng.

Cladonia cornuta (L.) Baumg.

Cladonia cyathomorpha Stirt. ex Walt. Watson

Cladonia deformis (L.) Hoffm.

Cladonia digitata (L.) Baumg.

Cladonia fimbriata (L.) Fr.

Cladonia floerkeana (Fr.) Flörke

Cladonia furcata (Huds.) Baumg.

Cladonia glauca Flörke

Cladonia gracilis (L.) Willd.

Cladonia grayi G. Merr. ex Sandst.

Cladonia incrassata Flörke

Cladonia macilenta Hoffm.

Cladonia merochlorophaea Asahina

Cladonia norvegica Tønsberg & Holien

Cladonia ochrochlora Flörke

Cladonia parasitica (Hoffm.) Hoffm.

Cladonia pleurota (Flörke) Schaer.

Cladonia polydactyla (Flörke) Spreng.

Cladonia portentosa (Dufour) Coem.

Cladonia pyxidata (L.) Hoffm.

Cladonia ramulosa (With.) J.R. Laundon

Cladonia squamosa Hoffm.

Cladonia subulata (L.) Weber ex F.H. Wigg.

Cladonia sulphurina (Michx.) Fr.

Cladonia uncialis (L.) Weber ex F.H. Wigg.

Cladonia furcata subsp. *furcata* (Huds.) Schrad.

Cladonia macilenta subsp. *macilenta* Hoffm.

Cladonia pyxidata subsp. *pyxidata* (L.) Hoffm.

Cladonia squamosa var. *squamosa* Hoffm.

Cladonia uncialis subsp. *uncialis* (L.) Weber ex F.H. Wigg.

<i>Cliostomum corrugatum</i> (Ach.) Fr.
<i>Cliostomum flavidulum</i> Hafellner & Kalb
<i>Cliostomum griffithii</i> (Sm.) Coppins
<i>Coenogonium luteum</i> (Dicks.) Kalb & Lücking
<i>Coenogonium pineti</i> (Ach.) Lücking & Lumbsch
<i>Coenogonium tavaresianum</i> (Vězda) Lücking, Aptroot & Sipman
<i>Collema flaccidum</i> (Ach.) Ach.
<i>Collema furfuraceum</i> (Schaer.) Du Rietz
<i>Collema nigrescens</i> (Huds.) DC.
<i>Collema subflaccidum</i> Degel.
<i>Collema subnigrescens</i> Degel.
<i>Coniocarpon cinnabarinum</i> DC., in Lamarck & de Candolle
<i>Coppinsiella substerilis</i> (Vondrák, Palice & van den Boom) S.Y. Kondr. & Lőkös
<i>Cresponea premnea</i> (Ach.) Egea & Torrente
<i>Crutarndina petractoides</i> (P.M. Jørg. & Brodo) Parmen, Lücking & Lumbsch
<i>Cryptodiscus foveolaris</i> (Rehm) Rehm
<i>Cryptodiscus gloeocapsa</i> (Nitschke ex Arnold) Baloch, Gilenstam & Wedin
<i>Cryptolechia carneolutea</i> (Turner) A. Massal.
<i>Cyrtidula quercus</i> (A. Massal.) Minks
<i>Dendrographa decolorans</i> (Turner & Borrer) Ertz & Tehler
<i>Diarthonis spadicea</i> (Leight.) Frisch, Ertz, Coppins & P.F. Cannon
<i>Dichoporis phaea</i> (Ach.) S.H. Jiang, Lücking & Sérus.
<i>Dichoporis taylorii</i> (Carroll ex Nyl.) S.H. Jiang, Lücking & Sérus.
<i>Dictyocatenulata alba</i> Finley & E.F. Morris
<i>Diderma radiatum</i> (L.) Morgan
<i>Diploschistes muscorum</i> (Scop.) R. Sant.
<i>Diplotomma alboatrum</i> (Hoffm.) Flot.
<i>Dolichousnea longissima</i> (Ach.) Articus
<i>Elixia flexella</i> (Ach.) Lumbsch
<i>Enterographa brezhonega</i> Sparrius & Aptroot
<i>Enterographa crassa</i> (DC.) Fée
<i>Enterographa hutchinsiae</i> (Leight.) A. Massal.
<i>Enterographa sorediata</i> Coppins & P. James
<i>Eopyrenula grandicula</i> Coppins
<i>Eopyrenula leucoplaca</i> (Wallr.) R.C. Harris
<i>Evernia prunastri</i> (L.) Ach.
<i>Evernia divaricata</i> (L.) Ach.

<i>Evernia mesomorpha</i> Nyl.
<i>Felipes leucopellaeus</i> (Ach.) Frisch & G. Thor
<i>Fellhanera bouteillei</i> (Desm.) Vězda
<i>Fellhanera gyrophorica</i> Sérus., Coppins, Diederich & Scheid.
<i>Fellhanera subtilis</i> (Vězda) Diederich & Sérus.
<i>Fellhanera viridisorediata</i> Aptroot, M. Brand & Spier
<i>Fellhaneropsis myrtillicola</i> (Erichsen) Sérus. & Coppins
<i>Fellhaneropsis vezdae</i> (Coppins & P. James) Sérus. & Coppins
<i>Flavoparmelia caperata</i> (L.) Hale
<i>Flavoparmelia soledians</i> (Nyl.) Hale
<i>Flavoplaca flavocitrina</i> (Nyl.) Arup, Frödén & Söchting
<i>Flavopunctelia flaventior</i> (Stirt.) Hale
<i>Frutidella furfuracea</i> (Anzi) M. Westb. & M. Svenss.
<i>Frutidella pullata</i> (Norman) Schmall
<i>Fuscidea arboricola</i> Coppins & Tønsberg
<i>Fuscidea cyathoides</i> (Ach.) V. Wirth & Vězda
<i>Fuscidea lightfootii</i> (Sm.) Coppins & P. James
<i>Fuscidea praeurptorum</i> (Du Rietz & H. Magn.) V. Wirth & Vězda
<i>Fuscidea pusilla</i> Tønsberg
<i>Fuscopannaria ignobilis</i> (Anzi) P.M. Jørg.
<i>Fuscopannaria mediterranea</i> (Tav.) P.M. Jørg.
<i>Fuscopannaria olivacea</i> (P.M. Jørg.) P.M. Jørg.
<i>Gallowayella fulva</i> (Hoffm.) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, Hur & A. Thell
<i>Glaucomaria carpinea</i> (L.) S.Y. Kondr., Lőkös & Farkas
<i>Glaucomaria leptyroides</i> (G.B.F. Nilsson) S.Y. Kondr., Lőkös & Farkas
<i>Glaucomaria subcarpinea</i> (Szatala) S.Y. Kondr., Lőkös & Farkas
<i>Gomphillus calycioides</i> (Delise ex Duby) Nyl.
<i>Graphina anguina</i> (Mont.) Müll. Arg.
<i>Graphis elegans</i> (Borrer ex Sm.) Ach.
<i>Graphis inustuloides</i> Lücking
<i>Graphis scripta</i> (L.) Ach.
<i>Graphis macrospora</i> Kremp.
<i>Gyalecta derivata</i> (Nyl.) Vain.
<i>Gyalecta flotovii</i> Körb.
<i>Gyalecta herculina</i> (Rehm) Baloch, Lumbsch & Wedin
<i>Gyalecta ophiospora</i> (Lettau) Baloch & Lücking

Gyalecta truncigena (Ach.) Hepp

Gyalecta ulmi (Sw.) Zahlbr.

Gyalecta croatica Zahlbr.

Gyalideopsis helvetica van den Boom & Vězda

Gyalideopsis muscicola P. James & Vězda

Gyrographa gyrocarpa (Flot.) Ertz & Tehler

Haematomma ochroleucum (Neck.) J.R. Laundon

Halecania viridescens Coppins & P. James

Hazslinszkya gibberulosa (Ach.) Körb.

Heterodermia obscurata (Nyl.) Trevis.

Heterodermia speciosa (Wulfen) Trevis.

Hyperphyscia adglutinata (Flörke) H. Mayrhofer & Poelt

Hypocenomyce scalaris (Ach.) M. Choisy

Hypocenomyce stoechadiana Abbassi Maaf & Cl. Roux

Hypogymnia farinacea Zopf

Hypogymnia hultenii (Degel.) Krog

Hypogymnia physodes (L.) Nyl.

Hypogymnia tubulosa (Schaer.) Hav.

Hypogymnia vittata (Ach.) Parrique

Hypogymnia austerodes (Nyl.) Räsänen

Hypogymnia bitteri (Lynge) Ahti

Hypotrachyna afrorevoluta (Krog & Swinscow) Krog & Swinscow

Hypotrachyna horrescens (Taylor) Krog & Swinscow

Hypotrachyna laevigata (Sm.) Hale

Hypotrachyna minarum (Vain.) Krog & Swinscow

Hypotrachyna revoluta (Flörke) Hale

Hypotrachyna sinuosa (Sm.) Hale

Hypotrachyna taylorensis (M.E. Mitch.) Hale

Hysteropatella prostii (Duby) Rehm

Icmadophila ericetorum (L.) Zahlbr.

Imshaugia aleurites (Ach.) S.L.F. Mey.

Inoderma byssaceum (Weigel) Gray

Inoderma subabietinum (Coppins & P. James) Ertz & Frisch

Ivanpisutia ocelliformis (Nyl.) S.Y. Kondr.

Jamesiella anastomosans (P. James & Vězda) Lücking, Sérus. & Vězda

Japewia dasaea ined.

Japewia subaurifera Muhr & Tønsberg

Japewia tornoenensis (Nyl.) Tønsberg

Karstenia rhopaloides (Sacc.) Baral

Kirschsteiniothelia atra (Corda) D. Hawksw.

Kirschsteiniothelia recessa (Cooke & Peck) D. Hawksw.

Koerberia bififormis A. Massal.

Lambiella furvella (Nyl. ex Mudd) M. Westb. & Resl

Lasallia pustulata (L.) Mérat

Lathagrium auriforme (With.) Otálora, P.M. Jørg. & Wedin

Lecanactis abietina (Ach.) Körb.

Lecania croatica (Zahlbr.) Kotlov

Lecania cyrtella (Ach.) Th. Fr.

Lecania cyrtellina (Nyl.) Zahlbr.

Lecania naegelii (Hepp) Diederich & van den Boom

Lecanographa lyncea (Sm.) Egea & Torrente

Lecanora aitema (Ach.) Hepp

Lecanora albella (Pers.) Ach.

Lecanora albellula (Nyl.) Th. Fr.

Lecanora alboflavida Taylor

Lecanora argentata (Ach.) Röhl.

Lecanora barkmaniana Aptroot & Herk

Lecanora cadubriae (A. Massal.) Hedl.

Lecanora campestris (Schaer.) Hue

Lecanora chlarotera Nyl.

Lecanora cinereofusca H. Magn.

Lecanora compallens Herk & Aptroot

Lecanora confusa Almb.

Lecanora expallens Ach.

Lecanora farinacea Fée

Lecanora farinaria Borrer

Lecanora gangaleoides Nyl.

Lecanora glabrata (Ach.) Malme

Lecanora horiza (Ach.) Röhl.

Lecanora hybocarpa (Tuck.) Brodo

Lecanora hypoptella (Nyl.) Grummann

Lecanora intricata (Ach.) Ach.

Lecanora intumescens (Rebent.) Rabenh.

Lecanora jamesii J.R. Laundon

Lecanora polytropa (Hoffm.) Rabenh.

Lecanora pulicaris (Pers.) Ach.

Lecanora rugosella Zahlbr.

Lecanora saligna (Schrad.) Zahlbr.

Lecanora sarcopidoides (A. Massal.) Hedl.

Lecanora stanislai Guzew-Krzem., Łubek, Malíček & Kukwa

Lecanora strobilina (Spreng.) Kieff.

Lecanora subfusca (L.) Ach.

Lecanora subintricata (Nyl.) Th. Fr.

Lecanora subrugosa Nyl.

Lecanora subsaligna M. Brand & van den Boom

Lecanora substerilis Malíček & Vondrák

Lecanora symmicta (Ach.) Ach.

Lecanora umbrina (Ach.) A. Massal.

Lecanora campestris subsp. *campestris* (Schaer.) Hue

Lecanora circumborealis Brodo & Vítik.

Lecanora exspersa Nyl.

Lecanora impudens Degel.

Lecanora norvegica Tønsberg

Lecanora phaeostigma (Körb.) Almb.

Lecanora symmicta var. *symmicta* (Ach.) Ach.

Lecidea albofuscescens Nyl.

Lecidea albohyalina (Nyl.) Th. Fr.

Lecidea berengeriana (A. Massal.) Nyl.

Lecidea erythrophaea Flörke ex Sommerf.

Lecidea helvola (Körb. ex Hellb.) Th. Fr.

Lecidea leprarioides Tønsberg

Lecidea nylanderii (Anzi) Th. Fr.

Lecidea turgidula Fr.

Lecidea turficola (Hellb.) Th. Fr.

Lecidella albida Hafellner

Lecidella carpathica Körb.

Lecidella elaeochroma (Ach.) M. Choisy

Lecidella euphorea (Flörke) Kremp.

Lecidella flavosorediata (Vězda) Hertel & Leuckert

Lecidella pulveracea (Flot. ex Schaer.) P. Syd.

Lecidella subviridis Tønsberg

<i>Lecidella achristotera</i> (Nyl.) Hertel & Leuckert
<i>Lecidella elaeochroma</i> f. <i>elaeochroma</i> (Ach.) M. Choisy
<i>Lendemeriella lucifuga</i> (G. Thor) S.Y. Kondr.
<i>Lendemeriella sorocarpa</i> (Vain.) S.Y. Kondr.
<i>Lepra albescens</i> (Huds.) Hafellner
<i>Lepra amara</i> (Ach.) Hafellner
<i>Lepra multipuncta</i> (Turner) Hafellner
<i>Lepra ophthalmiza</i> (Nyl.) Hafellner
<i>Lepra pulvinata</i> (Erichsen) Hafellner
<i>Lepra trachythallina</i> (Erichsen) Lendemer & R.C. Harris
<i>Lepra waghornei</i> (Hulting) Lendemer & R.C. Harris
<i>Lepraria eburnea</i> J.R. Laundon
<i>Lepraria elobata</i> Tønsberg
<i>Lepraria incana</i> (L.) Ach.
<i>Lepraria jackii</i> Tønsberg
<i>Lepraria lobificans</i> Nyl.
<i>Lepraria membranacea</i> (Dicks.) Vain.
<i>Lepraria rigidula</i> (B. de Lesd.) Tønsberg
<i>Lepraria sylvicola</i> Orange
<i>Lepraria umbricola</i> Tønsberg
<i>Lepraria vouauxii</i> (Hue) R.C. Harris
<i>Leptoplaca chrysodeta</i> (Vain.) J.R. Laundon ex Ahti
<i>Leptogidium dendriscum</i> (Nyl.) Nyl.
<i>Leptogium brebissonii</i> Mont.
<i>Leptogium burgessii</i> (L.) Mont.
<i>Leptogium cochleatum</i> (Dicks.) P.M. Jørg. & P. James
<i>Leptogium coralloideum</i> (Meyen & Flot.) Vain.
<i>Leptogium cyanescens</i> (Ach.) Körb.
<i>Leptogium furfuraceum</i> (Harm.) Sierk
<i>Leptogium hibernicum</i> M.E. Mitch. ex P.M. Jørg.
<i>Leptogium quercicola</i> Otálora, Aragón, I. Martínez & M.C. Molina
<i>Leptogium saturninum</i> (Dicks.) Nyl.
<i>Leptogium teretiusculum</i> Wallr. ex Arnold
<i>Leptorhaphis epidermidis</i> (Ach.) Th. Fr.
<i>Leptorhaphis maggiana</i> (A. Massal.) Körb.
<i>Leptosillia wienkampii</i> (J. Lahm ex Hazsl.) Voglmayr & Jaklitsch
<i>Letharia vulpina</i> (L.) Hue

<i>Leucodermia leucomelos</i> (L.) Kalb
<i>Lichenocodium erodens</i> M.S. Christ. & D. Hawksw.
<i>Lichenomphalia umbellifera</i> (L.) Redhead, Lutzoni, Moncalvo & Vilgalys
<i>Lichenostigma maureri</i> Hafellner
<i>Lithocalla ecorticata</i> (J.R. Laundon) Orange
<i>Lithothelium hyalosporum</i> (Nyl.) Aptroot
<i>Lobaria hallii</i> (Tuck.) Zahlbr.
<i>Lobaria pulmonaria</i> (L.) Hoffm.
<i>Lobarina scrobiculata</i> (Scop.) Nyl. ex Cromb.
<i>Lopadium disciforme</i> (Flot.) Kullh.
<i>Lophiostoma corticola</i> (Fuckel) E.C.Y. Liew, Aptroot & K.D. Hyde
<i>Loxospora cismonica</i> (Beltr.) Hafellner
<i>Loxospora confusa</i> Lendemer
<i>Loxospora cristinae</i> Guzow-Krzem., Łubek, Kubiak & Kukwa
<i>Loxospora elatina</i> (Ach.) A. Massal.
<i>Marchantiana asserigena</i> (Stizenb. ex J. Lahm) Søchting & Arup
<i>Maronea constans</i> (Nyl.) Hepp
<i>Megalaria grossa</i> (Pers. ex Nyl.) Hafellner
<i>Megalaria laureri</i> (Hepp ex Th. Fr.) Hafellner
<i>Megalaria pulverea</i> (Borrer) Hafellner & E. Schreiner
<i>Megalospora tuberculosa</i> (Fée) Sipman
<i>Megaspora verrucosa</i> (Ach.) Arcadia & A. Nordin
<i>Melanelia glabratula</i> subsp. <i>glabratula</i> (Lamy) Essl.
<i>Melanelixia fuliginosa</i> (Fr. ex Duby) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch
<i>Melanelixia glabra</i> (Schaer.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch
<i>Melanelixia glabratula</i> (Lamy) Sandler & Arup
<i>Melanelixia subargentifera</i> (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch
<i>Melanelixia subaurifera</i> (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch
<i>Melanohalea elegantula</i> (Zahlbr.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch
<i>Melanohalea exasperata</i> (De Not.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch
<i>Melanohalea exasperatula</i> (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch
<i>Melanohalea laciniatula</i> (Flagey ex H. Olivier) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch

Melanohalea olivacea (L.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch

Melanohalea septentrionalis (Lynge) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch

Melaspilea amota Nyl.

Melaspilea gibberulosa (Ach.) Zwackh

Melaspilea ochrothalamia Nyl.

Melaspileella proximella (Nyl.) Boud.

Menegazzia subsimilis (H. Magn.) R. Sant.

Menegazzia terebrata (Hoffm.) A. Massal.

Micarea adnata Coppins

Micarea alabastrites (Nyl.) Coppins

Micarea botryoides (Nyl.) Coppins

Micarea byssacea (Th. Fr.) Czarnota, Guzow-Krzem. & Coppins

Micarea cinerea (Schaer.) Hedl.

Micarea coppinsii Tønsberg

Micarea denigrata (Fr.) Hedl.

Micarea doliiformis (Coppins & P. James) Coppins & Sérus.

Micarea globulosella (Nyl.) Coppins

Micarea hedlundii Coppins

Micarea lignaria (Ach.) Hedl.

Micarea lithinella (Nyl.) Hedl.

Micarea melaena (Nyl.) Hedl.

Micarea micrococca (Körb.) Gams ex Coppins

Micarea misella (Nyl.) Hedl.

Micarea myriocarpa V. Wirth & Vězda ex Coppins

Micarea nigella Coppins

Micarea nitschkeana (J. Lahm ex Rabenh.) Harm.

Micarea oleoprasina ined.

Micarea peliocarpa (Anzi) Coppins & R. Sant.

Micarea prasina Fr.

Micarea pycnidiophora Coppins & P. James

Micarea soralifera Guzow-Krzem., Czarnota, Łubek & Kukwa

Micarea stipitata Coppins & P. James

Micarea substipitata ined.

Micarea synotheoides (Nyl.) Coppins

Micarea viridileprosa Coppins & van den Boom

Micarea xanthonica Coppins & Tønsberg

<i>Microcalicium arenarium</i> (Hampe ex A. Massal.) Tibell
<i>Microcalicium disseminatum</i> (Ach.) Vain.
<i>Montanelia sorediata</i> (Ach.) Divakar, A. Crespo, Wedin & Essl.
<i>Muellerella hospitans</i> Stizenb.
<i>Multiclavula mucida</i> (Pers.) R.H. Petersen
<i>Mycobilimbia parvilobulosa</i> Sarrión, Aragón & Hafellner
<i>Mycobilimbia sphaeroides</i> (Dicks.) S. Ekman & Printzen
<i>Mycoblastus affinis</i> (Schaer.) T. Schauer
<i>Mycoblastus alpinus</i> (Fr.) Th. Fr. ex Hellb.
<i>Mycoblastus caesius</i> (Coppins & P. James) Tønsberg
<i>Mycoblastus sanguinarius</i> (L.) Norman
<i>Mycocalicium subtile</i> (Pers.) Szatala
<i>Mycomicrothelia atlantica</i> D. Hawksw. & Coppins
<i>Mycomicrothelia confusa</i> D. Hawksw.
<i>Mycomicrothelia wallrothii</i> (Hepp) D. Hawksw.
<i>Mycoporum antecellens</i> (Nyl.) R.C. Harris
<i>Mycoporum lacteum</i> (Ach.) R.C. Harris
<i>Naetrocymbe fraxini</i> (A. Massal.) R.C. Harris
<i>Naetrocymbe nitescens</i> (Salwey ex Mudd) M.B. Aguirre, P.F. Cannon & Minter
<i>Naetrocymbe punctiformis</i> (Pers.) R.C. Harris
<i>Naetrocymbe rhypona</i> (Ach.) R.C. Harris
<i>Naevia dispersa</i> (Schrad.) Thiyagaraja, Lücking & K.D. Hyde
<i>Nephroma bellum</i> (Spreng.) Tuck.
<i>Nephroma expallidum</i> (Nyl.) Nyl.
<i>Nephroma laevigatum</i> Ach.
<i>Nephroma parile</i> (Ach.) Ach.
<i>Nephroma resupinatum</i> (L.) Ach.
<i>Nephromopsis chlorophylla</i> (Willd.) Divakar, A. Crespo & Lumbsch
<i>Nevesia sampaiana</i> (Tav.) P.M. Jørg., L. Lindblom, Wedin & S. Ekman
<i>Normandina acroglypta</i> (Norman) Aptroot
<i>Normandina pulchella</i> (Borrer) Nyl.
<i>Obryzum corniculatum</i> (Hoffm.) Wallr.
<i>Ochrolechia alboflavescens</i> (Wulfen) Zahlbr.
<i>Ochrolechia androgyna</i> (Hoffm.) Arnold
<i>Ochrolechia arborea</i> (Kreyer) Almb.
<i>Ochrolechia balcanica</i> Verseghe
<i>Ochrolechia brodoi</i> Kukwa

Ochrolechia frigida (Sw.) Lynge

Ochrolechia inaequatula (Nyl.) Zahlbr.

Ochrolechia mahluensis Räsänen

Ochrolechia microstictoides Räsänen

Ochrolechia pallescens (L.) A. Massal.

Ochrolechia subviridis (Høeg) Erichsen

Ochrolechia szatalaensis Verseghy

Ochrolechia tartarea (L.) A. Massal.

Ochrolechia trochophora (Vain.) Oshio

Ochrolechia turneri (Sm.) Zopf

Opegrapha arthoniicola Coppins & S.Y. Kondr.

Opegrapha fumosa Coppins & P. James

Opegrapha niveoatra (Borrer) J.R. Laundon

Opegrapha thelotrematis Coppins

Opegrapha trochodes Coppins, F. Berger & Ertz

Opegrapha varia var. *varia* Pers.

Opegrapha vermicellifera (J. Kunze) J.R. Laundon

Opegrapha vulgata (Ach.) Ach.

Opeltia flavorubescens (Huds.) S.Y. Kondr. & Hur

Oxneria fallax (Arnold) S.Y. Kondr. & Kärnefelt

Pachyphiale carneola (Ach.) Arnold

Pachyphiale fagicola (Arnold) Zwackh

Palicella filamentosa (Stirt.) Rodr. Flakus & Printzen

Pannaria conoplea (Ach.) Bory

Pannaria rubiginosa (Ach.) Delise

Parmelia ernstiae Feuerer & A. Thell

Parmelia omphalodes (L.) Ach.

Parmelia saxatilis (L.) Ach.

Parmelia serrana A. Crespo, M.C. Molina & D. Hawksw.

Parmelia submontana Hale

Parmelia sulcata Taylor

Parmeliella parvula P.M. Jørg.

Parmeliella testacea P.M. Jørg.

Parmeliella thriptophylla (Ach.) Müll. Arg.

Parmelina carporrhizans (Taylor) Hale

Parmelina pastillifera (Harm.) Hale

Parmelina quercina (Willd.) Hale

<i>Parmelina tiliacea</i> (Hoffm.) Hale
<i>Parmeliopsis ambigua</i> (Hoffm.) Nyl.
<i>Parmeliopsis hyperopta</i> (Ach.) Vain.
<i>Parmotrema arnoldii</i> (Du Rietz) Hale
<i>Parmotrema crinitum</i> (Ach.) M. Choisy
<i>Parmotrema perlatum</i> (Huds.) M. Choisy
<i>Parmotrema reticulatum</i> (Taylor) M. Choisy
<i>Parmotrema tinctorum</i> (Despr. ex Nyl.) Hale
<i>Pectenia atlantica</i> (Degel.) P.M. Jørg., L. Lindblom, Wedin & S. Ekman
<i>Pectenia plumbea</i> (Lightf.) P.M. Jørg., L. Lindblom, Wedin & S. Ekman
<i>Peltigera aphthosa</i> (L.) Willd.
<i>Peltigera canina</i> (L.) Willd.
<i>Peltigera collina</i> (Ach.) Schrad.
<i>Peltigera degenii</i> Gyeln.
<i>Peltigera elisabethae</i> Gyeln.
<i>Peltigera horizontalis</i> (Huds.) Baumg.
<i>Peltigera hymenina</i> (Ach.) Delise
<i>Peltigera leucophlebia</i> (Nyl.) Gyeln.
<i>Peltigera malacea</i> (Ach.) Funck
<i>Peltigera membranacea</i> (Ach.) Nyl.
<i>Peltigera neckeri</i> Hepp ex Müll. Arg.
<i>Peltigera polydactylon</i> (Neck.) Hoffm.
<i>Peltigera ponojensis</i> Gyeln.
<i>Peltigera praetextata</i> (Flörke ex Sommerf.) Zopf
<i>Peltigera retifoveata</i> Vitik.
<i>Peltigera rufescens</i> (Weiss) Humb.
<i>Peltigera neopolydactyla</i> (Gyeln.) Gyeln.
<i>Peridiothelia fuliguncta</i> (Norman) D. Hawksw.
<i>Pertusaria amara</i> f. <i>amara</i> (Ach.) Nyl.
<i>Pertusaria borealis</i> Erichsen
<i>Pertusaria coccodes</i> (Ach.) Nyl.
<i>Pertusaria constricta</i> Erichsen
<i>Pertusaria coronata</i> (Ach.) Th. Fr.
<i>Pertusaria dacica</i> Erichsen
<i>Pertusaria flavida</i> (DC.) J.R. Laundon
<i>Pertusaria hymenea</i> (Ach.) Schaer.
<i>Pertusaria leioplaca</i> (Ach.) DC.

<i>Pertusaria macounii</i> (I.M. Lamb) Dibben
<i>Pertusaria pertusa</i> (L.) Tuck.
<i>Pertusaria pupillaris</i> (Nyl.) Th. Fr.
<i>Pertusaria pustulata</i> (Ach.) Duby
<i>Pertusaria albescens</i> var. <i>albescens</i> (Huds.) M. Choisy & Werner
<i>Pertusaria pertusa</i> var. <i>pertusa</i> (L.) Tuck.
<i>Phacographa zwackhii</i> (A. Massal. ex Zwackh) Hafellner
<i>Phaeographis dendritica</i> (Ach.) Müll. Arg.
<i>Phaeographis inusta</i> (Ach.) Müll. Arg.
<i>Phaeographis lyellii</i> (Sm.) Zahlbr.
<i>Phaeographis smithii</i> (Leight.) B. de Lesd.
<i>Phaeophyscia ciliata</i> (Hoffm.) Moberg
<i>Phaeophyscia endococcina</i> (Körb.) Moberg
<i>Phaeophyscia endophoenicea</i> (Harm.) Moberg
<i>Phaeophyscia hirsuta</i> (Mereschk.) Essl.
<i>Phaeophyscia insignis</i> (Mereschk.) Moberg
<i>Phaeophyscia nigricans</i> (Flörke) Moberg
<i>Phaeophyscia orbicularis</i> (Neck.) Moberg
<i>Phaeophyscia pusilloides</i> (Zahlbr.) Essl.
<i>Phaeophyscia sciastra</i> (Ach.) Moberg
<i>Phaeophyscia rubropulchra</i> (Degel.) Moberg
<i>Phlyctis agelaea</i> (Ach.) Flot.
<i>Phlyctis argena</i> (Ach.) Flot.
<i>Phyllospora rosei</i> ined.
<i>Physcia adscendens</i> H. Olivier
<i>Physcia aipolia</i> (Ehrh. ex Humb.) Fűrnr.
<i>Physcia biziana</i> (A. Massal.) Zahlbr.
<i>Physcia caesia</i> (Hoffm.) Fűrnr.
<i>Physcia dubia</i> (Hoffm.) Lettau
<i>Physcia leptalea</i> (Ach.) DC.
<i>Physcia stellaris</i> (L.) Nyl.
<i>Physcia tenella</i> (Scop.) DC.
<i>Physcia tribacia</i> (Ach.) Nyl.
<i>Physcia tribacioides</i> Nyl.
<i>Physciella chloantha</i> (Ach.) Essl.
<i>Physconia detersa</i> (Nyl.) Poelt
<i>Physconia distorta</i> (With.) J.R. Laundon

Physconia enteroxantha (Nyl.) Poelt

Physconia grisea (Lam.) Poelt

Physconia perisidiosa (Erichsen) Moberg

Physconia servitii (Nádv.) Poelt

Physconia subpulverulenta (Szatala) Poelt

Physconia venusta (Ach.) Poelt

Piccolia ochrophora (Nyl.) Hafellner

Placynthiella dasaea (Stirt.) Tønsberg

Placynthiella icmalea (Ach.) Coppins & P. James

Placynthiella oligotropha (J.R. Laundon) Coppins & P. James

Placynthiella uliginosa (Schrad.) Coppins & P. James

Platismatia glauca (L.) W.L. Culb. & C.F. Culb.

Plectocarpon lichenum (Sommerf.) D. Hawksw.

Pleurosticta acetabulum (Neck.) Elix & Lumbsch

Polyblastidium japonicum (M. Satô) Kalb

Polycauliona candelaria (L.) Frödén, Arup & Søchting

Polycauliona polycarpa (Hoffm.) Frödén, Arup & Søchting

Polyozosia dispersa (Pers.) S.Y. Kondr., Lőkös & Farkas

Polyozosia hagenii (Ach.) S.Y. Kondr., Lőkös & Farkas

Polyozosia persimilis (Th. Fr.) S.Y. Kondr., Lőkös & Farkas

Polyozosia populicola (DC.) S.Y. Kondr., Lőkös & Farkas

Polyozosia sambuci (Pers.) S.Y. Kondr., Lőkös & Farkas

Porina coralloidea P. James

Porina hibernica P. James & Swinscow

Porina lectissima (Fr.) Zahlbr.

Porina leptosperma Müll. Arg.

Porina multipuncta (Coppins & P. James) Ertz, Coppins & Frisch

Porina rosei Sérus.

Porpidia macrocarpa (DC.) Hertel & A.J. Schwab

Protopannaria pezizoides (Weber) P.M. Jørg. & S. Ekman

Protoparmelia ochrococca (Nyl.) P.M. Jørg., Rambold & Hertel

Protoparmeliopsis muralis (Schreb.) M. Choisy

Pseudevernia furfuracea var. *furfuracea* (L.) Zopf

Pseudevernia furfuracea (L.) Zopf

Pseudocyphellaria crocata (L.) Vain.

Pseudocyphellaria norvegica (Gyeln.) P. James

Pseudographis pinicola (Nyl.) Rehm

<i>Pseudosagedia aenea</i> (Körb.) Hafellner & Kalb
<i>Pseudosagedia borrieri</i> (Trevis.) Hafellner & Kalb
<i>Pseudosagedia linearis</i> (Leight.) Hafellner & Kalb
<i>Pseudoschismatomma rufescens</i> (Pers.) Ertz & Tehler
<i>Psilolechia clavulifera</i> (Nyl.) Coppins
<i>Psoroglaena abscondita</i> (Coppins & Vězda) Hafellner & Türk
<i>Psoroglaena dictyospora</i> (Orange) H. Harada
<i>Psoroglaena stigonemoides</i> (Orange) Henssen
<i>Psoroma hypnorum</i> (Vahl) Gray
<i>Punctelia borrieri</i> (Turner ex Sm.) Krog
<i>Punctelia jeckeri</i> (Roum.) Kalb
<i>Punctelia reddenda</i> (Stirt.) Krog
<i>Punctelia subrudecta</i> (Nyl.) Krog
<i>Pycnora sorophora</i> (Vain.) Hafellner
<i>Pyrenula chlorospila</i> Arnold
<i>Pyrenula coryli</i> A. Massal.
<i>Pyrenula dermatodes</i> (Borrer) Schaer.
<i>Pyrenula laevigata</i> (Pers.) Arnold
<i>Pyrenula macrospora</i> (Degel.) Coppins & P. James
<i>Pyrenula nitida</i> (Weigel) Ach.
<i>Pyrenula nitidella</i> (Flörke ex Schaer.) Müll. Arg.
<i>Pyrenula occidentalis</i> (R.C. Harris) R.C. Harris
<i>Pyrrhospora querneae</i> (Dicks.) Körb.
<i>Pyxine sorediata</i> (Ach.) Mont.
<i>Ramalina calicaris</i> (L.) Röhl.
<i>Ramalina canariensis</i> J. Steiner
<i>Ramalina farinacea</i> (L.) Ach.
<i>Ramalina fastigiata</i> (Pers.) Ach.
<i>Ramalina fraxinea</i> (L.) Ach.
<i>Ramalina obtusata</i> (Arnold) Bitter
<i>Ramalina pollinaria</i> (Westr.) Ach.
<i>Ramalina roesleri</i> Hochst. ex Schaer.
<i>Ramalina thrausta</i> (Ach.) Nyl.
<i>Ramboldia cinnabarina</i> (Sommerf.) Kalb, Lumbsch & Elix
<i>Ramonia chrysophaea</i> (Pers.) Vězda
<i>Ramonia luteola</i> Vězda
<i>Rebentischia pomiformis</i> P. Karst.

Reichlingia anombrophila (Coppins & P. James) Frisch

Reichlingia leopoldii Diederich & Scheid.

Reichlingia zwackhii (Sandst.) Frisch & G. Thor

Rhaphidicyrtis trichosporella (Nyl.) Vain.

Rhizocarpon polycarpum (Hepp) Th. Fr.

Ricasolia amplissima (Scop.) De Not.

Ricasolia virens (With.) H.H. Blom & Tønsberg

Rinodina albana (A. Massal.) A. Massal.

Rinodina capensis Hampe

Rinodina colobina (Ach.) Th. Fr.

Rinodina conradii Körb.

Rinodina degeliana Coppins

Rinodina efflorescens Malme

Rinodina exigua (Ach.) Gray

Rinodina freyi H. Magn.

Rinodina griseosoralifera Coppins

Rinodina isidioides (Borrer) H. Olivier

Rinodina malangica (Norman) Arnold

Rinodina orculata Poelt & M. Steiner

Rinodina pyrina (Ach.) Arnold

Rinodina roboris (Dufour ex Nyl.) Arnold

Rinodina septentrionalis Malme

Rinodina sophodes (Ach.) A. Massal.

Rinodina subpariata (Nyl.) Zahlbr.

Rinodina trevisanii (Hepp) Körb.

Ropalospora viridis (Tønsberg) Tønsberg

Rostania occultata (Bagl.) Otálora, P.M. Jørg. & Wedin

Sarea difformis (Fr.) Fr.

Sarea resinae (Fr.) Kuntze

Schaereria corticola Muhr & Tønsberg

Schismatomma graphidioides (Leight. ex Lettau) Zahlbr.

Schizotrema quercicola (Coppins & P. James) Ertz, Frisch & Sanderson

Sclerococcum parasiticum (Flörke) Ertz & Diederich

Sclerophora amabilis (Tibell) Tibell

Sclerophora farinacea (Chevall.) Chevall.

Sclerophora pallida (Pers.) Y.J. Yao & Spooner

Sclerophora peronella (Ach.) Tibell

<i>Scoliciosporum chlorococcum</i> (Graewe ex Stenh.) Vězda
<i>Scoliciosporum curvatum</i> Sérus.
<i>Scoliciosporum gallurae</i> Vězda & Poelt
<i>Scoliciosporum pruinosum</i> (P. James) Vězda
<i>Scoliciosporum sarothamni</i> (Vain.) Vězda
<i>Scoliciosporum schadeanum</i> (Erichsen) Vězda
<i>Scoliciosporum umbrinum</i> (Ach.) Lojka
<i>Scutula igniarii</i> (Nyl.) S. Ekman
<i>Scytinium aragonii</i> (Otálora) Otálora, P.M. Jørg. & Wedin
<i>Scytinium fragrans</i> (Sm.) Otálora, P.M. Jørg. & Wedin
<i>Scytinium gelatinosum</i> (With.) Otálora, P.M. Jørg. & Wedin
<i>Scytinium intermedium</i> (Arnold) Otálora, P.M. Jørg. & Wedin
<i>Scytinium lichenoides</i> (L.) Otálora, P.M. Jørg. & Wedin
<i>Scytinium magnussonii</i> (Degel. & P.M. Jørg.) Otálora, P.M. Jørg. & Wedin
<i>Scytinium pulvinatum</i> (Hoffm.) Otálora, P.M. Jørg. & Wedin
<i>Scytinium subtile</i> (Schrad.) Otálora, P.M. Jørg. & Wedin
<i>Scytinium teretiusculum</i> (Wallr.) Otálora, P.M. Jørg. & Wedin
<i>Segestria byssophila</i> (Körb. ex Hepp) Zahlbr.
<i>Segestria leptalea</i> (Durieu & Mont.) R.C. Harris
<i>Snippocia nivea</i> (D. Hawksw. & P. James) Ertz & Sanderson
<i>Solitaria chrysophthalma</i> (Degel.) Arup, Søchting & Frödén
<i>Solorina saccata</i> (L.) Ach.
<i>Sphaerophorus globosus</i> (Huds.) Vain.
<i>Sphinctrina anglica</i> Nyl.
<i>Sphinctrina turbinata</i> Fr.
<i>Sphinctrina tubaeformis</i> A. Massal.
<i>Sporodictyon hegetschweileri</i> (Nägeli) Hepp ex Hazsl.
<i>Sporodophoron cretaceum</i> (Hue) Ertz & Frisch
<i>Stenocybe nitida</i> (Mont.) R. Heim
<i>Stenocybe pullatula</i> (Ach.) Stein
<i>Stenocybe septata</i> (Leight.) A. Massal.
<i>Sticta canariensis</i> (Bory) Bory ex Delise
<i>Sticta fuliginosa</i> (With.) Ach.
<i>Sticta limbata</i> (Sm.) Ach.
<i>Sticta sylvatica</i> (Huds.) Ach.
<i>Stigmatidium congestum</i> (Körb.) Triebel
<i>Stigmatidium microspilum</i> (Körb.) D. Hawksw.

<i>Straminella conizaeoides</i> (Nyl. ex Cromb.) S.Y. Kondr., Lökös & Farkas
<i>Straminella varia</i> (Hoffm.) S.Y. Kondr., Lökös & Farkas
<i>Strangospora microhaema</i> (Norman) R.A. Anderson
<i>Strangospora moriformis</i> (Ach.) Stein
<i>Strangospora pinicola</i> (A. Massal.) Körb.
<i>Strigula inconspicua</i> ined.
<i>Swinscowia glabra</i> (A. Massal.) S.H. Jiang, Lücking & Sérus.
<i>Swinscowia jamesii</i> (Swinscow) S.H. Jiang, Lücking & Sérus.
<i>Swinscowia stigmatella</i> (Ach.) S.H. Jiang, Lücking & Sérus.
<i>Swinscowia thelopsidoides</i> (Coppins, Cl. Roux & Sérus.) S.H. Jiang, Lücking & Sérus.
<i>Synarthonia astroidestera</i> (Nyl.) Ertz & Van den Broeck
<i>Synarthonia ochracea</i> (Dufour) Van den Broeck & Ertz
<i>Tephromela atra</i> (Huds.) Hafellner
<i>Tetramelas chloroleucus</i> (Körb.) A. Nordin
<i>Tetramelas insignis</i> (Körb.) Kalb
<i>Thelenella muscorum</i> var. <i>muscorum</i> (Th. Fr.) Vain.
<i>Thelenella muscorum</i> (Th. Fr.) Vain.
<i>Thelidium zwackhii</i> (Hepp) A. Massal.
<i>Thelocarpon laureri</i> (Flot.) Nyl.
<i>Thelopsis corticola</i> (Coppins & P. James) Sanderson & Ertz
<i>Thelopsis flaveola</i> Arnold
<i>Thelopsis rubella</i> Nyl.
<i>Thelotrema lepadinum</i> (Ach.) Ach.
<i>Thelotrema macrosporum</i> P.M. Jørg. & P. James
<i>Thelotrema suecicum</i> (H. Magn.) P. James
<i>Toensbergia leucococca</i> (R. Sant.) Bendiksby & Timdal
<i>Tomasellia gelatinosa</i> (Chevall.) Zahlbr.
<i>Tomasellia arthonioides</i> (A. Massal.) A. Massal.
<i>Toniniopsis bagliettoana</i> (A. Massal. & De Not.) Kistenich & Timdal
<i>Toniniopsis subincompta</i> (Nyl.) Kistenich, Timdal, Bendiksby & S. Ekman
<i>Trapelia corticola</i> Coppins & P. James
<i>Trapeliopsis flexuosa</i> (Fr.) Coppins & P. James
<i>Trapeliopsis gelatinosa</i> (Flörke) Coppins & P. James
<i>Trapeliopsis glaucolepidea</i> (Nyl.) Gotth. Schneid.
<i>Trapeliopsis granulosa</i> (Hoffm.) Lumbsch
<i>Trapeliopsis pseudogranulosa</i> Coppins & P. James
<i>Trapeliopsis viridescens</i> (J.F. Gmel.) Coppins & P. James

<i>Tremella hypogymniae</i> Diederich & M.S. Christ.
<i>Tuckneraria laureri</i> (Kremp.) Randle & A. Thell
<i>Usnea barbata</i> (L.) F.H. Wigg.
<i>Usnea cavernosa</i> Tuck.
<i>Usnea ceratina</i> Ach.
<i>Usnea chaetophora</i> Stirt.
<i>Usnea cornuta</i> Körb.
<i>Usnea dasopoga</i> (Ach.) Nyl.
<i>Usnea diplotypus</i> Vain.
<i>Usnea filipendula</i> Stirt.
<i>Usnea flammea</i> Stirt.
<i>Usnea florida</i> (L.) F.H. Wigg.
<i>Usnea fragilescens</i> Hav. ex Lyng
<i>Usnea fulvorenana</i> (Räsänen) Räsänen
<i>Usnea glabrescens</i> (Nyl. ex Vain.) Vain.
<i>Usnea hirta</i> (L.) F.H. Wigg.
<i>Usnea intermedia</i> (A. Massal.) Jatta
<i>Usnea lapponica</i> Vain.
<i>Usnea perplexans</i> Stirt.
<i>Usnea rubicunda</i> Stirt.
<i>Usnea scabrata</i> Nyl.
<i>Usnea silesiaca</i> Motyka
<i>Usnea subfloridana</i> Stirt.
<i>Usnea subscabrosa</i> Nyl. ex Motyka
<i>Usnea substerilis</i> Motyka
<i>Usnea wasmuthii</i> Räsänen
<i>Usnocetraria oakesiana</i> (Tuck.) M.J. Lai & J.C. Wei
<i>Vandenboomia chlorotiza</i> (Nyl.) S.Y. Kondr.
<i>Varicellaria hemisphaerica</i> (Flörke) I. Schmitt & Lumbsch
<i>Varicellaria lactea</i> (L.) I. Schmitt & Lumbsch
<i>Varicellaria velata</i> (Turner) I. Schmitt & Lumbsch
<i>Verrucaria breussii</i> Diederich & van den Boom
<i>Verrucaria bryoctona</i> (Th. Fr.) Orange
<i>Verrucaria corticola</i> (Arnold) Servit
<i>Verrucaria hidrophila</i> ined.
<i>Verrucaria viridigrana</i> Breuss
<i>Verseghya thysanophora</i> (R.C. Harris) S.Y. Kondr., Lökös, Farkas & Hur

Veizdaea aestivalis (Ohlert) Tscherm.-Woess & Poelt

Veizdaea cobria Giralt, Poelt & Suanjak

Veizdaea retigera Poelt & Döbbeler

Veizdaea stipitata Poelt & Döbbeler

Violella fucata (Stirt.) T. Sprib.

Vouauxiella lichenicola (Linds.) Petr. & Syd.

Vulpicida pinastri (Scop.) J.-E. Mattsson & M.J. Lai

Wadeana dendrographa (Nyl.) Coppins & P. James

Wadeana minuta Coppins & P. James

Waynea adscendens V.J. Rico

Xanthoparmelia conspersa (Ehrh. ex Ach.) Hale

Xanthoparmelia stenophylla (Ach.) Ahti & D. Hawksw.

Xanthoria elegans (Link) Th. Fr.

Xanthoria parietina (L.) Th. Fr.

Xanthoria ulophyllodes Räsänen

Xylographa parallela (Ach.) Fr.

Xylopsora caradocensis (Leight. ex Nyl.) Bendiksby & Timdal

Zamenhofia pseudohibernica (M. Tretiach) Cl. Roux & Tretiach

Zwackhia prosodea (Afzel.) Ertz

Zwackhia sorediifera (P. James) Ertz

Zwackhia viridis (Ach.) Poetsch & Schied.
