

CATALOGUE OF LICHENIZED AND LICHENICOLOUS FUNGI OF CYPRUS

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Abstract: This annotated checklist of lichens and lichenicolous fungi of Cyprus is based mainly on literature records. The currently known lichen flora is composed of 365 taxa (352 species of lichenized fungi, 2 subspecies, 3 varieties and 8 lichenicolous fungi). The Troodos Region, with about 230 taxa, is the part of the island with the highest number of known species. For each lichen species references, regions, substratum and altitudinal range are reported.

Introduction

The annotated catalogue of lichens and lichenicolous fungi of Cyprus provided here is based mainly on literature records, and is a first-approximation checklist compiled within the project of the OPTIMA Commission of Lichens for a general biodiversity inventory of the lichens of the Mediterranean area (Nimis 1996). The first lichen records from Cyprus were published by Flotow (1843), Koerber (1862) and Krempelhuber (1865). The records of Koerber (1862) and Krempelhuber (1865) were based on material collected by F. Unger. Recently, the lichen flora of Cyprus, especially in the Greek part, has received more attention (Aptroot 1996, Litterski 1997, Litterski & Mayrhofer 1998). Some regions in the Turkish part were investigated by Güvenc & Öztürk (1994, 1995).

The island of Cyprus is 9251 km² in size, and is situated in the south-eastern part of the Mediterranean Sea. The vegetation is of eu-Mediterranean type.

The currently known lichen flora comprises 365 taxa (352 species of lichenized fungi, 2 subspecies and 3 varieties of lichenized fungi, and 8 lichenicolous fungi). The Troodos Region, with about 230 taxa, and the Akamas-Pafos Region, with about 110 taxa, are the two parts of the island with the highest number of known species. Of the known species, 8% have *Trentepohliaceae* as phycobiont and occur mostly at lower altitudes, 84% have other green algae, and the remaining 8%

have cyanobionts. The 352 species of lichenized fungi and 8 species of lichenicolous fungi belong to different orders, families and genera. Most of the species belong to the large order *Lecanorales* (222 species). Within the *Lecanorales* the *Physciaceae* (47 species), *Lecanoraceae* (35 species) and *Parmeliaceae* (36 species) are the families with the highest number of known species. Other important orders are the *Teloschistales* (43 species) and *Arthoniales* (22 species).

Methods and arrangement of the checklist

In the following checklist, species are listed alphabetically. For each lichen species, references, regions, substratum and altitudinal range are provided, so far as is possible. The references are listed in temporal order.

The following regions (Fig. 1) are reported in brackets:

- I Akamas-Pafos Region
- II Mamonia Region
- III Troodos Region
- IV Circum Troodos-Mesaoria Region
- V Pentadycyctolos Region

This delimitation corresponds with geological features (Geological Survey Department 1995). When it is not known where the locality mentioned in the literature is situated, the abbreviation ? is used.

The altitudinal zones are delimited as follows:

- 1996 (II), Litterski 1997 (I, III), Litterski & Mayrhofer 1998 (I, IV); pl/co, mo; ca, ro, si.
- Caloplaca marmorata* (Bagl.) Jatta - Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, salp; ca, si.
- Caloplaca navasiana* Nav.-Ros. & Cl. Roux - Navarro-Rosinés & Roux 1993 (IV), Navarro-Rosinés & Roux 1994 (fig. 1), Navarro-Rosinés & Roux 1995 (IV); pl/co; ca.
- Caloplaca saxicola* (Hoffm.) Nordin - Flotow 1843 (*Lecanora murorum* y. *callopisoma*), Güvenc & Öztürk 1995 (V), Litterski 1997 (I, II); pl/co; ca, li.
- Caloplaca subpallida* H. Magn. - Aptroot 1996 (II, III); [pl/co, mo]; ro.
- Caloplaca tavaresiana* Nav.-Ros. & Cl. Roux - Navarro-Rosinés & Roux 1993 (IV), Navarro-Rosinés & Roux 1994 (fig. 1); pl/co; ca.
- Caloplaca teicholyta* (Ach.) J. Steiner - Aptroot 1996 (II), Litterski 1997 (I); pl/co; ro.
- Caloplaca variabilis* (Pers.) Müll. Arg. - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Caloplaca veneris* Cl. Roux & Nav.-Ros. - Roux & Egea 1992 (IV), Roux & Navarro-Rosinés 1992 (IV), Navarro-Rosinés & Roux 1993 (IV), Navarro-Rosinés & Roux 1994 (fig. 1); pl/co; ca.
- Candelariella aurella* (Hoffm.) Zahlbr. - Güvenc & Öztürk 1995 (V), Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, submo, salp; ca, Jn, Ps, si.
- Candelariella vitellina* (Hoffm.) Müll. Arg. - Aptroot 1996 (III), Litterski 1997 (III), Litterski & Mayrhofer 1998 (III); mo, salp; ro, si.
- Candelariella xanthostigma* (Ach.) Lettau - Aptroot 1996 (III); [mo]; Pi.
- **Carbonea vitellinaria* (Nyl.) Hertel - Litterski & Mayrhofer 1998 (III); salp; si, on *Candelariella vitellina*.
- Catapyrenium daedaleum* (Kremp.) Stein - Aptroot 1996 (II, III), Litterski 1997 (I, III); pl/co, submo; so.
- Catapyrenium psoromoides* (Borrer) R. Sant. - Litterski & Mayrhofer 1998 (III); submo; Qu.
- Catillaria chalybeia* (Borrer) A. Massal. - Aptroot 1996 (III), Litterski & Mayrhofer 1998 (I); pl/co, [mo]; sa, ro.
- Catillaria lenticularis* (Ach.) Th. Fr. - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- **Catillaria mediterranea* Hafellner - Litterski & Mayrhofer 1998 (III); mo; Cd, on *Physcia semipinnata* and *Physcia stellaris*.
- Catillaria nigroclavata* (Nyl.) Schuler - Litterski 1997 (III); mo; cone (Pi).
- Chromatochlamys muscorum* (Fr.) H. Mayrhofer & Poelt - Litterski & Mayrhofer 1998 (III); mo; mos.
- Cladonia cariosa* (Ach.) Spreng. - Litterski 1997 (III); mo; Pi.
- Cladonia cervicornis* (Ach.) Flot. - Krempelhuber 1865 (IV), Litterski & Mayrhofer 1998 (I, III); pl/co; so.
- Cladonia convoluta* (Lam.) Anders - Flotow 1843 (*C. endiviaefolia*), Krempelhuber 1865 (IV, V, *C. endivifolia*), Güvenc & Öztürk 1994 (IV, V), Litterski 1997 (I, III); pl/co, submo; so.
- Cladonia fimbriata* (L.) Fr. - Güvenc & Öztürk 1994 (IV), Litterski 1997 (III); pl/co, mo; Pi.
- Cladonia foliacea* (Huds.) Willd. - Güvenc & Öztürk 1994 (IV, V); pl/co; so.
- Cladonia furcata* (Huds.) Schrad. - Flotow 1843; -.
- Cladonia pocillum* (Ach.) O. J. Rich. - Flotow 1843 (*C. pyxidata* c. p.), Güvenc & Öztürk 1994 (IV, V), Litterski 1997 (I, III); pl/co, submo, mo; so.
- Cladonia pyxidata* (L.) Hoffm. - Krempelhuber 1865 (IV, V), Güvenc & Öztürk 1994 (V, *C. chlorophaea*, *C. pyxidata*), Aptroot 1996 (III); pl/co, [mo]; Pi, so.
- Cladonia ramulosa* (With.) J. R. Laundon - Litterski & Mayrhofer 1998 (III); mo; so.
- Cladonia rangiformis* Hoffm. - Krempelhuber 1865 (IV), Güvenc & Öztürk 1994 (IV, V), Litterski 1997 (III); pl/co, submo, mo; so.
- Cladonia squamosa* Hoffm. - Litterski 1997 (III); mo; so.
- Clauzadea immersa* (Hoffm.) Hafellner & Bellem. - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Clauzadea metzleri* (Körb.) Clauzade & Cl. Roux - Aptroot 1996 (II), Litterski 1997 (I); pl/co; li, ro.
- Collema auriforme* (With.) Coppins & J. R. Laundon - Litterski 1997 (III), Litterski & Mayrhofer 1998 (III); submo, salp; mos, si.
- Collema crispum* (Huds.) Weber - Flotow 1843, Güvenc & Öztürk 1994 (V), Aptroot 1996 (II), Litterski 1997 (III), Litterski & Mayrhofer 1998 (III); pl/co, mo; ca, ro, si, so.
- Collema cristatum* (L.) Weber - Krempelhuber 1865 (IV, V), Degelius 1954 (II), Güvenc & Öztürk 1994 (V), Aptroot 1996 (II), Litterski 1997 (III), Litterski & Mayrhofer 1998 (I, III); pl/co, submo; ca, mos, ro, si, so.
- Collema limosum* (Ach.) Ach. - Aptroot 1996 (II);

- [pl/co]; so.
- Collema occultatum*** Bagl. - Litterski & Mayrhofer 1998 (III); submo; Al.
- Collema ryssoleum*** (Tuck.) A. Schneid. - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Collema subflaccidum*** Degel. - Litterski 1997 (III); submo, mo; Cd, Ce, Cu.
- Collema subnigrescens*** Degel. - Litterski 1997 (III); submo, mo; Ac, Cu, Qu.
- Collema tenax*** (Sw.) Ach. - Aptroot 1996 (II, III), Litterski 1997 (I, III); pl/co, submo; so.
- Cyphelium tigillare*** (Ach.) Ach. - Litterski 1997 (III); salp; Pi.
- ****Dactylospora attendenda*** (Nyl.) Arnold - Litterski & Mayrhofer 1998 (III); salp; wo, on *Lecanora* sp.
- Dendriscocaulon umhausense*** (Auersw.) Degel. - Litterski & Mayrhofer 1998 (III); mo; Cd, Qu.
- Degelia plumbea*** (Lightf.) P. M. Jørg. & P. James - Litterski 1997 (III); mo; Cd, Qu.
- Dermatocarpon miniatum*** (L.) W. Mann - Krempelhuber 1865 (III, *Endocarpon m.*), Litterski 1997 (III); mo, [hmo]; si.
- Dermatocarpon nodulosum*** (Kremp.) Zahlbr. - Krempelhuber 1865 (III, *Endocarpon n.*), typus in M, teste: O. Breuß; [hmo]; ro.
- Dimerella tavaresiana*** Vězda - Litterski & Mayrhofer 1998 (I); pl/co; Pi.
- Diploicia canescens*** (Dicks.) A. Massal. - Güvenc & Öztürk 1995 (V), Litterski 1997 (I), Litterski & Mayrhofer 1998 (I); pl/co; ca, Ce, li, Ol, Pi, Pr, sa.
- Diploschistes actinostomus*** (Pers. ex Ach.) Zahlbr. - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Diploschistes candidissimus*** (Kremp.) Zahlbr. - Krempelhuber 1865 (V, *Limboria candidissima*), Lettau 1932 (*D. calcarius*), Lumbsch 1989, Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Diploschistes diacapsis*** (Ach.) Lumbsch - Litterski 1997 (III); submo; so.
- Diploschistes gypsaceus*** (Ach.) Zahlbr. - Krempelhuber 1865 (V, *Urceolaria scruposa* var. *gypsacea*, var. *cretacea*), Aptroot 1996 (II); [pl/co]; so.
- Diploschistes muscorum*** (Scop.) R. Sant. - Flotow 1843 (*Urceolaria villarsii* var. *macrior*), Krempelhuber 1865 (V, *Urceolaria scruposa* var. *bryophila*, var. *arenaria*), Lumbsch 1989, Litterski 1997 (III); submo; so.
- Diploschistes ocellatus*** (Vill.) Norman - Flotow 1843 (*Urceolaria villarsii*), Krempelhuber 1865 (IV, *Urceolaria ocellata*), Lumbsch 1989, Litterski & Mayrhofer 1998 (III); pl/co; sa.
- Diploschistes scruposus*** (Vill.) Norman - Güvenc & Öztürk 1995 (IV, V); pl/co; ca.
- Diplotomma alboatrum*** (Hoffm.) Flot. - Krempelhuber 1865 (IV, V), Güvenc & Öztürk 1995 (IV, V, *D. alboatrum*, *D. epipodium*), Litterski 1997 (I, II, III, *D. alboatrum*, *D. epipodium*), Litterski & Mayrhofer 1998 (III); pl/co, mo; ca, Ce, li, Ol, ca, cone (Pi).
- Diplotomma venustum*** (Körb.) Körb. - Güvenc & Öztürk 1995 (V, *Buellia venusta*); pl/co; ca.
- Dirina ceratoniae*** (Ach.) Fr. - Tehler 1983, Litterski 1997 (I); pl/co; Ce.
- Dirina cretacea*** (Zahlbr.) Tehler - Tehler 1983 (I, IV), Roux 1991 (map 3); [pl/co]; ca.
- Dirina massiliensis*** Durieu & Mont. f. *massiliensis* - Krempelhuber 1865 (*D. repanda*), Tehler 1983, Roux 1991 (map 2), Litterski & Mayrhofer 1998 (I); pl/co; ca, sa.
- Dirina massiliensis*** Durieu & Mont. f. *sorediata* (Müll. Arg.) Tehler - Tehler 1983, Roux 1991 (map 2), Follmann 1993 (*D. stenhammari*, map 7), Litterski & Mayrhofer 1998(I); pl/co; ca, sa.
- Epiphloea terrena*** (Nyl.) Trevis. - Aptroot 1996 (III); [mo]; so.
- Evernia prunastri*** (L.) Ach. - Krempelhuber 1865 (III), Güvenc & Öztürk 1994 (V), Aptroot 1996 (III), Litterski 1997 (III); submo, mo, [hmo]; Cd, Pi, Qu.
- Fulglesia bracteata*** (Hoffm.) Räsänen - Krempelhuber 1865 (IV, *Gyalolechia b.*); pl/co;
- Fulglesia fulgens*** (Sw.) Elenkin - Krempelhuber 1865 (V, *Psoroma f.*), Güvenc & Öztürk 1995 (IV, V), Aptroot 1996 (II), Litterski 1997 (III); pl/co, submo; ca, so.
- Fulglesia fulgida*** (Nyl.) Szatala - Litterski 1997 (I, III); pl/co, submo; so.
- Fulglesia subbracteata*** (Nyl.) Poelt - Vězda 1988a (IV, No. 2191), Aptroot 1996 (II), Litterski & Mayrhofer 1998 (I, IV); pl/co; ro, so.
- Fuscopannaria olivacea*** (P. M. Jørg.) P. M. Jørg. - Litterski 1997 (III, *Pannaria o.*); mo; Cd, Qu.
- Fuscopannaria saubinetii*** (MONT.) P. M. Jørg. - Litterski & Mayrhofer 1998 (III); submo; Qu.
- Gylecta jenensis*** (Batsch) Zahlbr. - Litterski 1997 (III); mo; si.
- Haematomma nemetzii*** J. Steiner - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Heterodermia speciosa*** (Wulfen) Trevis. - Øvstdal 1987 (III); salp; Pi.

- Hymenelia prevostii* (Duby) Kremp. - Aptroot 1996 (II); [pl/co]; ro.
- Hypocenomyce scalaris* (Lilj.) M. Choisy - Krempelhuber 1865 (III, *Psora ostreata*), Litterski 1997 (III); [hmo], salp; Pi.
- Hypogymnia farinacea* Zopf - Litterski 1997 (III); salp; Pi.
- Hypogymnia tubulosa* (Schaer.) Hav. - Krempelhuber 1865 (III, *Parmelia ceratophylla* var. *t.*), Øvstdal 1987 (III), Litterski 1997 (III); mo, salp; Pi.
- Immersaria athroocarpa* (Ach.) Rambold & Pietschm. - Krempelhuber 1865 (III, *Lecidea conformis*); [mo]; si.
- **Kirschsteiniothelia aethiops* (Berk. & M. A. Curtis) D. Hawksw. - Aptroot 1996 (III); mo; -.
- Lasallia pustulata* (L.) Mérat - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Lecania cyrtella* (Ach.) Th. Fr. - Litterski & Mayrhofer 1998 (I); pl/co; br.
- Lecania inundata* (Hepp ex Körb.) M. Mayrhofer - Litterski 1997 (I); pl/co; sa.
- Lecania spadicea* (Flot.) Zahlbr. - Aptroot 1996 (II), Litterski & Mayrhofer 1998 (I); pl/co; ca, ro.
- Lecania sylvestris* (Arnold) Arnold - Aptroot 1996 (II); [pl/co]; ro.
- Lecania turicensis* (Hepp) Müll. Arg. - Litterski & Mayrhofer 1998 (I); pl/co; ca, sa.
- Lecanographa grumulosa* (Dufour) Egea & Torrente - Krempelhuber 1865 (V, *Lecanactis g.*), Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Lecanographa lyncea* (Sm.) Egea & Torrente - Litterski & Mayrhofer 1998 (I); pl/co; Ce, Pi.
- Lecanora achariana* A. L. Sm. - Aptroot 1996 (II); [pl/co]; ro.
- Lecanora allophana* Nyl. - Krempelhuber 1865 (III, *Lecanora subfusca* var. *distans*), Güvenc & Öztürk 1995 (IV, V); pl/co; Cr, Cu.
- Lecanora argentata* (Ach.) Malme - Aptroot 1996 (III), Litterski 1997 (I, III); mo; Ac, Ce, Pi.
- Lecanora bolcana* (Pollini) Poelt - Krempelhuber 1865 (?), III, *Placodium saxicolum* var. *diffractum*, Litterski 1997 (III), Litterski & Mayrhofer 1998 (I, III); pl/co, mo; sa, si.
- Lecanora campestris* (Schaer.) Hue var. *campestris* - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Lecanora campestris* (Schaer.) Hue var. *alba* de Lesd. - Vězda 1988a (IV, No. 2188); pl/co; ca.
- Lecanora chlarotera* Nyl. - Güvenc & Öztürk 1995 (IV, V, *L. chlarona*, *L. chlarotera*), Kondratyuk & Poelt 1997 (III); pl/co, mo; Ce, Cu, Ol, Pi, Ps, Qu.
- Lecanora dispersa* (L.) Sommerf. - Aptroot 1996 (III), Litterski 1997 (II); pl/co, [mo]; li, ro.
- Lecanora expallens* Ach. - Aptroot 1996 (III); [mo]; Pi.
- Lecanora hagenii* (Ach.) Ach. - Güvenc & Öztürk 1995 (V), Aptroot 1996 (III); pl/co, [mo]; Ps, Vi.
- Lecanora horiza* (Ach.) Linds. - Güvenc & Öztürk 1995 (IV, *L. sienae*), Litterski 1997 (I, III); pl/co, mo, salp; Ci, Ol, Pi, Qu.
- Lecanora intumescens* (Rebent.) Rabenh. - Aptroot 1996 (III); [mo]; Qu.
- Lecanora marginata* (Schaer.) Hertel & Rambold - Krempelhuber 1865 (IV, *Lecidea elata*); [pl/co]; -.
- Lecanora meridionalis* H. Magn. - Litterski & Mayrhofer 1998 (I); pl/co; Ce, Cs.
- Lecanora muralis* (Schreb.) Rabenh. - Krempelhuber 1865 (III, *Placodium saxicolum*), Güvenc & Öztürk 1995 (V), Litterski 1997 (II, III); pl/co, mo, salp; li, si.
- Lecanora piniperda* Körb. - Vězda 1988a (III, No. 2189), Aptroot 1996 (III); [mo], salp; Pi.
- Lecanora polytropa* (Hoffm.) Rabenh. - Aptroot 1996 (III); [mo]; ro.
- Lecanora pruinosa* Chaub. - Güvenc & Öztürk 1995 (V); pl/co; ro.
- Lecanora rupicola* (L.) Zahlbr. - Litterski 1997 (III), Litterski & Mayrhofer 1998 (III); submo, mo; si.
- Lecanora saligna* (Schrad.) Zahlbr. var. *sarcopsis* Ach. - Litterski & Mayrhofer 1998 (III); salp; Pi.
- Lecanora subintricata* (Nyl.) Th. Fr. - Litterski 1997 (III); salp; Pi.
- Lecanora sulphurea* (Hoffm.) Ach. - Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, mo; sa, si.
- Lecanora symmicta* (Ach.) Ach. - Litterski & Mayrhofer 1998 (I); pl/co; Cs.
- Lecanora umbrina* (Ach.) A. Massal. - Litterski 1997 (III); mo; Pi.
- Lecanora varia* (Hoffm.) Ach. - Krempelhuber 1865 (III), Aptroot 1996 (III), Litterski 1997 (III); mo; Pi.
- Lecidea atrobrunnea* (Lam. & DC.) Schaer. - Krempelhuber 1865 (III); [hmo]; -.
- Lecidea fuscoatra* (L.) Ach. - Krempelhuber 1865 (?), *L. fumosa*, Aptroot 1996 (III), Litterski 1997 (III); submo, mo; ro, si.
- Lecidea hypopta* Ach. - Øvstdal 1987 (III, cf.), Aptroot 1996 (III); [mo], salp (cf.); Pi.
- Lecidea lapicida* (Ach.) Ach. var. *pantherina* Ach.

- [pl/co]; so.
- Collema occultatum*** Bagl. - Litterski & Mayrhofer 1998 (III); submo; Al.
- Collema ryssoleum*** (Tuck.) A. Schneid. - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Collema subflaccidum*** Degel. - Litterski 1997 (III); submo, mo; Cd, Ce, Cu.
- Collema subnigrescens*** Degel. - Litterski 1997 (III); submo, mo; Ac, Cu, Qu.
- Collema tenax*** (Sw.) Ach. - Aptroot 1996 (II, III), Litterski 1997 (I, III); pl/co, submo; so.
- Cyphelium tigillare*** (Ach.) Ach. - Litterski 1997 (III); salp; Pi.
- ****Dactylospora attendenda*** (Nyl.) Arnold - Litterski & Mayrhofer 1998 (III); salp; wo, on *Lecanora* sp.
- Dendriscocaulon umhausense*** (Auersw.) Degel. - Litterski & Mayrhofer 1998 (III); mo; Cd, Qu.
- Degelia plumbea*** (Lightf.) P. M. Jørg. & P. James - Litterski 1997 (III); mo; Cd, Qu.
- Dermatocarpon miniatum*** (L.) W. Mann - Krempelhuber 1865 (III, *Endocarpon m.*), Litterski 1997 (III); mo, [hmo]; si.
- Dermatocarpon nodulosum*** (Kremp.) Zahlbr. - Krempelhuber 1865 (III, *Endocarpon n.*), typus in M, teste: O. Breuß; [hmo]; ro.
- Dimerella tavaresiana*** Vězda - Litterski & Mayrhofer 1998 (I); pl/co; Pi.
- Diploicia canescens*** (Dicks.) A. Massal. - Güvenc & Öztürk 1995 (V), Litterski 1997 (I), Litterski & Mayrhofer 1998 (I); pl/co; ca, Ce, li, Ol, Pi, Pr, sa.
- Diploschistes actinostomus*** (Pers. ex Ach.) Zahlbr. - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Diploschistes candidissimus*** (Kremp.) Zahlbr. - Krempelhuber 1865 (V, *Limboria candidissima*), Lettau 1932 (*D. calcarius*), Lumbsch 1989, Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Diploschistes diacapsis*** (Ach.) Lumbsch - Litterski 1997 (III); submo; so.
- Diploschistes gypsaceus*** (Ach.) Zahlbr. - Krempelhuber 1865 (V, *Urceolaria scruposa* var. *gypsacea*, var. *cretacea*), Aptroot 1996 (II); [pl/co]; so.
- Diploschistes muscorum*** (Scop.) R. Sant. - Flotow 1843 (*Urceolaria villarsii* var. *macrion*), Krempelhuber 1865 (V, *Urceolaria scruposa* var. *bryophila*, var. *arenaria*), Lumbsch 1989, Litterski 1997 (III); submo; so.
- Diploschistes ocellatus*** (Vill.) Norman - Flotow 1843 (*Urceolaria villarsii*), Krempelhuber 1865 (IV, *Urceolaria ocellata*), Lumbsch 1989, Litterski & Mayrhofer 1998 (III); pl/co; sa.
- Diploschistes scruposus*** (Vill.) Norman - Güvenc & Öztürk 1995 (IV, V); pl/co; ca.
- Diplotomma alboatrum*** (Hoffm.) Flot. - Krempelhuber 1865 (IV, V), Güvenc & Öztürk 1995 (IV, V, *D. alboatrum*, *D. epipodium*), Litterski 1997 (I, II, III, *D. alboatrum*, *D. epipodium*), Litterski & Mayrhofer 1998 (III); pl/co, mo; ca, Ce, li, Ol, ca, cone (Pi).
- Diplotomma venustum*** (Körb.) Körb. - Güvenc & Öztürk 1995 (V, *Buellia venusta*); pl/co; ca.
- Dirina ceratoniae*** (Ach.) Fr. - Tehler 1983, Litterski 1997 (I); pl/co; Ce.
- Dirina cretacea*** (Zahlbr.) Tehler - Tehler 1983 (I, IV), Roux 1991 (map 3); [pl/co]; ca.
- Dirina massiliensis*** Durieu & Mont. f. *massiliensis* - Krempelhuber 1865 (IV, *D. repanda*), Tehler 1983, Roux 1991 (map 2), Litterski & Mayrhofer 1998 (I); pl/co; ca, sa.
- Dirina massiliensis*** Durieu & Mont. f. *sorediata* (Müll. Arg.) Tehler - Tehler 1983, Roux 1991 (map 2), Follmann 1993 (*D. stenhammari*, map 7), Litterski & Mayrhofer 1998(I); pl/co; ca, sa.
- Epiphloea terrena*** (Nyl.) Trevis. - Aptroot 1996 (III); [mo]; so.
- Evernia prunastri*** (L.) Ach. - Krempelhuber 1865 (III), Güvenc & Öztürk 1994 (V), Aptroot 1996 (III), Litterski 1997 (III); submo, mo, [hmo]; Cd, Pi, Qu.
- Fulglesia bracteata*** (Hoffm.) Räsänen - Krempelhuber 1865 (IV, *Gyalolechia b.*); pl/co;
- Fulglesia fulgens*** (Sw.) Elenkin - Krempelhuber 1865 (V, *Psoroma f.*), Güvenc & Öztürk 1995 (IV, V), Aptroot 1996 (II), Litterski 1997 (III); pl/co, submo; ca, so.
- Fulglesia fulgida*** (Nyl.) Szatala - Litterski 1997 (I, III); pl/co, submo; so.
- Fulglesia subbracteata*** (Nyl.) Poelt - Vězda 1988a (IV, No. 2191), Aptroot 1996 (II), Litterski & Mayrhofer 1998 (I, IV); pl/co; ro, so.
- Fuscopannaria olivacea*** (P. M. Jørg.) P. M. Jørg. - Litterski 1997 (III, *Pannaria o.*); mo; Cd, Qu.
- Fuscopannaria saubinetii*** (MONT.) P. M. Jørg. - Litterski & Mayrhofer 1998 (III); submo; Qu.
- Gyalecta jenensis*** (Batsch) Zahlbr. - Litterski 1997 (III); mo; si.
- Haematomma nemetzii*** J. Steiner - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Heterodermia speciosa*** (Wulfen) Trevis. - Øvstedral 1987 (III); salp; Pi.

- Hymenelia prevostii*** (Duby) Kremp. - Aptroot 1996 (II); [pl/co]; ro.
- Hypocenomyce scalaris*** (Lilj.) M. Choisy - Krempelhuber 1865 (III, *Psora ostreata*), Litterski 1997 (III); [hmo], salp; Pi.
- Hypogymnia farinacea*** Zopf - Litterski 1997 (III); salp; Pi.
- Hypogymnia tubulosa*** (Schaer.) Hav. - Krempelhuber 1865 (III, *Parmelia ceratophylla* var. *t.*), Øvstedral 1987 (III), Litterski 1997 (III); mo, salp; Pi.
- Immersaria athroocarpa*** (Ach.) Rambold & Pietschm. - Krempelhuber 1865 (III, *Lecidea conformis*); [mo]; si.
- ****Kirschsteiniothelia aethiops*** (Berk. & M. A. Curtis) D. Hawksw. - Aptroot 1996 (III); mo; -.
- Lasallia pustulata*** (L.) Mérat - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Lecania cyrtella*** (Ach.) Th. Fr. - Litterski & Mayrhofer 1998 (I); pl/co; br.
- Lecania inundata*** (Hepp ex Körb.) M. Mayrhofer - Litterski 1997 (I); pl/co; sa.
- Lecania spadicea*** (Flot.) Zahlbr. - Aptroot 1996 (II), Litterski & Mayrhofer 1998 (I); pl/co; ca, ro.
- Lecania sylvestris*** (Arnold) Arnold - Aptroot 1996 (II); [pl/co]; ro.
- Lecania turicensis*** (Hepp) Müll. Arg. - Litterski & Mayrhofer 1998 (I); pl/co; ca, sa.
- Lecanographa grumulosa*** (Dufour) Egea & Torrente - Krempelhuber 1865 (V, *Lecanactis g.*), Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Lecanographa lyncea*** (Sm.) Egea & Torrente - Litterski & Mayrhofer 1998 (I); pl/co; Ce, Pi.
- Lecanora achariana*** A. L. Sm. - Aptroot 1996 (II); [pl/co]; ro.
- Lecanora allophana*** Nyl. - Krempelhuber 1865 (III, *Lecanora subfuscata* var. *distans*), Güvenc & Öztürk 1995 (IV, V); pl/co; Cr, Cu.
- Lecanora argentata*** (Ach.) Malme - Aptroot 1996 (III), Litterski 1997 (I, III); mo; Ac, Ce, Pi.
- Lecanora bolcana*** (Pollini) Poelt - Krempelhuber 1865 (?), III, *Placodium saxicolum* var. *diffractum*, Litterski 1997 (III), Litterski & Mayrhofer 1998 (I, III); pl/co, mo; sa, si.
- Lecanora campestris*** (Schaer.) Hue var. *campestris* - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Lecanora campestris*** (Schaer.) Hue var. *alba* de Lesd. - Vězda 1988a (IV, No. 2188); pl/co; ca.
- Lecanora chlarotera*** Nyl. - Güvenc & Öztürk 1995 (IV, V, *L. chlarona*, *L. chlarotera*), Kondratyuk & Poelt 1997 (III); pl/co, mo; Ce, Cu, Ol, Pi, Ps, Qu.
- Lecanora dispersa*** (L.) Sommerf. - Aptroot 1996 (III), Litterski 1997 (II); pl/co, [mo]; li, ro.
- Lecanora expallens*** Ach. - Aptroot 1996 (III); [mo]; Pi.
- Lecanora hagenii*** (Ach.) Ach. - Güvenc & Öztürk 1995 (V), Aptroot 1996 (III); pl/co, [mo]; Ps, Vi.
- Lecanora horiza*** (Ach.) Linds. - Güvenc & Öztürk 1995 (IV, *L. sienae*), Litterski 1997 (I, III); pl/co, mo, salp; Ci, Ol, Pi, Qu.
- Lecanora intumescens*** (Rebent.) Rabenh. - Aptroot 1996 (III); [mo]; Qu.
- Lecanora marginata*** (Schaer.) Hertel & Rambold - Krempelhuber 1865 (IV, *Lecidea elata*); [pl/co]; -.
- Lecanora meridionalis*** H. Magn. - Litterski & Mayrhofer 1998 (I); pl/co; Ce, Cs.
- Lecanora muralis*** (Schreb.) Rabenh. - Krempelhuber 1865 (III, *Placodium saxicolum*), Güvenc & Öztürk 1995 (V), Litterski 1997 (II, III); pl/co, mo, salp; li, si.
- Lecanora piniperda*** Körb. - Vězda 1988a (III, No. 2189), Aptroot 1996 (III); [mo], salp; Pi.
- Lecanora polytropa*** (Hoffm.) Rabenh. - Aptroot 1996 (III); [mo]; ro.
- Lecanora pruinosa*** Chaub. - Güvenc & Öztürk 1995 (V); pl/co; ro.
- Lecanora rupicola*** (L.) Zahlbr. - Litterski 1997 (III), Litterski & Mayrhofer 1998 (III); submo, mo; si.
- Lecanora saligna*** (Schrad.) Zahlbr. var. *sarcopsis* Ach. - Litterski & Mayrhofer 1998 (III); salp; Pi.
- Lecanora subintricata*** (Nyl.) Th. Fr. - Litterski 1997 (III); salp; Pi.
- Lecanora sulphurea*** (Hoffm.) Ach. - Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, mo; sa, si.
- Lecanora symmicta*** (Ach.) Ach. - Litterski & Mayrhofer 1998 (I); pl/co; Cs.
- Lecanora umbrina*** (Ach.) A. Massal. - Litterski 1997 (III); mo; Pi.
- Lecanora varia*** (Hoffm.) Ach. - Krempelhuber 1865 (III), Aptroot 1996 (III), Litterski 1997 (III); mo; Pi.
- Lecidea atrobrunnea*** (Lam. & DC.) Schaer. - Krempelhuber 1865 (III); [hmo]; -.
- Lecidea fuscoatra*** (L.) Ach. - Krempelhuber 1865 (?), *L. fumosa*, Aptroot 1996 (III), Litterski 1997 (III); submo, mo; ro, si.
- Lecidea hypopta*** Ach. - Øvstedral 1987 (III, cf.), Aptroot 1996 (III); [mo], salp (cf.); Pi.
- Lecidea lapicida*** (Ach.) Ach. var. *pantherina* Ach.

- Krempelhuber 1865 (III, *L. polycarpa*); [mo, hmo]; -.
- Lecidea lurida*** Ach. - Güvenc & Öztürk 1995 (V, *Psora l.*); submo; ca.
- Lecidea sarcogynoides*** Körb. - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Lecidella achristotera*** (Nyl.) Hertel & Leuckert - Güvenc & Öztürk 1995 (V); pl/co; Cr, Ps.
- Lecidella asema*** (Nyl.) Knoph & Hertel - Güvenc & Öztürk 1995 (V); pl/co; ca.
- Lecidella carpathica*** Körb. - Aptroot 1996 (III), Litterski 1997 (III); [mo], salp; ro, si.
- Lecidella elaeochroma*** (Ach.) M. Choisy - Krempelhuber 1865 (III, *Lecidea enteroleuca* var. *rugulosa*), Güvenc & Öztürk 1995 (IV, V), Litterski 1997 (III), Litterski & Mayrhofer 1998 (III); pl/co, mo, [hmo], salp; Ac, Ce, Ci, Cu, Ol, Pi, Ps, Qu.
- Lecidella euphorea*** (Flörke) Hertel - Krempelhuber 1865 (V, *Lecidea sabuletorum* var. *e.*), Güvenc & Öztürk 1995 (IV), Aptroot 1996 (III), Kondratyuk & Poelt 1997 (III); pl/co, mo; Ce, Pi, Qu.
- Lecidella stigmata*** (Ach.) Hertel & Leuckert - Aptroot 1996 (III); [mo]; ro.
- Lempholemma chalazanum*** (Ach.) de Lesd. - Krempelhuber 1865 (III, *Physma compactum* - *Collema ch.*); [mo]; -.
- Lempholemma elveloideum*** (Ach.) Zahlbr. - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Lepraria crassissima*** (Hue) Lettau var. *isidiata* Limona - Vězda 1988a (IV, No. 2192), Güvenc & Öztürk 1995 (V); pl/co; ca.
- Lepraria incana*** (L.) Ach. - Litterski 1997 (III); mo; Pi.
- Lepraria nivalis*** J. R. Laundon - Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, submo, mo; ca, si, so.
- Leprocaulon microscopicum*** (Vill.) D. Hawksw. - Litterski 1997 (III); submo, mo; so (among si).
- Leprolooma diffusum*** J. R. Laundon - Aptroot 1996 (III); [mo]; ro.
- Leptochidium albociliatum*** (Desm.) M. Choisy - Krempelhuber 1865 (III, *Collema a.*), Aptroot 1996 (III), Litterski 1997 (III); mo, [hmo]; mos, si, so.
- Leptogium biatorinum*** (Nyl.) Leight. - Aptroot 1996 (II); [pl/co]; ro, so.
- Leptogium corniculatum*** (Hoffm.) Minks - Aptroot 1996 (III); [mo]; so.
- Leptogium gelatinosum*** (With.) J. R. Laundon - Litterski 1997 (III), Litterski & Mayrhofer 1998 (III); submo, mo; mos.
- Leptogium lichenoides*** (L.) Zahlbr. - Krempelhuber 1865 (III, V, *L. atrocaeruleum*), Aptroot 1996 (III), Litterski 1997 (III); mo; Cd, ro, wo.
- Leptogium subtile*** (Schrad.) Tors. - Litterski & Mayrhofer 1998 (III); submo, mo; Qu.
- Leptogium teretiusculum*** (Wallr.) Arnold - Litterski & Mayrhofer 1998 (III); pl/co; so.
- Leptogium turgidum*** (Ach.) Cromb. - Krempelhuber 1865 (I, *Collema t.*); [pl/co]; -.
- Letharia vulpina*** (L.) Hue - Krempelhuber 1865 (III, *Evernia v.*), Petrak *et al.* 1941, Schade 1954 (III), Gams 1955, Hafellner 1987, Øvstedral 1987 (III), Vězda 1988b (III, No. 2250), Litterski 1997 (III); [hmo], salp; Pi.
- ****Lichenodiplis lecanorae*** (Vouaux) Dyko & D. Hawksw. - Aptroot 1996 (III); [mo]; on *Caloplaca cerina*.
- ****Lichenostigma elongata*** Nav.-Ros. & Hafellner - Navarro-Rosinés & Hafellner 1996 (IV); pl/co; on *Lobothallia radiososa*.
- Lobothallia praeradiosa*** (Nyl.) Hafellner - Litterski 1997 (III, *Aspicilia p.*); salp; si.
- Lobothallia radiososa*** (Hoffm.) Hafellner - Krempelhuber 1865 (II, *Placodium radiosum*), Hermann *et al.* 1973 (II, *Lecanora r.*), Litterski & Mayrhofer 1998 (III), Navarro-Rosinés & Hafellner 1996 (IV); pl/co, salp; si.
- Megaspora verrucosa*** (Ach.) Hafellner & V. Wirth var. *mutabilis* Nimis & Cl. Roux - Øvstedral 1987 (III, *Aspicilia m.*), Litterski 1997 (III); salp; Jn, Pi.
- Melanelia elegantula*** (Zahlbr.) Essl. - Litterski 1997 (III); salp; Pi.
- Melanelia exasperata*** (De Not.) Essl. - Krempelhuber 1865 (III, *P. aspera*), Esslinger 1977 (*Parmelia e.*, fig. 15), Litterski 1997 (III); mo, [hmo], salp; Pi, Qu.
- Melanelia exasperatula*** (Nyl.) Essl. - Øvstedral 1987 (III); salp; Pi.
- Melanelia glabra*** (Schaer.) Essl. - Litterski 1997 (III); mo; Ce, Cu, Qu.
- Melanelia glabratula*** (Lamy) Essl. - Litterski 1997 (III); mo; Pi.
- Melanelia laciniatula*** (H. Olivier) Essl. - Litterski 1997 (III); mo; Cd, Pi, Qu.
- Micarea erratica*** (Körb.) Hertel, Rambold & Pietschm. - Aptroot 1996 (III); [mo]; ro.
- Micarea misella*** (Nyl.) Hedl. - Litterski & Mayrhofer 1998 (III); pl/co; wo/Pi.
- Micarea prasina*** Fr. - Litterski 1997 (III); mo; cone (Pi).
- Moelleropsis nebulosa*** (Hoffm.) Gyeln. - Litterski & Mayrhofer 1998 (III); submo; so.

- Mycobilimbia hypnorum*** (Lib.) Kalb & Hafellner -
Litterski & Mayrhofer 1998 (III); pl/co; mo/so.
- Mycobilimbia sphaeroides*** (Dicks.) ined. - Flotow
1843 (*Lecidea sabuletorum, pilularis*); -; br.
- Naetrocymbe punctiformis*** A. Massal. - Aptroot
1996 (III, *Arthopyrenia p.*), Litterski &
Mayrhofer 1998 (I, *Arthopyrenia p.*); pl/co,
[mo]; Ne, Qu.
- Neofuscelia luteonotata*** (J. Steiner) Essl. - Vezda
1988a (IV, No. 2195, *Parmelia l.*); pl/co; si.
- Neofuscelia pulla*** (Ach.) Essl. - Güvenc & Öztürk
1994 (V, *Parmelia p.*), Aptroot 1996 (III),
Litterski 1997 (III), Litterski & Mayrhofer 1998
(I, III); pl/co, submo, mo; ro, si.
- Nephroma laevigatum*** Ach. - Litterski 1997 (III);
mo; Cd, Qu.
- Ochrolechia balcanica*** Versegely - Litterski 1997
(III); mo; Qu.
- Ochrolechia pallescens*** (L.) A. Massal. - Litterski
1997 (III); mo; Cd, Pi.
- Ochrolechia parella*** (L.) A. Massal. - Litterski 1997
(III); submo; si.
- Opegrapha calcarea*** Turner ex Sm. & Sowerby -
Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Opegrapha durieui*** Mont. - Roux & Egea 1992
(IV); pl/co; ca.
- ****Opegrapha physciaria*** (Nyl.) D. Hawksw. &
Coppins - Litterski & Mayrhofer 1998 (I); pl/co;
on *Xanthoria parietina* (thallus).
- Opegrapha rupestris*** Pers. - Krempelhuber 1865
(III); [submo]; sa.
- Opegrapha varia*** Pers. - Litterski 1997 (I), Litterski
& Mayrhofer 1998 (*O. v.* var. *herbarum*, var.
varia, I, III); pl/co, submo; Ce, Jn, Qu.
- Opegrapha variaeformis*** Anzi - Roux & Egea 1992
(IV); pl/co; ca.
- Parmelia saxatilis*** (L.) Ach. - Krempelhuber 1865
(III), Litterski 1997 (III); mo, [hmo]; Pi, si.
- Parmelia submontana*** Nadv. ex Hale - Litterski
1997 (III); mo; Cd, Pi.
- Parmelina carporrhizans*** (Taylor) Poelt & Vězda -
Krempelhuber 1865 (III, *Parmelia c.*); [mo]; -
- Parmelina pastillifera*** (Harm.) Hale - Litterski
1997 (III); mo; si.
- Parmelina quercina*** (Willd.) Hale - Aptroot 1996
(III); [mo]; Qu.
- Parmelina tiliacea*** (Hoffm.) Hale - Krempelhuber
1865 (?; III, *Parmelia quercifolia* a. t.), Güvenc
& Öztürk 1994 (V, *Parmelia t.*), Litterski 1997
(III); submo, mo; Cd, Ce, Pi.
- Parmeliella triptophylla*** (Ach.) Müll. Arg. - Flotow
1843 (*Biatora t.* var. *corallinoides*); -; -.
- Parmeliopsis ambigua*** (Wulfen) Nyl. - Litterski
1997 (III); salp; Pi.
- Peltigera canina*** (L.) Willd. - Litterski 1997 (III);
mo; so.
- Peltigera neckeri*** Müll. Arg. - Krempelhuber 1865
(I, as *P. polydactyla*, WU, teste), Litterski 1997
(III); [pl/co], mo; so.
- Peltigera rufescens*** (Weiss) Humb. - Aptroot 1996
(III), Litterski 1997 (III); mo; so.
- Pertusaria albescens*** (Huds.) M. Choisy & Werner
- Güvenc & Öztürk 1995 (V), Litterski 1997
(III); pl/co, submo, mo; ca, Cd, Cu, Pi, Qu, mos,
si.
- Pertusaria amara*** (Ach.) Nyl. - Güvenc & Öztürk
1995 (V); pl/co; Cu, so.
- Pertusaria coccodes*** (Ach.) Nyl. - Litterski 1997
(III); mo; Cd, Pi.
- Pertusaria flavicans*** Lamy - Litterski & Mayrhofer
1998 (I); pl/co; sa.
- Pertusaria hemisphaerica*** (Flörke) Erichsen -
Litterski & Mayrhofer 1998 (III); mo; Cd, Qu.
- Pertusaria hymenea*** (Ach.) Schaer. - Litterski 1997
(III); mo; Ce, Qu.
- Pertusaria leucostoma*** (Bernh.) A. Massal. -
Güvenc & Öztürk 1995 (V); pl/co; Ps.
- Pertusaria maximiliana*** Klem. - Litterski &
Mayrhofer 1998 (I); pl/co; Jn.
- Pertusaria pertusa*** auct. - Güvenc & Öztürk 1995
(V), Litterski 1997 (III); submo, mo; Cd, Ce, Cu,
Qu.
- Pertusaria rupicola*** (Fr.) Harm. var. *coralloidea*
(Anzi) Croz. - Litterski & Mayrhofer 1998 (III);
mo; si.
- ****Phacopsis vulpina*** Tul. - Hafellner 1987, Vězda
1988b (III, No. 2250); salp; on thallus of
Letharia vulpina.
- Phaeophyscia orbicularis*** (Neck.) Moberg -
Krempelhuber 1865 (III, *Anaptychia obscura*
var. *o.*), Kondratyuk & Poelt 1997 (III); mo; Qu.
- Phaeophyscia poeltii*** (Frey) Nimis - Aptroot 1996
(III); [mo]; Qu.
- Physcia adscendens*** (Fr.) H. Olivier -
Krempelhuber 1865 (III, *Anaptychia stellaris* v.
hispida), Güvenc & Öztürk 1994 (IV, V),
Aptroot 1996 (III), Litterski 1997 (III), Litterski
& Mayrhofer 1998 (III); pl/co, submo, mo, salp;
Ce, Cr, Cu, Ol, Pi, Ps, Qu, ro.
- Physcia aipolia*** (Ehrh. ex. Humb.) Fürnr. -
Krempelhuber 1865 (III, *Anaptychia stellaris* a.
a.), Güvenc & Öztürk 1994 (V), Øvstdal 1987
(III), Aptroot 1996 (III), Kondratyuk & Poelt
1997 (III); pl/co, mo, [hmo], salp; Ce, Pi, Qu.

- Physcia biziana* (A. Massal.) Zahlbr. - Aptroot 1996 (III), Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, [mo], salp; ca, Jn, Pi
- Physcia caesia* (Hoffm.) Fürnr. - Litterski 1997 (I, III); pl/co, mo; li, si.
- Physcia dimidiata* (Arnold) Nyl. - Litterski & Mayrhofer 1998 (III); pl/co; si.
- Physcia dubia* (Hoffm.) Lettau - Krempelhuber 1865 (III, *Anaptychia pulchella* var. *d.*); [mo, hmo]; ro.
- Physcia scopulorum* (Lambinon & Vězda) Poelt & Nimis - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Physcia semipinnata* (J. F. Gmel.) Moberg - Güvenc & Öztürk 1994 (IV, V), Aptroot 1996 (III), Kondratyuk & Poelt 1997 (III), Litterski & Mayrhofer 1998 (III); pl/co, submo, mo, salp; br, Ce, Cd, Cr, Cu, Ol, Pi, Ps, Qu.
- Physcia stellaris* (L.) Nyl. - Krempelhuber 1865 (III, *Anaptychia st. b. ambigua*), Aptroot 1996 (III), Litterski 1997 (III), Litterski & Mayrhofer 1998 (III); pl/co, mo, [hmo], salp; mos, si, Cd, Ol, Qu.
- Physcia tenella* (Scop.) DC. - Güvenc & Öztürk 1994 (IV, V), Aptroot 1996 (III); pl/co, submo, mo; Ce, Cr, Pi, Ps.
- Physconia americana* Essl. - GZU (III) (Troodos, Cedar Valley, on *Cedrus*, ca. 1000 m, leg. H. Mayrhofer 1987, det./rev. Th. Esslinger 1997); mo; Cd.
- Physconia distorta* (With.) J. R. Laundon - Krempelhuber 1865 (III, *Anaptychia pulverulenta* var. *muscicola*), Güvenc & Öztürk 1994 (V), Aptroot 1996 (III), Litterski 1997 (III), Kondratyuk & Poelt 1997 (III); submo, mo, hmo; Cd, Ce, Cu, Pi, Qu.
- Physconia enteroxantha* (Nyl.) Poelt - Litterski 1997 (III), Kondratyuk & Poelt 1997 (III); mo; Qu, si.
- Physconia grisea* (Lam.) Poelt - Krempelhuber 1865 (III, *Anaptychia pulverulenta* var. *g.*), Øvstdal 1987 (III); salp; Pi.
- Physconia muscigena* (Ach.) Poelt - Krempelhuber 1865 (III, *Anaptychia pulverulenta* var. *angustata*); [mo, hmo]; Jn.
- Physconia perisidiosa* (Erichsen) Moberg - Litterski 1997 (III); mo; Qu.
- Physconia subpulverulenta* (Szatala) Poelt - Litterski 1997 (III); mo; Qu.
- Physconia venusta* (Ach.) Poelt - Krempelhuber 1865 (III, *Anaptychia pulverulenta* var. *v.*); [mo]; -.
- Placidium adami-borosi* Szatala - Breuss 1990 (III, *Capapyrenium a.*); [hmo]; -.
- Placidium michelii* A. Massal. - Aptroot 1996 (II, *Capapyrenium m.*); [pl/co]; ro.
- Placidium rufescens* (Ach.) A. Massal. - Krempelhuber 1865 (III); [hmo]; -.
- Placidium semaforonense* (Breuss) Breuss - Breuss 1990 (I, *Capapyrenium s.*), Aptroot 1996 (II, *Capapyrenium s.*); [pl/co]; so.
- Placidium tenellum* (Breuss) Breuss - Breuss 1990 (V, *Capapyrenium t.*); [pl/co]; so.
- Placynthiella icmalea* (Ach.) Coppins & P. James - Aptroot 1996 (III); [mo]; Pi.
- Placynthium nigrum* (Huds.) Gray - Litterski & Mayrhofer 1998 (I, III); pl/co; sa, si.
- Platismatia glauca* (L.) W. L. Culb. et C. F. Culb. - Krempelhuber 1865 (III, *Cetraria g.*), Litterski 1997 (III); mo, [hmo]; Cd, Pi, Qu.
- Pleurosticta acetabulum* (Neck.) Elix & Lumbsch - Güvenc & Öztürk 1994 (V, *Parmelia a.*); submo; Cu.
- Porina linearis* (Leight.) Zahlbr. - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Porpidia melinodes* (Körb.) Gowan & P. James - Aptroot 1996 (III); [mo]; ro.
- Protoparmelia montagnei* (Fr.) Poelt & Nimis - Krempelhuber 1865 (I, II, *Placodium m.* var. *calcarea*), Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Pseudevernia furfuracea* (L.) Zopf - Krempelhuber 1865 (III, *Evernia f.*), Øvstdal 1987 (III), Litterski 1997 (III); mo, [hmo], salp; Pi, Qu.
- Psora decipiens* (Hedw.) Hoffm. - Flotow 1843 (*Biatora d.*), Krempelhuber 1865 (?), Güvenc & Öztürk 1995 (IV, V), Aptroot 1996 (II), Litterski 1997 (II, III); pl/co, submo; ca, so.
- Psora testacea* Hoffm. - Krempelhuber 1865 (III, *Psora t. var. turgida*); [mo]; -.
- Pyrenula chlorospila* Arnold - Litterski & Mayrhofer 1998 (I); pl/co; Ce.
- Pyrrhospora quernea* (Dicks.) Körb. - Litterski & Mayrhofer 1998 (I); pl/co; Cs, Jn.
- Ramalina breviuscula* Nyl. - Litterski & Mayrhofer 1998 (I); pl/co; sa, si.
- Ramalina calicaris* (L.) Fr. - Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, mo; Cd, Pr, Qu.
- Ramalina canariensis* J. Steiner - Güvenc & Öztürk 1994 (IV), Litterski 1997 (I), Litterski & Mayrhofer 1998 (I); pl/co; Ce, Pi, Ps, Pr.
- Ramalina capitata* (Ach.) Nyl. var. *digitellata* (Nyl.) Nimis - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Ramalina farinacea* (L.) Ach. - Krempelhuber

- 1865 (III), Güvenc & Öztürk 1994 (IV, V), Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, submo, mo, [hmo]; Pi, Pr, Qu.
- Ramalina fastigiata* (Pers.) Ach. - Güvenc & Öztürk 1994 (V), Litterski & Mayrhofer 1998 (III); pl/co, submo, mo; Cd, Cr, Ol, Pi, Ps, Qu.
- Ramalina fraxinea* (L.) Ach. - Krempelhuber 1865 (?), Güvenc & Öztürk 1994 (V); pl/co, submo; Cr, Pi, Ps.
- Ramalina obtusata* (Arnold) Bitter - Güvenc & Öztürk 1994 (V); pl/co; Ce, Cu, Ol, Pi, Ps.
- Ramalina pollinaria* (Westr.) Ach. - Krempelhuber 1865 (?); -; -.
- Ramalina pusilla* Le Prévost - Krempelhuber 1865 (V), Litterski & Mayrhofer 1998 (I); pl/co; Jn
- Ramalina roesleri* (Schaer.) Hue - Güvenc & Öztürk 1994 (V); pl/co, submo; Ce, Ps.
- Ramalina subfarinacea* (Cromb.) Nyl. - Güvenc & Öztürk 1994 (V); submo; Pi.
- Rhizocarpon geographicum* (L.) DC. - Krempelhuber 1865 (III), Aptroot 1996 (III), Litterski 1997 (III); submo, mo, hmo; ro, si.
- Rhizocarpon lecanorinum* Anders - Litterski 1997 (III); mo; si.
- Rhizocarpon macrosporum* Räsänen - Runemark 1956 (III); [mo]; -.
- Rhizocarpon obscuratum* (Ach.) A. Massal. - Aptroot 1996 (III); [mo]; ro.
- Rhizocarpon polycarpum* (Hepp) Th. Fr. - Litterski 1997 (III); submo; si.
- Rhizocarpon umbilicatum* (Ramond) Flagey - Aptroot 1996 (III); [mo]; ro.
- Rhizocarpon viridiatrum* (Wulfen) Körb. - Litterski & Mayrhofer 1998 (III); pl/co; sa.
- Rhizoplaca chrysoleuca* (Sm.) Zopf - Güvenc & Öztürk 1995 (V); pl/co; ca.
- Rimularia insularis* (Nyl.) Rambold & Hertel - Litterski & Mayrhofer 1998 (III); mo; si, on *Lecanora rupicola*.
- Rinodina bischoffii* (Hepp) A. Massal. - Litterski & Mayrhofer 1998 (I, IV); pl/co; ca.
- Rinodina capensis* Hampe - Giralt & Mayrhofer 1994 (III); mo; Cd.
- Rinodina dalmatica* Zahlbr. - Litterski & Mayrhofer 1998 (I); pl/co; Pi.
- Rinodina dubiana* (Hepp) J. Steiner - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Rinodina exigua* (Ach.) Gray - Güvenc & Öztürk 1995 (IV), Aptroot 1996 (III), Litterski 1997 (III); pl/co, submo, mo; Cd, Cu, Pi, Ps, Qu.
- Rinodina gennarii* Bagl. - Litterski & Mayrhofer 1998 (III); pl/co; sa.
- Rinodina guzzinii* Jatta - Litterski & Mayrhofer 1998 (III); pl/co; sa.
- Rinodina ilimonae* Giralt & Etayo - Giralt & Mayrhofer 1995 (III); salp; Jn, Pi.
- Rinodina oxydata* (A. Massal.) A. Massal. - Aptroot 1996 (III); [mo]; ro.
- Rinodina pyrina* (Ach.) Arnold - Giralt & Mayrhofer 1995 (IV), Güvenc & Öztürk 1995 (IV), Aptroot 1996 (III), Litterski 1997 (III); pl/co, mo; Ce, Pi, Qu, Vi.
- Rinodina septentrionalis* Malme - Giralt & Mayrhofer 1995 (III); mo, salp; Pi, Qu.
- Rinodina sophodes* (Ach.) A. Massal. - Giralt & Mayrhofer 1995 (III), Aptroot 1996 (III), Litterski 1997 (III); mo, salp; Cd, Qu.
- Rinodina teichophila* (Nyl.) Arnold - Litterski & Mayrhofer 1998 (I); pl/co; sa.
- Rinodina trachytica* (A. Massal.) Bagl. & Carestia - Mayrhofer et al. 1992 (III); [submo]; si.
- Roccella phycopsis* Ach. - Güvenc & Öztürk 1994 (V), Litterski & Mayrhofer 1998 (I); pl/co; ca, Pi, sa.
- Sarcogyne regularis* Körb. - Aptroot 1996 (II), Litterski & Mayrhofer 1998 (III, IV); pl/co; ca, ro, si.
- Schismatomma decolorans* (Sm.) Clauzade & Vězda - Litterski & Mayrhofer 1998 (I); pl/co; Ce.
- Solenopsora candicans* (Dicks.) J. Steiner - Güvenc & Öztürk 1995 (V); submo; ca.
- Solenopsora cesatii* A. Massal. var. *cesatii* - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Solenopsora cesatii* A. Massal. var. *grisea* (Bagl.) Nimis - Güvenc & Öztürk 1995 (V, *S. bagliettoana*), Litterski & Mayrhofer 1998 (I); pl/co; ca, mo.
- Solenopsora olivacea* (Fr.) H. Kilias - Krempelhuber 1865 (V, *Biatorina Micheletiana*); [pl/co]; -.
- Squamarina cartilaginea* (With.) P. James - Flotow 1843 (*Lecanora crassa*, *Lecanora crassa* f. *macra*), Krempelhuber 1865 (IV, *Psoroma crassum* B. *caespitosum*), Güvenc & Öztürk 1995 (IV, V), Aptroot 1996 (II), Litterski 1997 (I, III); pl/co; ca, mo, so.
- Squamarina concrescens* (Müll. Arg.) Poelt - Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, submo; so.
- Squamarina lentigera* (Weber) Poelt - Flotow 1843 (*Lecanora l.*), Krempelhuber 1865 (IV, *Psoroma lentigerum*), Güvenc & Öztürk 1995 (IV), Aptroot 1996 (II), Litterski 1997 (III), Litterski & Mayrhofer 1998 (I, III); pl/co, submo; ca, so.

- Staurothele rufa*** (A. Massal.) Zschacke - Aptroot 1996 (II); [pl/co]; ro.
- Tephromela atra*** (Huds.) Hafellner - Flotow 1843 (*Lecanora a.*), Krempelhuber 1865 (III, IV, *Lecanora a.*), Litterski 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, submo, mo; sa, si, Ac.
- Tephromela atra*** (Huds.) Hafellner var. *cypria* (Körb.) Nimis - Koerber 1862 (*Lecanora cypria*); -; ca.
- Thelopsis isiaca*** Stizenb. - Litterski 1997 (I); pl/co; Ce.
- Toninia aromatica*** (Sm.) A. Massal. - Timdal 1991; -; -.
- Toninia cinereovirens*** (Schaer.) A. Massal. - Timdal 1991; -; -.
- Toninia diffracta*** (A. Massal.) Zahlbr. - Timdal 1991; -; -.
- Toninia episema*** (Nyl.) Timdal - Timdal 1991; -; -.
- Toninia massata*** (Tuck.) Herre - Timdal 1991; -; -.
- Toninia plumbina*** (Anzi) Hafellner & Timdal - Timdal 1991; -; -.
- Toninia sedifolia*** (Scop.) Timdal - Krempelhuber 1865 (III, *Thalloidima vesicularis*), Timdal 1991, Güvenc & Öztürk 1995 (V, *T. caeruleonigricans*), Aptroot 1996 (II), Litterski 1997 (II, III), Litterski & Mayrhofer 1998 (I); pl/co, submo; ca, so.
- Toninia toepfferi*** (Stein) Navas - Litterski 1997 (III); submo; so.
- Toninia tristis*** (Th. Fr.) Th. Fr. - Vězda 1988c (IV, No. 2262); pl/co; so.
- Toninia tristis*** (Th. Fr.) Th. Fr. ssp. *pseudotabacina* Timdal - Timdal 1991; -; -.
- Topelia heterospora*** (Zahlbr.) P. M. Jørg. & Vězda - Litterski & Mayrhofer 1998 (I); pl/co; ca.
- Tornabea scutellifera*** (With.) J. R. Laundon - Güvenc & Öztürk 1994 (V, *Anaptychia intricata*), Litterski & Mayrhofer 1998 (III); submo, mo; br, Cu.
- Trapelia coarctata*** (Sm.) M. Choisy - Aptroot 1996 (III), Litterski & Mayrhofer 1998 (III); pl/co, [mo]; ro, so.
- Usnea ceratina*** Ach. - Krempelhuber 1865 (III); [mo, hmo]; -.
- Usnea scabrata*** Nyl. - Litterski 1997 (III); mo; Qu.
- Usnea subfloridana*** Stirz. - Litterski 1997 (III); mo; Pi.
- Verrucaria calciseda*** DC. - Krempelhuber 1865 (II), Aptroot 1996 (II), Litterski 1997 (I, II); pl/co; ca, li, ro.
- Verrucaria fuscella*** (Turner) Winch - Krempelhuber 1865 (IV); [pl/co]; -.
- Verrucaria geophila*** Zahlbr. - Litterski & Mayrhofer 1998 (I); pl/co; so.
- Verrucaria lecideoides*** (A. Massal.) Trevis. - Krempelhuber 1865 (IV); [pl/co]; -.
- Verrucaria macrostoma*** Dufour - Aptroot 1996 (II); [pl/co]; ro.
- Verrucaria muralis*** Ach. - Aptroot 1996 (II, III), Litterski 1997 (I, III); pl/co, submo, mo; ca, li, ro, sa, si.
- Verrucaria nigrescens*** Pers. - Krempelhuber 1865 (II), Litterski 1997 (I, II); pl/co; ca, li, sa.
- Xanthoparmelia conspersa*** (Ach.) Hale - Krempelhuber 1865 (III, *Parmelia c.*), Litterski 1997 (III); mo; si.
- Xanthoria aphrodites*** Kalb, Poelt & S. Kondratyuk - Kondratyuk & Poelt 1997 (III); mo; Qu.
- Xanthoria calcicola*** Oxner - Krempelhuber 1865 (?; *Physcia parietina* var. *aureola*), Güvenc & Öztürk 1994 (V, *X. aureola*), Litterski 1997 (I); pl/co, submo; ca, si.
- Xanthoria candelaria*** (L.) Th. Fr. - Litterski 1997 (III), Kondratyuk & Poelt 1997; mo, salp; Pi, Qu.
- Xanthoria ectaneoides*** (Nyl.) Zahlbr. - Krempelhuber 1865 (V, *Physcia parietina* var. *ectanea*); [pl/co]; -.
- Xanthoria elegans*** (Link) Th. Fr. - Güvenc & Öztürk 1994 (V); pl/co; si.
- Xanthoria cf. fulva*** (Hoffm.) Poelt & Petutschig - Kondratyuk & Poelt 1997 (III, poorly developed); mo; Qu.
- Xanthoria mediterranea*** Giralt, Nimis & Poelt - Giralt et al. 1993 (I), Litterski 1997 (I); pl/co; ca, li.
- Xanthoria parietina*** (L.) Th. Fr. - Krempelhuber 1865 (IV, V, *Physcia p.*), Güvenc & Öztürk 1994 (IV, V), Aptroot 1996 (III), Litterski 1997 (I, III), Kondratyuk & Poelt 1997 (III), Litterski & Mayrhofer 1998 (I); pl/co, submo, mo; Be, Ce, Cr, Cu, Ol, Pi, Ps, Qu, Vi, br.
- Xanthoria stiligera*** Giralt, Nimis & Poelt - Giralt et al. 1993 (I, IV); pl/co; ca.

Taxonomically not clear records

- Placodium fusco-pallens*** Kremp. - Krempelhuber 1865 (?), typus in M; -; sa.
- Porpidia stipata*** Kremp. - Krempelhuber 1865 (III), typus in M; [hmo]; wo.

Dubious records

- Lecanora subfusca** (L.) Ach. - Güvenc & Öztürk
1995 (V); pl/co; Ce.
Parmelia olivacea L. - Krempelhuber 1865 (?; III);
[pl/co, mo]; -; a species of *Melanelia*.
Physcia parietina L. var. *granulata* Schaeer. -
Krempelhuber 1865 (IV); [pl/co]; -; probably
Xanthoria stiligera or *Xanthoria mediterranea*.
Roccella tinctoria Ach. - Krempelhuber 1865 (IV,
V); [pl/co]; -; probably *Roccella phycopsis*.
Zeora sordida Pers. var. *pallide-flava* Kremp. -
Krempelhuber 1865 (?); -; -; probably *Lecanora*
rupicola.

Index of synonyms

- Alectoria jubata* = *Bryoria fuscescens*
Anaptychia intricata = *Tornabea scutellifera*
Anaptychia obscura var. *orbicularis* = *Phaeophyscia orbicularis*
Anaptychia pulchella var. *dubia* = *Physcia dubia*
Anaptychia pulverulenta var. *angustata* = *Physconia muscigena*
Anaptychia pulverulenta var. *grisea* = *Physconia grisea*
Anaptychia pulverulenta var. *muscicola* = *Physconia distorta*
Anaptychia pulverulenta var. *venusta* = *Physconia venusta*
Anaptychia stellaris v. *aipolia* = *Physcia aipolia*
Anaptychia stellaris v. *ambigua* = *Physcia stellaris*
Anaptychia stellaris v. *hispida* = *Physcia adscendens*
Arthopyrenia punctiformis = *Naetrocymbe punctiformis*
Aspicilia mutabilis = *Megaspore verrucosa* var.
mutabilis
Aspicilia praeradiosa = *Lobothallia praeradiosa*
Aspicilia viridescens = *Aspicilia contorta*
Biatora decipiens = *Psora decipiens*
Biatora triptophylla var. *corallinoides* = *Parmeliella triptophylla*
Biatorina micheletiana = *Solenopsora olivacea* ssp.
olivacea
Blastenia lallavei = *Caloplaca erythrocarpa*
Buellia punctata = *Amandinea punctata*
Buellia venusta = *Diplotomma venustum*
Callopisma aurantiacum B. *flavovirescens* = *Caloplaca flavovirescens*
Callopisma cerinum = *Caloplaca cerina*
Catapyrenium adami-borosi = *Placidium adami-borosi*

- Catapyrenium michelii* = *Placidium michelii*
Catapyrenium semaforonense = *Placidium semaforonense*
Catapyrenium tenellum = *Placidium tenellum*
Cetraria glauca = *Platismatia glauca*
Cladonia chlorophaeaa see *Cladonia pyxidata*
Cladonia endiviaefolia = *Cladonia convoluta*
Cladonia endivifolia = *Cladonia convoluta*
Cladonia pyxidata c. *pocillum* = *Cladonia pocillum*
Collema albo-ciliatum = *Leptochidium albociliatum*
Collema turgida = *Leptogium turgidum*
Diploschistes calcarius = *Diploschistes candidissima*
Diplotomma epipodium = *Diplotomma alboatrum*
Dirina repanda see *Dirina massiliensis* f. *massiliensis*
Dirina stenhammari = *Dirina massiliensis* f. *sorediata*
Endocarpon miniatum = *Dermatocarpon miniatum*
Endocarpon nodulosum = *Dermatocarpon nodulosum*
Evernia furfuracea = *Pseudevernia furfuracea*
Gyalolechia bracteata = *Fulglesia bracteata*
Lecanactis grumulosa = *Lecanographa grumulosa*
Lecanora atra = *Tephromela atra*
Lecanora chlarona = *Lecanora chlarotera*
Lecanora crassa = *Squamaria cartilaginea*
Lecanora crassa f. *macra* = *Squamaria cartilaginea*
Lecanora cypria = *Tephromela atra* var. *cypria*
Lecanora lentigera = *Squamaria lentigera*
Lecanora murorum y. *callopisma* = *Caloplaca saccicola*
Lecanora sienae = *Lecanora horiza*
Lecanora subfuscata var. *distans* = *Lecanora allophana*
Lecidea conformis = *Immersaria athroocarpa*
Lecidea elata = *Lecanora marginata*
Lecidea enteroleuca var. *rugulosa* = *Lecidella elaeochroma*
Lecidea fumosa = *Lecidea fuscoatra*
Lecidea polycarpa = *Lecidea lapicida* var. *pantherina*
Lecidea sabuletorum var. *euphorea* = *Lecidella euphorea*
Lecidea sabuletorum, *pilaris* = *Mycobilimbia sphaerooides*
Leptogium atrocaeruleum = *Leptogium lichenoides*
Limboria candidissima = *Diploschistes candidissimus*
Parmelia acetabulum = *Pleurosticta acetabulum*
Parmelia ceratophylla var. *tubulosa* = *Hypogymnia*

tubulosa
Parmelia aspera = *Melanelia exasperata*
Parmelia carporrhizans = *Parmelina carporrhizans*
Parmelia conspersa = *Xanthoparmelia conspersa*
Parmelia exasperata = *Melanelia exasperata*
Parmelia luteonotata = *Neofuscelia luteonotata*
Parmelia pulla = *Neofuscelia pulla*
Parmelia quercifolia a *tiliacea* = *Parmelina tiliacea*
Parmelia tiliacea = *Parmelina tiliacea*
Peltigera polydactyla see *Peltigera neckeri*
Physcia callopisma = *Caloplaca flavescens*
Physcia parietina = *Xanthoria parietina*
Physcia parietina var. *aureola* = *Xanthoria calcicola*
Physcia parietina var. *ectanea* = *Xanthoria ectaneoides*
Physma compactum, *Collema chalazanum* = *Lempholemma chalazanum*
Placodium montagnei var. *calcarea* = *Protoparmelia montagnei*
Placodium radiosum = *Aspicilia radiosa*
Placodium saxicolum = *Lecanora muralis*
Placodium saxicolum var. *diffractum* = *Lecanora bolcana*
Psora lurida = *Lecidea lurida*
Psora ostreata = *Hypocenomyce scalaris*
Psoroma crassum B. *caespitosum* = *Squamaria cartilaginea*
Psoroma fulgens = *Fulglesia fulgens*
Psoroma lentigerum = *Squamaria lentigera*
Thalloidima vesicularis = *Toninia sedifolia*
Toninia caeruleonigricans = *Toninia sedifolia*
Urceolaria calcarea = *Aspicilia calcarea*
Urceolaria ocellata = *Diploschistes ocellatus*
Urceolaria scruposa var. *gypsacea*, var. *cretacea* = *Diploschistes gypsaceus*
Urceolaria scruposa var. *bryophila*, var. *arenaria* = *Diploschistes muscorum*
Urceolaria villarsii = *Diploschistes ocellatus*
Urceolaria villarsii var. *macrior* = *Diploschistes muscorum*
Xanthoria aureola = *Xanthoria calcicola*

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