

Feb 28 2012

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Dothideales</b>				
Dothioraceae				
<i>Plowrightia</i>	<b>mereschowskyi</b> Vouaux: on <i>Aspicilia hispida</i>	Clauzade et al. 1989		
<b>Pleosporales</b>				
Leptosphaeriaceae				
<i>Leptosphaeria</i> s.l.	<b>clarkii</b> D. Hawksw.: on <i>Peltigera protousneae</i> Etayo: on <i>Protousnea pycnostigma</i> (Nyl.) Sacc. & D. Sacc.: on <i>Baeomyces ramalinae</i> (Desm.) Sacc.: on <i>Ramalina</i>	Clauzade et al. 1989 Etayo & Sancho 2008 Hawksworth 1980b		
<i>Ophiobolus</i> s.l.	<b>aspiciliae</b> (H. Olivier) Vouaux: on <i>Aspicilia</i>	Clauzade et al. 1989		
Pleosporaceae				
<i>Leptosphaerulina</i>	<b>peltigerae</b> (Fuckel) Riedl: on <i>Peltigera</i>	Hawksworth 1980b		
<i>Pleospora</i>	<b>collematum</b> Zukai: on Collemataceae <b>crozalsii</b> Vouaux: on <i>Sticta sylvatica</i> <b>'Verrucaria' congestula</b> Cromb.: on <i>Placopsis macrophthalma</i> [a taxon of uncertain position]	Clauzade et al. 1989 Hawksworth 1978a Tretiach & Nimis 1999		
<b>Patellariales</b>				
Patellariaceae				
<i>Stratisporella</i>	<b>episemoides</b> (Nyl.) Hafellner: on <i>Enterographa</i>	Aptroot et al. 1997 Hafellner 1979 Kutorga & Hawksworth 1997		

<i>Tryblidaria</i>	<b>capensis</b> (Stizenb.) Vouaux: on <i>Buellia callaina</i>	Clauzade et al. 1989		
<b>Incertae sedis</b>				
Dacampiaceae				
<i>Clypeococcum</i>	<p><b>bisporum</b> Zhurb.: on <i>Cetraria</i> and <i>Flavocetraria</i></p> <p><b>cetrariae</b> Hafellner: on <i>Cetraria islandica</i></p> <p><b>cladonema</b> (Wedd.) D. Hawksw.: on <i>Cetrelia</i> and <i>Xanthoparmelia</i></p> <p><b>epimelanostolum</b> (D. Hawksw. &amp; Øvstedal) Grube &amp; Hafellner: on <i>Buellia melanostola</i></p> <p><b>galloides</b> Etayo: on <i>Lecidea</i> s.l.</p> <p><b>grossum</b> (Körb.) D. Hawksw.: on <i>Umbilicaria</i></p> <p><b>hypocenomycis</b> D. Hawksw.: on <i>Hypocenomyce scalaris</i></p> <p><b>placopsiiphilum</b> Øvstedal &amp; D. Hawksw.: on <i>Placopsis</i></p> <p><b>psoromatis</b> (A. Massal.) Etayo [=epicrassum] (H. Olivier) Hafellner &amp; Nav.-Ros.]: on <i>Squamarina</i></p>	<p>Etayo 2010b</p> <p>Etayo &amp; Triebel 2010</p> <p>Grube &amp; Hafellner 1990</p> <p>Hafellner 1994a</p> <p>Hafellner 1995</p> <p>Hawksworth 1977a</p> <p>Hawksworth 1980a</p> <p>Hawksworth 1982a</p> <p>Navarro-Rosinés et al. 1994</p> <p>Øvstedal &amp; Hawksworth 1986</p> <p>Zhurbenko 2009a</p>	<b>hypocenomycis</b> : Culture obtained by Crittenden et al. (1995)	
<i>Dacampia</i>	<p><b>caloplacicola</b> Halici, Candan &amp; Etayo: on <i>Caloplaca</i></p> <p><b>cladoniicola</b> Halici &amp; A. Ö. Türk: on <i>Cladonia</i></p> <p><b>cyrtellae</b> Brackel: on <i>Lecania cyrtella</i></p> <p><b>engeliana</b> (Saut.) A. Massal.: on <i>Solorina</i></p> <p><b>hookeri</b> (Borrer) A. Massal.: on <i>Solorina</i>, probably lichenized</p> <p><b>lecaniae</b> Kocourk. &amp; K. Knudsen: on <i>Lecania fuscella</i></p> <p><b>leptogiicola</b> (D. Hawksw.) D. Hawksw.: on <i>Leptogium</i></p> <p><b>muraliicola</b> Halici &amp; D. Hawksw.: on</p>	<p>Brackel 2010a</p> <p>Brackel 2010b</p> <p>Earland-Bennett et al. 2006</p> <p>Halici &amp; Hawksworth 2008</p> <p>Halici et al. 2008</p> <p>Halici et al. 2009a</p> <p>Halici et al. 2009b</p> <p>Hawksworth 1980b</p> <p>Hawksworth 1986</p> <p>Henssen 1995</p> <p>Kocourková &amp; Knudsen 2010b</p>		

	<p><i>Lecanora muralis</i></p> <p><b>peltigericola</b> D. Hawksw. &amp; C.J.B. Hitch: on <i>Peltigera</i></p> <p><b>rhizocarpicola</b> D. Hawksw.: on <i>Rhizocarpon</i></p> <p><b>rubra</b> Halici, Candan &amp; Calat.: on <i>Aspicilia</i></p> <p><b>rufescentis</b> (Vouaux) D. Hawksw.: on <i>Peltigera</i></p> <p><b>xanthomendozae</b> Etayo &amp; Halici: on <i>Xanthomendoza</i></p>			
<i>Polycoccum</i>	<p><b>acarosporicola</b> Halici &amp; D. Hawksw.: on <i>Acarospora cervina</i></p> <p><b>aksoyi</b> Halici &amp; V. Atienza: on <i>Aspicilia</i></p> <p><b>alboatrae</b> (Vouaux) Etayo: on <i>Diplotomma venustum</i></p> <p><b>amygdalariae</b> F. Berger &amp; Triebel: on <i>Amygdalaria</i></p> <p><b>arnoldii</b> (Hepp) D. Hawksw.: on <i>Diploschistes</i> and <i>Rhizocarpon</i></p> <p><b>bryonthae</b> (Arnold) Vězda: on <i>Caloplaca cerina</i> and <i>Pertusaria bryontha</i></p> <p><b>cartilagosum</b> (Arnold) D. Hawksw.: on an unidentified saxicolous lichen?</p> <p><b>cladoniae</b> Diederich &amp; D. Hawksw.: on <i>Cladonia</i></p> <p><b>clauzadei</b> Nav.-Ros. &amp; Cl. Roux: on <i>Xanthoria elegans</i></p> <p><b>crassum</b> Vězda: on <i>Peltigera</i></p> <p><b>crespoe</b> Váczi &amp; D. Hawksw.: on <i>Chondropsis</i></p> <p><b>decolorans</b> Calat. &amp; Triebel: on <i>Immersaria</i></p> <p><b>deformans</b> R. Sant., nom. nud.: on <i>Placopsis</i></p> <p><b>dictyonematis</b> Etayo &amp; R. Sant.: on</p>	<p>Alstrup 2002</p> <p>Aptroot et al. 1997</p> <p>Atienza &amp; Hawksworth 2008</p> <p>Atienza et al. 2003</p> <p>Berger 2000</p> <p>Calatayud 2004</p> <p>Calatayud &amp; Atienza 2000</p> <p>Calatayud &amp; Rambold 1998</p> <p>Calatayud &amp; Rico 1995</p> <p>Clauzade et al. 1989</p> <p>Diederich 1990</p> <p>Etayo 1996</p> <p>Etayo 2010b</p> <p>Etayo 2010c</p> <p>Etayo &amp; Diederich 1998</p> <p>Etayo &amp; Sancho 2008</p> <p>Galloway 2004</p> <p>Gaya &amp; Navarro-Rosinés 2008</p> <p>Halici et al. 2007</p> <p>Halici et al. 2009</p> <p>Hawksworth 1985b</p> <p>Hawksworth 1994</p> <p>Hawksworth &amp; Diederich 1988</p> <p>Hawksworth &amp; Miadlikowska 1997a</p> <p>Kocourková &amp; Berger 1999</p> <p>Kondratyuk 2008</p> <p>Matzer 1996</p> <p>Navarro-Rosinés 1992</p>	<b>peltigerae</b> : CBS 112.77	<b>vermicularium</b> : nrLSU: AY961601

*Dictyonema*

**diederichianum** Nav.-Ros.: on *Placynthium*

**dzieduszyckii** (Boberski) D. Hawksw.: on

*Bagliettoa*

**epicrassum** (H. Olivier) R. Sant.: on

*Squamarina*

**epiphyllum** Matzer: on foliicolous

*Trichothelium*

**epizoharyi** Calat. & V. Atienza: on *Buellia*

*zoharyi*

**evae** Calat. & V.J. Rico: on *Dimelaena*

**follmannii** (C.W. Dodge) Alstrup: on *Lecidea*

*cremoricolor*

**heterodermiae** Calat.: on *Heterodermia*

**hymenicola** (Berk. & Broome) Zhurb.: on

*Lobaria*

**infestans** (Speg.) Etayo: on *Teloschistes*

**innatum** (Müll. Arg.) D. Hawksw.: on an

unidentified corticolous lichen

**jamesii** D. Hawksw.: on *Psoromidium*

**kaernefeltii** S. Y. Kondr.: on *Teloschistes*

**keneri** J. Steiner: on *Lecidea fuscoatra*

**laursenii** Zhurb.: on *Cladonia*

**longisporum** Etayo: on *Pseudocyphellaria*

**marmoratum** (Kremp.) D. Hawksw.: on

*Thelidium* and *Verrucaria*

**microcarpum** Diederich & Etayo: on

*Cladonia*

**microstictum** (Leight.) Arnold: on

*Acarospora* and possibly *Buellia* and

*Rhizocarpon*

**minutulum** Kocourk. & F. Berger: on

*Trapelia*

Navarro-Rosinés & Roux 1990

Navarro-Rosinés & Roux 1998

Váczi & Hawksworth 2001

van den Boom 2010

Zhurbenko 2007b

Zhurbenko 2010b

Zhurbenko & Dillman 2010

**montis-wilhelmii** Diederich: on  
*Hypotrachyna*  
**nigrosporum** Etayo: on *Buellia aethalea*  
**opulentum** (Th. Fr. & Almq.) Arnold: on  
*Polyblastia*  
**peltigerae** (Fuckel) Vězda: on *Peltigera*  
**psorae** Zhurb. & Triebel: on *Anamylopsora*  
*pulcherrima*  
**pulvinatum** (Eitner) R. Sant.: on *Physcia*  
**rinodinae** van den Boom: on *Rinodina*  
**rubellianae** Calat. & V. Atienza: on  
*Caloplaca*  
**rugulosarium** (Linds.) D. Hawksw.: on  
*Caloplaca*  
**serusiauxii** Matzer: on foliicolous  
*Byssolecania*  
**slaptoniense** D. Hawksw.: on *Xanthoria*  
**sporastatae** Arnold: on *Sporastatia*  
**squamarioides** (Mudd) Arnold: on  
*Placopsis*  
**stictaria** (Linds.) D.J. Galloway: on  
*Pseudocyphellaria*  
**superficiale** D. Hawksw. & Miqdl.: on  
*Peltigera*  
**teresum** Halici & K. Knudsen: on *Xanthoria*  
**tinantii** Diederich: on *Caloplaca*  
**trypethelioides** (Th. Fr.) R. Sant.: on  
*Stereocaulon*  
**umbilicariae** (Linds.) D. Hawksw.: on  
*Lasallia*  
**ventosicola** Zhurb.: on *Ophioparma ventosa*  
**vermicularium** (Linds.) D. Hawksw.: on  
*Thamnia*

	<b>versisporum</b> (Bagl. & Carestia) D. Hawksw.: on <i>Rhizocarpon geographicum</i> and an unidentified saxicolous lichen			
<i>Pseudonitschka</i>	<b>parmotrematis</b> Coppins & S. Y. Kondr.: on <i>Parmotrema</i>	Coppins & Kondratyuk 1995		
<i>Pyrenidium</i>	<b>actinellum</b> Nyl.: on <i>Leptogium</i> <b>aggregatum</b> Knudsen & Kocourk.: on <i>Phaeophyscia</i> and <i>Physcia</i> <b>cryptotheciae</b> Matzer: on foliicolous <i>Cryptothecia candida</i> <b>hetairizans</b> (Leight.) D. Hawksw.: on <i>Staurothele</i> <b>hyalosporum</b> Alstrup, D. Hawksw. & R. Sant.: on <i>Placopsis</i> <b>octosporum</b> Looman: on an unidentified lichen <b>santessonii</b> Lücking: on <i>Bacidia psychotriae</i> and <i>Bapalmuia</i> <b>sporopodiorum</b> Matzer: on foliicolous <i>Sporopodium</i> <b>zamia</b> (Müll. Arg.) Matzer: on foliicolous <i>Porina</i>	Alstrup & Hawksworth 1990 Looman 1962 Lücking 1998 Matzer 1996		
<i>Weddellomyces</i>	<b>aspiciicola</b> Alstrup: on <i>Lobothallia</i> <b>epicallopisma</b> (Wedd.) D. Hawksw.: on <i>Caloplaca</i> and <i>Protoblastenia</i> <b>erythrocarpae</b> Nav.-Ros. & Cl. Roux: on <i>Caloplaca erythrocarpa</i> <b>gasparrinae</b> (C.W. Dodge) D. Hawksw. & Iturr.: on ? <i>Caloplaca</i> <b>geographicola</b> (Arnold) Alstrup & D. Hawksw.: on <i>Rhizocarpon</i> <b>heterochrous</b> Nav.-Ros. & Cl. Roux: on <i>Aspicilia</i>	Alstrup 1992 Alstrup & Hawksworth 1990 Calatayud & Navarro-Rosinés 1998 Halici et al. 2006 Hawksworth 1978a Hawksworth 1986 Hawksworth 1990a Hawksworth & Iturriaga 2006 Navarro-Rosinés & Roux 1995 Navarro-Rosinés & Roux 1997b		

	<p><b>macrosporus</b> D. Hawksw., Renob. &amp; Coppins: on <i>Aspicilia calcarea</i></p> <p><b>pachyosporicola</b> Nav.-Ros. &amp; Cl. Roux: on <i>Aspicilia</i></p> <p><b>periphericus</b> (Taylor) Alstrup &amp; D. Hawksw.: on <i>Pertusaria pseudocorallina</i></p> <p><b>protearius</b> Nav.-Ros. &amp; Cl. Roux: on <i>Caloplaca proteus</i></p> <p><b>turcicus</b> Halici &amp; Orange: on <i>Acarospora</i></p> <p><b>xanthoparmeliae</b> Calat. &amp; Nav.-Ros.: on <i>Xanthoparmelia</i></p>			
Dimeriaceae				
<i>Keratospaera</i>	<p><b>batistae</b> H. B. P. Upadhyay: on foliicolous <i>Mazosia</i> [anamorphs: <i>Sphaeromma mazosiae</i> H. B. P. Upadhyay and <i>Sporhaplus rondoniensis</i> H. B. P. Upadhyay]</p> <p><b>dimerellae</b> Matzer: on foliicolous <i>Dimerella</i></p> <p><b>furcatisetata</b> Matzer: on foliicolous <i>Porina</i> [anamorph: <i>Sphaeromma furcatisetata</i> Matzer]</p> <p>multiseptata ...</p> <p><b>porinae</b> Matzer: on foliicolous <i>Porina</i> [anamorph: <i>Sphaeromma porinae</i> Matzer]</p>	Matzer 1996		
Lichenotheliaceae				
<i>Lichenostigma</i>	<p><b>amplum</b> Calat. &amp; Hafellner: on <i>Buellia</i></p> <p><b>anatolicum</b> Halici &amp; Kocakaya: on brown <i>Acarospora</i></p> <p><b>bolacinae</b> Nav.-Ros., Calat. &amp; Hafellner: on <i>Caloplaca bolacina</i></p> <p><b>canariense</b> Etayo &amp; van den Boom: on <i>Aspicilia calcarea</i></p> <p><b>cosmopolites</b> Hafellner &amp; Calat.: on <i>Xanthoparmelia</i></p>	<p>Calatayud &amp; Barreno 2003</p> <p>Calatayud &amp; Navarro-Rosinés 2000</p> <p>Calatayud et al. 2002</p> <p>Calatayud et al. 2004</p> <p>Fernández-Brime et al. 2010</p> <p>Hafellner 1982a</p> <p>Hafellner 1999</p> <p>Hafellner &amp; Calatayud 1999</p> <p>Halici &amp; Hawksworth 2007</p> <p>Halici et al. 2009</p>		

**dimelaenae** Calat. & Hafellner: on  
*Dimelaena oreina*  
**diploiciae** Calat., Nav.-Ros. & Hafellner: on  
*Diploicia subcanescens*  
**elongatum** Nav.-Ros. & Hafellner: on  
*Aspicilia* and *Lobothallia*  
**epipolinum** Nav.-Ros., Calat. & Hafellner:  
on *Diploctoma epipolium*  
**epirupestre** Pérez-Ortega & Calat.: on  
*Pertusaria pertusa*  
**episulphurella** Etayo & van den Boom: on  
*Lecanora sulphurella*  
**gracile** Calat., Nav.-Ros. & Hafellner: on  
*Acarospora fuscata*  
**hyalosporum** Kalb & Hafellner: on  
*Haematomma eremaeum*  
**iranicum** Brackel & Valadbeigi: on  
*Lobothallia praeradiosa*  
**lecanorae** Calat. & Nav.-Ros.: on *Lecanora*  
*farinacea*  
**maureri** Hafellner: on *Usnea* and other  
macrolichens  
**radicans** Calat. & Barreno: on *Aspicilia*  
**rouxii** Nav.-Ros., Calat. & Hafellner: on  
*Squamarina*  
**rugosum** G. Thor: on *Diploschistes*  
**rupicolae** Fern.-Brime & Nav.-Ros.: on  
*Pertusaria rupicola*  
**saxicola** Knudsen ...: on ...  
**semi-immersum** Hafellner: on *Buellia*  
**subradians** Hafellner, Calat. & Nav.-Ros.: on  
*Acarospora*  
**supertegentis** Ihlen & R. Sant.: on *Aspicilia*

Ihlen 2004  
Kalb et al. 1995  
Navarro-Rosinés & Hafellner  
1996  
Pérez-Ortega & Calatayud 2009  
Thor 1985  
van den Boom & Etayo 2006  
Valadbeigi & Brackel 2011  
Vondrák & Šoun 2007

	<p><i>supertegens</i></p> <p><b>svandae</b> Vondrák &amp; Šoun: on <i>Acarospora cervina</i></p> <p><b>triseptatum</b> Halıcı &amp; D. Hawksw.: on <i>Aspicilia</i></p> <p><b>verrucosum</b> Brackel &amp; Valadbeigi: on <i>Pleopsidium gobiense</i></p>			
<i>Lichenothelia</i>	<p><b>renobalesiana</b> D. Hawksw. &amp; V. Atienza: on endolithic Verrucariaceae (<i>Bagliettoa</i>, <i>Thelidium</i>, <i>Verrucaria</i>) over calcareous rocks</p> <p><b>spiralispora</b> Etayo [as '<i>spiratispora</i>']: on <i>Acarospora sphaerospora</i></p>	Atienza & Hawksworth 2008 Etayo 2010c		
Microthyriaceae				
<i>Lichenopeltella</i>	<p><b>arctomiae</b> Pérez-Ortega &amp; T. Sprib.: on <i>Arctomia delicatula</i></p> <p><b>biatorae</b> Pérez-Ortega &amp; T. Sprib.: on <i>Biatora flavopunctata</i></p> <p><b>bunodophoronis</b> Diederich: on <i>Bunodophoron</i></p> <p><b>cetrariicola</b> (Nyl.) R. Sant.: on <i>Cetraria</i> and <i>Cetrariella</i></p> <p><b>cladoniarum</b> E.S. Hansen &amp; Alstrup: on <i>Cladonia</i> subgen. <i>Cladina</i></p> <p><b>communis</b> Etayo: on <i>Hypotrachyna</i></p> <p><b>coppinsii</b> Earl.-Benn. &amp; D. Hawksw.: on <i>Verrucaria</i></p> <p><b>epiphylla</b> R. Sant.: on foliicolous <i>Mazosia</i> and <i>Porina</i></p> <p><b>heterodermiae</b> Diederich: on <i>Heterodermia</i></p> <p><b>heterodermiicola</b> M.S. Cole &amp; D. Hawksw.: on <i>Heterodermia</i></p> <p><b>hydrophila</b> R. Sant.: on <i>Verrucaria</i></p>	<p>Aptroot et al. 1997</p> <p>Cole &amp; Hawksworth 2002</p> <p>Earland-Bennett &amp; Hawksworth 1999b</p> <p>Etayo 2010b</p> <p>Etayo &amp; Diederich 1996b</p> <p>Etayo &amp; Sancho 2008</p> <p>Hansen &amp; Alstrup 1995</p> <p>Hariharan et al. 1996</p> <p>Matzer 1996</p> <p>Molitor &amp; Diederich 1997</p> <p>Pérez-Ortega &amp; Spribille 2009</p> <p>Santesson 1988</p> <p>Santesson 1989</p> <p>Santesson 1998</p> <p>Santesson 2001</p> <p>Zhurbenko 2010a</p>		

	<p><b>hypogymniae</b> Diederich: on <i>Hypogymnia zeylanica</i></p> <p><b>hypotrachynae</b> Diederich: on <i>Hypotrachyna</i></p> <p><b>leprosulae</b> Pérez-Ortega &amp; T. Sprib.: on <i>Myochroidea leprosula</i></p> <p><b>leptogii</b> Diederich: on <i>Leptogium</i></p> <p><b>lobariae</b> Etayo &amp; Diederich: on <i>Lobaria</i></p> <p><b>maculans</b> (Zopf) Höhn.: on <i>Umbilicaria</i></p> <p><b>megalosporae</b> Diederich: on <i>Megalospora</i></p> <p><b>microspora</b> Diederich: on <i>Parmeliella</i></p> <p><b>minuta</b> R. Sant.: on <i>Marchandiomphalina foliacea</i></p> <p><b>pannariacearum</b> Diederich: on Pannariaceae</p> <p><b>peltigericola</b> (D. Hawksw.) R. Sant.: on <i>Peltigera</i></p> <p><b>physciae</b> Diederich: on <i>Physcia</i></p> <p><b>pseudocyphellariae</b> Diederich: on <i>Pseudocyphellaria</i></p> <p><b>ramalinae</b> Etayo &amp; Diederich: on <i>Ramalina</i></p> <p><b>santessonii</b> (P.M. Kirk &amp; Spooner) R. Sant.: on <i>Peltigera</i></p> <p><b>sclerenchymatica</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>setifera</b> Matzer: on foliicolous <i>Bacidia</i></p> <p><b>stereocaulorum</b> Zhurb.: on <i>Stereoculon</i></p> <p><b>swaminathaniana</b> Harih., Mibey &amp; D. Hawksw.: on <i>Porina</i></p> <p><b>thamnoliae</b> R. Sant.: on <i>Thamnolia</i></p> <p><b>thelidii</b> Diederich: on <i>Thelidium</i></p>			
<i>Macrographa</i>	<b>antarctica</b> Etayo: on <i>Nephroma antarcticum</i>	Etayo & Sancho 2008		
Mycosphaerellaceae				

<i>Sphaerulina</i> s.l.	<i>dolichotera</i> (Nyl.) Vouaux: on Collemataceae [probably a synonym of <i>Merismatium decolorans</i> ] <b>dubiella</b> (Nyl.) W. Wats.: on crustose lichen <i>intermedia</i> Vouaux: on <i>Leptogium</i> [probably a synonym of <i>Merismatium decolorans</i> ] <b>lepidiotae</b> (Anzi) Vain.: on <i>Fuscopannaria praetermissa</i>	Clauzade et al. 1989		
Naetrocymbaceae				
<i>Leptorhaphis</i>	<b>haematommatus</b> Hafellner & Kalb: on <i>Haematomma</i>	Kalb et al. 1995		
Parmulariaceae				
<i>Hemigrapha</i>	<b>asteriscus</b> (Müll. Arg.) D. Hawksw.: on <i>Peltigera</i> <b>atlantica</b> Diederich & Wedin: on <i>Sticta canariensis</i> <b>nephromatis</b> Wedin & Diederich: on <i>Nephroma australe</i> <b>phaeospora</b> Matzer & Lücking: on foliicolous <i>Strigula phyllogena</i> <b>pilocarpacearum</b> M. Cáceres & Lücking: on <i>Byssoloma</i> and <i>Fellhanera</i> <b>pseudocyphellariae</b> Diederich & Wedin: on <i>Pseudocyphellaria argyracea</i> <b>strigulae</b> Matzer: on foliicolous <i>Strigula</i> <b>tenellula</b> (Müll. Arg.) Matzer: on foliicolous <i>Porina</i>	Cáceres & Lücking 2000 Diederich & Wedin 2000 Eriksson et al. 2001 Hawksworth 1975b Matzer 1996		
Pleomassariaceae				
<i>Lichenopyrenis</i>	<b>galligena</b> Calat., M. J. Sanz & Aptroot: on <i>Leptochidium albociliatum</i>	Calatayud et al. 2001b		
Pseudoperisporiaceae				
<i>Epibryon</i>	<b>conductrix</b> (Norman) Nik.Hoffm. &	Hoffmann & Hafellner 2000 Matzer 1996		

	<p>Hafellner [= <i>Stigmidium catapyrenii</i> Cl. Roux &amp; Triebel]: on <i>Catapyrenium cinereum</i> and <i>C. daedaleum</i></p> <p><b>lichenicola</b> Matzer: on <i>Mazosia parvipunctum</i> (Stein) Diederich: on <i>Thelidium solorinae</i> (Vain.) Nik. Hoffm. &amp; Hafellner: on <i>Solorina</i></p>	Sérusiaux et al. 1999		
<i>Neocoleroa</i>	<p><b>inundata</b> (Vain.) Diederich: on <i>Bacidina lichenicola</i> (Hansf.) M. E. Barr. subsp.</p> <p><b>lichenicola</b>: on a foliicolous lichen</p> <p><b>lichenicola</b> (Hansf.) M. E. Barr. subsp.</p> <p><b>bouteillei</b> (Bricaud, Cl. Roux &amp; Sérus.) Barr: on <i>Fellhanera bouteillei</i>, <i>Byssoloma</i> and possibly <i>Bacidina</i></p>	<p>Barr 1997</p> <p>Hawksworth 1980b</p> <p>Matzer 1996</p> <p>Roux et al. 1994</p> <p>Sérusiaux et al. 1999</p>		
Tubeufiaceae				
<i>Tubeufia</i>	<p><b>eriodermiae</b> Etayo: on <i>Erioderma heterodermiae</i> Etayo: on <i>Heterodermia</i> and <i>Physcia</i></p>	<p>Etayo 2002a</p> <p>Etayo 2002b</p>		
Incertae sedis				
<i>Ascohansfordiellopsis</i>	<p><b>deightonii</b> D. Hawksw.: on foliicolous lichens</p> <p><b>insectivora</b> (Hansf.) D. Hawksw.: on foliicolous lichens</p>	Hawksworth 1979a		
<i>Buelliella</i>	<p><b>colombiana</b> Etayo: on <i>Phlyctis andensis dirinariae</i> Diederich: on <i>Dirinaria picta eximia</i> Kalb &amp; Hafellner: on <i>Pyxine cocoes inops</i> (Triebel &amp; Rambold) Hafellner: on <i>Caloplaca heppiae</i> van den Boom: on <i>Heppia arenacea lecanorae</i> Suija &amp; Alstrup: on <i>Lecanora minimula</i> (Tuck.) Hafellner: on <i>Pertusaria physciicola</i> Poelt &amp; Hafellner: on</p>	<p>Aptroot et al. 1997</p> <p>Etayo 2002a</p> <p>Hafellner 1979</p> <p>Hafellner 1985b</p> <p>Hafellner et al. 2008</p> <p>Kalb 1990</p> <p>Pérez-Ortega &amp; Etayo 2010</p> <p>Suija &amp; Alstrup 2004</p> <p>van den Boom 2010</p>		

	<p><i>Phaeophyscia</i> and <i>Physcia</i>  <b>poetschii</b> Hafellner: on <i>Endocarpon</i>  <b>protoparmeliopseos</b> Etayo &amp; Pérez-Ortega: on <i>Lecanora</i> gr. <i>muralis</i>  <b>pusilla</b> Hafellner: on <i>Brigantiaea leucoxantha</i>  <b>trypethelii</b> (Tuck.) Hafellner: on <i>Trypethelium</i></p>			
<i>Cercidospora</i>	<p><b>alpina</b> Ihlen &amp; Wedin: on <i>Stereocaulon cumulatum</i>  <b>anomala</b> Etayo: on <i>Pertusaria pertusa</i>  <b>caudata</b> Kernst.: on <i>Caloplaca</i>  <b>ceccidiiformans</b> Grube &amp; Hafellner: on <i>Rhizocarpon</i>  <b>cephalodiorum</b> Triebel &amp; Grube: on <i>Pilophorus dovreensis</i>  <b>cladoniicola</b> Alstrup: on <i>Cladonia arbuscula</i>  <b>crozalsiana</b> (H. Olivier) Nav.-Ros., Cl. Roux &amp; Casares: on <i>Squamarina</i>  <b>decolorella</b> (Nyl.) O. Eriksson &amp; Yue: on terricolous algae, mosses and lichens  <b>epicallopisma</b> Arnold: on <i>Caloplaca aurantia</i>  <b>epicarphinea</b> (Nyl.) Grube &amp; Hafellner: on <i>Caloplaca</i> gr. <i>carphinea</i>  <b>epipolytropa</b> (Mudd) Arnold: on <i>Lecanora</i>  <b>exiguella</b> (Nyl.) Arnold: on <i>Rinodina mniaraea</i>  <b>galligena</b> Hafellner &amp; Nav.-Ros.: on <i>Aspicilia</i>  <b>lecidomae</b> Zhurb. &amp; Triebel: on <i>Lecidoma demissum</i>  <b>lobothalliae</b> Nav.-Ros. &amp; Calat.: on <i>Lobothallia</i>  <b>macrospora</b> (Uloth) Hafellner &amp; Nav.-Ros.:</p>	<p>Alstrup 1997  Alstrup et al. 1994  Clauzade et al. 1989  Etayo 2010a  Hafellner 1987b  Hafellner 1993  Hafellner &amp; Obermayer 1995  Ihlen 1995  Ihlen 1998  Ihlen &amp; Wedin 2007  Navarro-Rosinés et al. 1995  Navarro-Rosinés et al. 2004  Navarro-Rosinés et al. 2009  Triebel 1989  Triebel &amp; Scholz 2001  Zhurbenko 2010b  Zhurbenko &amp; Triebel 2003  Zhurbenko et al. 1995</p>		

	<p>on <i>Lecanora muralis</i></p> <p><b>melanophthalmae</b> Nav.-Ros., Calat. &amp; Hafellner, nom. nud.: on <i>Rhizoplaca melanophthalma</i></p> <p><b>mutabilicola</b> Calat. et al., nom. nud.: on <i>Megaspora verrucosa</i> var. <i>mutabilis</i></p> <p><b>ochrolechia</b> Zhurb.: on <i>Ochrolechia</i> and <i>Pertusaria coriaceae</i></p> <p><b>parva</b> Hafellner &amp; Ihlen: on <i>Baeomyces</i></p> <p><b>pluriseptata</b> (Nyl.) Arnold: on crustose saxicolous lichens</p> <p><b>punctillata</b> (Nyl.) R. Sant. [= <i>C. lichenicola</i> (Zopf) Hafellner]: on <i>Solorina</i> and <i>Peltigera</i></p> <p><b>solearispora</b> Calat., Nav.-Ros. &amp; Hafellner: on <i>Aspicilia</i></p> <p><b>soror</b> Obermayer &amp; Triebel: on <i>Arthrorhaphis citrinella</i></p> <p><b>stereocaulorum</b> (Arnold) Hafellner: on <i>Stereocaulon</i></p> <p><b>thamnoliicola</b> Ihlen: on <i>Thamnolia</i></p> <p><b>trypetheliza</b> (Nyl.) Hafellner &amp; Obermayer [= <i>C. arthrorhaphidicola</i> Alstrup]: on <i>Arthrorhaphis alpina</i></p> <p><b>verrucosaria</b> (Linds.) Arnold: on <i>Megaspora</i></p> <p><b>wernerii</b> Nav.-Ros., Calat. &amp; Hafellner: on <i>Aspicilia</i></p> <p><b>xanthoriae</b> (Wedd.) R. Sant.: on <i>Xanthoria</i></p>			
<i>Diederimyces</i>	<p><b>fuscideae</b> Etayo: on <i>Fuscidea cyathodes</i></p> <p><b>microsporus</b> Etayo: on <i>Pertusaria</i></p>	<p>Etayo 1995b</p> <p>Etayo &amp; Sancho 2008</p>		
<i>Echinothecium</i>	<p><b>aerophilum</b> Alstrup &amp; M. S. Cole: on <i>Alectoria</i></p> <p><b>cladoniae</b> Keissl.: on <i>Cladonia</i></p> <p><b>reticulatum</b> Zopf: on <i>Parmelia</i></p>	<p>Alstrup &amp; Cole 1998</p> <p>Clauzade et al. 1989</p> <p>Roux &amp; Triebel 1994</p>	<p><b>reticulatum</b>: Culture obtained by Crittenden et al. (1995)</p>	

<i>Karschia</i>	<b>alpicolae</b> D. Hawksw. & Alstrup: on <i>Allantoparmelia alpicola</i> <b>santessonii</b> Hafellner: on <i>Porpidia</i> <b>talcofila</b> (Flot.) Koerb.: on <i>Diploschistes</i>	Alstrup & Hawksworth 1990 Hafellner 1979 Santesson 1994a		
<i>Koordersiella</i>	<b>deightonii</b> (D. Hawksw.) D. Hawksw. & O. E. Erikss.: on foliicolous <i>Porina</i> and ?Gomphillaceae <b>insectivora</b> (Hansf.) D. Hawksw. & O. E. Erikss.: on foliicolous <i>Asterothyrium</i> <b>javanica</b> Höhn.: on Gomphillaceae	Eriksson & Hawksworth 1987 Hawksworth 1979a Matzer 1996		
<i>Lanatosphaera</i>	<b>dimerellae</b> Matzer: on foliicolous <i>Dimerella epiphylla</i> <b>porinicola</b> Matzer: on foliicolous <i>Porina epiphylla</i>	Matzer 1996		
<i>Myxophora</i>	<b>apotheciicola</b> Nik. Hoffm. & Hafellner: on <i>Leptogium azureum</i> <b>leptogiophila</b> (G. Winter) Nik. Hoffm. & Hafellner: on <i>Collema</i> and <i>Leptogium plicatile</i> <b>ovalispora</b> Nik. Hoffm. & Hafellner: on <i>Collema</i> <b>placynthii</b> Nik. Hoffm. & Hafellner: on <i>Placynthium caesium</i> <b>tetraspora</b> Nik. Hoffm. & Hafellner: on <i>Collema flaccidum</i>	Hoffmann & Hafellner 2000		
<i>Rosellinula</i>	<b>frustulosae</b> (Vouaux) R. Sant.: on <i>Lecanora frustulosa</i> and <i>L. argopholis</i> <b>haplospora</b> (Th. Fr.) R. Sant.: on <i>Aspicilia</i> and <i>Bellemerea</i> <b>kalbii</b> (Hafellner) Hafellner & R. W. Rogers: on <i>Haematomma puniceum</i> <b>lopadii</b> (Vouaux) D. J. Galloway: on <i>Brigantiaea</i>	Galloway 2004 Hafellner 1985a Hafellner 2004		

*Sphaerellothecium*

**abditum** Triebel: on *Immersaria* and *Lecidea*  
**araneosum** (Arnold) Zopf: on *Ochrolechia*,  
*Pertusaria* and *Varicellaria*  
**atryneae** (Arnold) Cl. Roux & Triebel: on  
*Lecanora bicincta*, *L. cenisia*, *L. rupicola*  
and *L. swartzii*  
**breussii** K. Knudsen, Kocourk. & Etayo: on  
*Placidium lacinulatum*  
**buelliae** (C.W. Dodge) D. Hawksw. & Iturr.:  
on *Buellia*  
**cinerascens** Etayo & Diederich: on *Cladonia*  
*parasitica*  
**cladoniae** (Alstrup & Zhurb.) Hafellner: on  
*Cladonia* subgen. *Cladonia* and  
*Stereocaulon*  
**cladoniicola** E. S. Hansen & Alstrup: on  
*Cladonia* subgen. *Cladina*  
**conioides** (Nyl.) Cl. Roux & Diederich: on  
*Baeomyces rufus*  
**contextum** Triebel: on *Calvitimela*,  
*Protoparmelia*, *Rhizocarpon*, *Rhizoplaca*  
and *Sporastatia*  
**episquamarinae** Etayo: on *Squamarina*  
*lentigera*  
**gallowayi** Diederich: on *Heterodermia*  
**giraltiae** van den Boom: on *Rinodina*  
**gowardii** Alstrup & M. S. Cole: on  
*Acarospora schleicheri*  
**icmadophilae** (R. Sant.) Zhurbenko: on  
*Icmadophila ericetorum*  
**minutum** Hafellner: on *Sphaerophorus*  
**pannariacearum** Etayo: on *Pannaria*  
**parietinarium** (Linds.) Hafellner & V. John:

Alstrup & Cole 1998  
Diederich 2007b  
Diederich & Zhurbenko 2009  
Etayo 2008  
Etayo & Diederich 1998  
Etayo & Sancho 2008  
Hafellner 1993  
Hansen & Alstrup 1995  
Hawksworth & Iturriaga 2006  
Knudsen et al. 2009  
Roux & Triebel 1994  
Triebel 1989  
Triebel et al. 1991  
van den Boom 2010  
Zhurbenko 2007b  
Zhurbenko 2008  
Zhurbenko & Alstrup 2004  
Zhurbenko & Triebel 2008

	<p>on <i>Xanthoria</i></p> <p><b>parmeliae</b> Diederich &amp; Etayo: on <i>Parmelia</i></p> <p><b>phaeorrhizae</b> Diederich &amp; Zhurb.: on <i>Phaeorrhiza sareptana</i></p> <p><b>propinquellum</b> (Nyl.) Cl. Roux &amp; Triebel: on <i>Lecanora carpinea</i> group</p> <p><b>soechtingii</b> Zhurb. &amp; Alstrup: on <i>Arthrorhaphis alpina</i></p> <p><b>stereocaulorum</b> Zhurb.: on <i>Stereocaulon</i></p> <p><b>subtile</b> Triebel &amp; Rambold: on <i>Teloschistes</i></p>			
<i>Trematosphaeria</i>	<b>lophiostoma</b> Choisy & Werner: on <i>Staurothele</i>	Clauzade et al. 1989		
<i>Trematosphaeriopsis</i>	<b>parmeliana</b> (Jacz.) Elenkin: on <i>Xanthoparmelia</i>	Hafellner 2001		
<i>Wernerella</i>	<b>acarosporae</b> Etayo: on <i>Acarospora nodulosa</i> <b>maheui</b> (Werner) Nav.-Ros., Cl. Roux & Giralto: on <i>Rinodina</i>	Etayo 2010c Navarro-Rosinés et al. 1996 Navarro-Rosinés et al. 1998d		

## Home

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <a href="#">culture collection links</a> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Arthoniales</b>				
Arthoniaceae				
<i>Arthonia</i> [incl. anam. <i>Helicobolomyces</i> and <i>Subhysteropycnis</i> ]	<b>abrothallina</b> Nyl.: on <i>Pseudocyphellaria</i> <b>almquistii</b> Vain.: on <i>Amygdalaria</i> , <i>Koerberiella</i> , <i>Porpidia</i> and <i>Trapelia</i> <b>amylospora</b> Almq.: on <i>Porpidia</i> and	Alstrup 1993a Alstrup & Cole 1998 Alstrup & Hansen 2001 Alstrup & Olech 1996 Aptroot et al. 1995		

<p><i>Farnoldia</i>  <b>anjutii</b> S. Y. Kondr. &amp; Alstrup: on  <i>Teloschistes velifer</i>  <b>apotheciorum</b> (A. Massal.) Almq.: on  <i>Lecanora albescens</i>  <b>arthoniicola</b> Diederich &amp; Aptroot: on  <i>Arthonia catenulata</i>  <b>aspiciliae</b> (Metzl.) S. Y. Kondr.: on <i>Aspicilia</i>  <b>atropunctata</b> Vain.: on sterile foliicolous cf.  <i>Echinoplaca</i>  <b>ayseniae</b> Halici &amp; Candan: on <i>Acarospora</i> [as  ‘aysenae’]  <b>badia</b> Wedin &amp; Hafellner: on  <i>Pseudocyphellaria granulata</i>  <b>biatoricola</b> Ihlen &amp; Owe-Larss.: on <i>Biatora</i>  <i>efflorescens</i>  <b>caerulescens</b> (Almw.) R. Sant.: on <i>Lecanora</i>  <i>varia</i>  <b>ceracea</b> Etayo &amp; Breuss: on <i>Peltigera</i>  <i>polydactylon</i> [a homonym of <i>Arthonia</i>  <i>ceracea</i> Fée]  <b>cinnabarinula</b> Müll. Arg.: on foliicolous  <i>Porina</i> and <i>Trichothelium</i> [anamorph:  <i>Helicobolomyces lichenicola</i> Matzer]  <b>circinata</b> Th. Fr.: on <i>Umbilicaria</i>  <b>clemens</b> (Tul.) Th. Fr.: on <i>Rhizoplaca</i>  <b>cohabitans</b> Coppins: on <i>Arthothelium</i>  <i>reagens</i>  <b>colombiana</b> Etayo: on <i>Cladonia</i>  <b>coriifoliae</b> Wedin &amp; Hafellner: on  <i>Pseudocyphellaria coriifolia</i>  <b>coronata</b> Etayo: on <i>Flavoparmelia caperata</i>  <b>cryptotheciae</b> Matzer &amp; R. Sant.: on</p>	<p>Aptroot et al. 1997  Calatayud et al. 1995  Calatayud et al. 2004  Candan &amp; Halici 2009  Diederich 1995  Ertz et al. 2005  Etayo 1993  Etayo 1996  Etayo 2002a  Etayo 2008  Etayo 2010b  Etayo 2010c  Etayo &amp; Breuss 1998  Etayo &amp; Diederich 2009  Etayo &amp; Sancho 2008  Follmann &amp; Werner 2003  Grube &amp; Matzer 1997  Grube et al. 1995  Halici 2008  Halici &amp; Candan 2009  Hawksworth 1991a  Hawksworth &amp; Iturriaga 2006  Hertel 1969  Horáková 1994  Ihlen et al. 2004  Kalb et al. 1995  Kantvilas &amp; Vězda 1992  Kärnefelt et al. 2002  Kondratyuk 1996a  Kondratyuk &amp; Zelenko 2002  Matzer 1996  Santesson 1993a  Santesson et al. 2004  Triebel et al. 1991  Wedin &amp; Kondratyuk 1997</p>		
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foliicolous *Cryptothecia candida*  
**darbishirei** Follmann & Werner: on *Roccella nigerrima*  
**destruens** Rabenh.: on *Physcia*  
**destruens** var. **nana** Grube & Hafellner: on *Xanthoria fallax*  
**digitatae** Hafellner: on *Cladonia digitata*  
**digitispora** Etayo: on *Sticta* [as '*digitispora*']  
**diploiciae** Calat. & Diederich: on *Diploicia canescens*  
**epicladonia** (Nyl.) Alstrup & Zhurb.: on *Cladonia*  
**epifarinoso** Etayo: on *Pannaria*  
**epimela** (Norman) I. M. Lamb: on *Buellia punctata*  
**epiphyscia** Nyl.: on *Physcia*  
**epitoninia** Halici & Candan: on *Toninia*  
**excentrica** Th. Fr.: on *Lepraria* and *Leprocaulon*  
**farinacea** (H. Olivier) R. Sant.: on *Ramalina farinacea*  
**flavicantis** Wedin & Hafellner: on *Pseudocyphellaria flavicans*  
**follmaniana** Diederich: on *Roccella*  
**fuscopurpurea** (Tul.) R. Sant.: on *Peltigera*  
**galactinaria** Leight.: on *Lecanora dispersa* group  
**garajonayi** Etayo: on *Porina*  
**gelidae** R. Sant.: on *Placopsis gelida*  
**glacialis** Alstrup & E. S. Hansen: on *Rhizoplaca melanophthalma*  
**glaucomaria** (Nyl.) Nyl.: on *Lecanora rupicola*

**graphidicola** Coppins: on *Graphis scripta*  
**haematommatum** Kalb & Hafellner: on  
*Haematomma*  
**haematostigma** Grube & Hafellner: on  
*Ramalina*  
**hawksworthii** Halici: on *Dimelaena*  
**hertelii** (Calat., Barreno & V. J. Rico)  
Hafellner & V. John: on *Aspicilia*  
*Mycopographa hymeniicola* Vain.: on  
*Lecanora* [a poorly known species]  
**ingaderiae** Follmann: on *Ingaderia*  
**insidiens** (Vouaux) Clauzade, Diederich & Cl.  
Roux (comb. inval.): on *Ramalina fraxinea*  
**intermedia** Matzer: on foliicolous  
*Phyllobiale* and *Porina*  
**intexta** Almq.: on *Lecidella*  
**invadens** Coppins: on *Schismatomma*  
**japewiae** Grube & Holien: on *Japewia*  
**lecanoricola** Alstrup & Olech: on *Lecanora*  
*populicola* [as '*lecanoriicola*']  
**lecanorina** (Almq.) R. Sant.: on *Lecanora*  
*albella*  
**lepidiota** (H. Olivier) R. Sant.: on  
*Fuscopannaria praetermissa*  
**lepidophila** (Anzi) Clauzade, Diederich & Cl.  
Roux (comb. inval.): on *Cladonia*  
**lethariicola** Alstrup & M. S. Cole: on  
*Letharia*  
**lobothalliae** Etayo: on *Lobothallia*  
*alphoplaca*  
**maculiformis** Wedin & Hafellner: on  
*Pseudocyphellaria glabra* and *P.*  
*homoeophylla*

**marginalis** Etayo: on *Pseudocyphellaria*  
**mazosiicola** Matzer & R. Sant.: on  
foliicolous *Mazosia*  
**microsticta** Vain.: on foliicolous cf.  
*Fellhanera bouteillei*; a species of doubtful  
application  
**minuta** Wedin & Hafellner: on  
*Pseudocyphellaria coriifolia*  
**molendoi** (Frauenf.) R. Sant.: on *Caloplaca*  
and *Xanthoria*  
**navasiana** Etayo: on *Lepraria*  
**neglectula** Nyl.: on a sterile, sorediate crust  
(*Lepraria neglecta?*)  
**nephromiaria** Nyl.: on *Nephroma*  
**nideri** (J. Steiner) Clauzade, Diederich & Cl.  
Roux: on *Caloplaca* gr. *variabilis*  
**obscurior** Triebel: on *Pilophorus dovrensis*  
**oligospora** Vězda: on *Lecanora crenulata*  
**pantherina** Etayo: on *Pertusaria pustulata*  
**parmeliae** (C. W. Dodge & G. E. Baker) D.  
Hawksw. & Iturr.: on *Physcia caesia*  
**peltigerea** Th. Fr.: on *Peltigera* and *Solorina*  
**peltigerina** (Almq.) H. Olivier: on *Peltigera*  
and *Solorina*  
**pelvetii** (Hepp) H. Olivier: on  
*Pseudocyphellaria aurata*  
**phaeophysciae** Grube & Matzer: on  
*Phaeophyscia*  
**plectocarpoides** (S. Y. Kondr. & D. J.  
Galloway) Wedin & S. Y. Kondr.: on  
*Pseudocyphellaria scabrosa*  
**polia** Etayo & R. Sant.: on *Diploicia canescens*  
**prominens** Follmann: on *Ingaderia*

*gracillima*

**protoparmeliae** Etayo: on *Protoparmelia badia*

**protoparmeliopseos** Etayo & Diederich: on *Lecanora muralis*

**pseudocyphellariae** Wedin: on *Pseudocyphellaria multifida*

**pseudopegraphina** Matzer: on foliicolous *Mazosia*

**punctella** Nyl.: on *Diplotomma*

**rimeliicola** Diederich: on *Parmotrema*

**rinodinicola** Candan & Halici: on *Rinodina oleae*

**rubescens** (Arnold) Clauzade, Diederich & Cl. Roux: on *Buellia epipolia*

**rufidula** (Hue) D. Hawksw., R. Sant. & Øvstedal: on *Umbilicaria*

**sagenedii** Vězda & Kantvilas: on *Sagenidium molle*

**sampaiana** (Diederich & Etayo) Ertz & Diederich: on *Fuscopannaria sampaiana*

**santessoniana** Wedin & Hafellner: on *Pseudocyphellaria scabrosa*

**santessonii** Matzer: on foliicolous *Porina*

**semi-immersa** Wedin & Hafellner: on *Pseudocyphellaria*

**sherparum** Grube & Matzer: on *Lecanora sherparum*

**squamarinae** Etayo: on *Squamarina lentigera*

**stereocaulina** (Ohlert) R. Sant.: on *Stereocaulon*

**stictaria** Nyl.: on *Pseudocyphellaria*

	<p><b>subaggregata</b> Wedin &amp; Hafellner: on <i>Pseudocyphellaria hirsuta</i></p> <p><b>subconveniensi</b> Nyl.: on <i>Lobaria</i></p> <p><b>subfuscicola</b> (Linds.) Triebel: on <i>Lecanora albella</i> and <i>L. carpinea</i></p> <p><b>subvelutinae</b> (Vain.) R. Sant.: on foliicolous <i>Sporopodium</i></p> <p><b>sytnikii</b> S. Y. Kondr.: on <i>Xanthoria</i></p> <p><b>tavaresii</b> Grube &amp; Hafellner: on <i>Anthracotheceum</i> and <i>Pyrenula</i></p> <p><b>tetraspora</b> S. Y. Kondr. &amp; Kärnefelt: on <i>Caloplaca chilensis</i></p> <p><b>thelotrematis</b> Coppins: on <i>Thelotrema</i></p> <p><b>tremelloides</b> Etayo: on <i>Heterodermia</i></p> <p><b>triebelsiae</b> Zhurb.: on <i>Dactylina</i></p> <p><b>urceolata</b> (Elenkin) Calat., Barreno &amp; V. J. Rico: on <i>Aspicilia</i></p> <p><b>varians</b> (Davies) Nyl.: on <i>Lecanora rupicola</i> and <i>L. helicopsis</i></p> <p><b>versoensis</b> Alstrup: on <i>Buellia punctata</i> [= <i>A. aggregata</i> Alstrup, M. S. Christ. &amp; Hafellner]</p> <p><b>xanthoparmeliarum</b> Etayo: on <i>Xanthoparmelia</i></p>			
'Lecanographaceae'				
<i>Lecanographa</i>	<p><b>imitans</b> Werner &amp; Follmann: on <i>Roccella humboldtiana</i></p> <p><b>occidentalis</b> Egea &amp; Torrente: on <i>Roccellina</i></p> <p><b>rinodinae</b> (Vězda) R. Sant.: on <i>Phaeorrhiza nimbose</i></p>	Egea & Torrente 1994 Follmann & Werner 2003		
Opegraphaceae				
<i>Opegrapha</i>	<b>agelaea</b> Fée: on pyrenocarpous lichen	Alstrup & Hawksworth 1990 Aptroot et al. 1997		

<p><b>anomea</b> Nyl.: on <i>Ochrolechia</i> and <i>Pertusaria</i>  <b>bacidiae</b> R. Sant.: on '<i>Bacidia</i>' <i>brasiliensis</i>  <b>blakii</b> Ertz &amp; Diederich: on cf. <i>Ochrolechia</i>  <b>brevis</b> Coppins: on <i>Thelotrema petractoides</i>  <b>brevissima</b> Kalb &amp; Hafellner: on  <i>Haematomma</i>  <b>brigantina</b> Hafellner: on <i>Brigantiaea</i>  <b>cladoniicola</b> Ertz &amp; Diederich: on <i>Cladonia</i>  <b>cryptotheciae</b> Matzer: on foliicolous  <i>Cryptothecia</i>  <b>diffRACTICOLA</b> R. C. Harris &amp; Ladd: on  <i>Bacidia diffracta</i>  <b>ectolechiacearum</b> Matzer &amp; R. Sant.: on  foliicolous <i>Calopadia</i>, <i>Loflammia</i> and  <i>Sporopodium</i>  <b>encephalographoidea</b> Diederich &amp;  Aptroot: on <i>Pyrenula</i>  <b>enterographae</b> Etayo &amp; R. Sant.: on  <i>Enterographa</i>  <b>epiporina</b> Matzer: on foliicolous <i>Phyllobiale</i>  and <i>Porina</i>  <b>foreaui</b> (Moreau) Hafellner &amp; R. Sant.: on  <i>Heterodermia</i>  <i>Leciographa furfuracea</i> (Anzi) Rehm: on  <i>Lecanora rupicola</i> and <i>Rhizocarpon</i> [a  poorly known species]  <b>geographicola</b> (Arnold) Hafellner: on  <i>Rhizocarpon</i>  <b>gregalis</b> Vain.: on pyrenocarpous lichen  <i>Leciographa gyrolophii</i> (A. Massal.)  Vouaux: on <i>Dictyonema</i> [a poorly known  species]  <b>hellespontica</b> Vondrák &amp; Kocourk.: on</p>	<p>Awasthi 1991  Clauzade et al. 1989  Coppins &amp; Kondratyuk 1998  Ertz 2009  Ertz &amp; Diederich 2003  Ertz et al. 2004  Ertz et al. 2005  Etayo 1996  Etayo 2007  Etayo 2010b  Etayo &amp; Aptroot 2006  Etayo &amp; Sancho 2008  Follmann &amp; Werner 2003  Hafellner 1985b  Hafellner 1994a  Hafellner 2007  Harris &amp; Ladd 2007  Isbrand &amp; Alstrup 1992  Kalb &amp; Elix 1995  Kalb et al. 1995  Kondratyuk &amp; Galloway 1995c  Kondratyuk &amp; Kudratov 2002  Lücking 1998  Matzer 1996  Navarro-Rosinés &amp; Hladun 1995  Orange 2002  Triebel 1989  Vondrák &amp; Kocourková 2008  Zhurbenko 2009b</p>
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*Caloplaca aurantia*

**insidens** (J. Steiner) S. Y. Kondr.: on

*Caloplaca* and *Verrucaria*

**invadens** Etayo: on *Pannaria farinosa*

**kalbii** Matzer: on foliicolous *Byssoloma*

**lamyi** (Nyl.) Triebel: on corticolous *Lecanora*

**lichenicola** Thor, Lücking & Tat. Matsumoto:  
on *Porina*

**maligna** Triebel: on *Lecidea fuscoatra*

**matzeri** Lücking: on foliicolous

*Amazonomyces sprucei*

**mazosiae** Matzer: on foliicolous *Mazosia*

**melanospila** Müll. Arg.: on *Parmotrema*

**Leciographa nephromatis** Stein: on  
*Nephroma*

**nigeriensis** C. W. Dodge: on *Thelotrema*

**parasitica** (A. Massal.) H. Olivier: on

*Aspicilia calcarea*

**perturbans** Follmann: on *Ingaderia*

*pulcherrima*

**pertusariicola** Coppins & P. James: on

*Pertusaria leioplaca*

**phaeophysciae** R. Sant., Diederich, Ertz &

Christnach: on *Phaeophyscia hispidula*

**phlyctidicola** (Vouaux) Etayo: on *Phlyctis*

**phyllobathelii** Matzer & R. Sant.: on  
foliicolous *Phyllobathelium*

**phylloporinae** Müll. Arg.: on foliicolous

*Porina*

**physcidiae** Kalb & Elix: on *Physcidia*

*australasica*

**pigozziana** Etayo & Aptroot: on *Thelotrema*

**plectocarpoidea** Diederich: on

*Phaeographis*

**porinicola** Matzer: on foliicolous *Phyllobiale*  
and *Porina*

**pulvinata** Rehm: on *Dermatocarpon*,  
possibly also on *Catapyrenium*, *Endocarpon*  
and *Staurothele*

**pulvinata** var. **placidiicola** Zhurb.: on  
*Placidium*

**reactiva** (Alstrup & D. Hawksw.) Etayo &  
Diederich: on *Hymenelia lacustris*

**reinkellae** Follmann: on *Roccella lirellina*

**romsae** S. Y. Kondr. & Kudratov: on  
*Staurothele areolata*

**rupestris** Pers.: on *Verrucaria* [incl. *O.*  
*centrifuga*]

aff. **rupestris 1** [Vondrák & Kocourková  
2008]: on *Caloplaca cirrochroa*

aff. **rupestris 2** [Vondrák & Kocourková  
2008]: on *Caloplaca variabilis*

**rotunda** Hafellner: on *Physconia distorta*

**rouxiana** Nav.-Ros. & Hladun: on *Polyblastia*  
*nidulans*

**sipmanii** Matzer: on foliicolous *Porina*

**sphaerophoricola** Isbrand & Alstrup: on  
*Sphaerophorus globosus*

**stereocaulicola** Alstrup & D. Hawksw.: on  
*Stereocaulon*

**stigmodes** Nyl.: on *Porina*

**strigulae** Matzer & R. Sant.: on foliicolous  
*Strigula*

**submaritima** Hafellner: on *Tephromela atra*

**tenuior** Stirt.: on *Thelotrema*

**thelotrematis** Coppins: on *Thelotrema*

	<i>lepadinum</i> and <i>T. macrosporum</i> <b>uniseptata</b> Matzer: on foliicolous <i>Strigula</i> <b>velata</b> (Müll. Arg.) Vain.: on foliicolous <i>Actinoplaca</i> , <i>Calenia</i> , ? <i>Echinoplaca</i> and <i>Gyalectidium</i> <b>vulpina</b> Vondrák, Kocourk. & Tretiach: on <i>Caloplaca erodens</i>			
<i>Paralecanographa</i>	<b>grumulosa</b> (Dufour) Egea & Torrente [incl. <i>L. hemisphaerica</i> (Laundon) Egea & Torrente]: on <i>Roccella</i> , rarely on <i>Dirina</i> , <i>Gorgadesia</i> or <i>Opegrapha</i>	Egea & Torrente 1994		
Roccellaceae				
<i>Enterographa</i>	<b>epiphylla</b> (Sérus.) Ertz, Diederich & Sparrius: on foliicolous <i>Coenogonium flavicans</i> <b>mazosiae</b> Matzer & R. Sant.: on foliicolous <i>Mazosia</i> <b>punctata</b> Ertz & Diederich: on <i>Lobaria</i>	Ertz et al. 2005 Matzer 1996		
<i>Schismatomma</i>	<b>physconiicola</b> Ertz & Diederich: on <i>Physconia</i>	Ertz & Diederich 2006		
<i>Sigridea</i>	<b>labyrinthica</b> (Follmann) Ertz & Diederich: on <i>Roccella portentosa</i>	Ertz et al. 2005		
Incertae sedis				
<i>Arthophacopsis</i>	<b>parmeliarum</b> Hafellner: on <i>Parmelia</i> s.s.	Hafellner 1998a		
<i>Mazosia</i>	<b>adelphoparasitica</b> Matzer: on foliicolous <i>Mazosia</i>	Matzer 1996		
<i>Paradoxomyces</i>	<b>nymanii</b> Matzer: on foliicolous <i>Strigula</i>	Matzer 1996		
<i>Perigrapha</i>	<b>nitida</b> Ertz, Diederich, Christnach & Wedin: on <i>Pseudocyphellaria glabra</i> <b>superveniens</b> (Nyl.) Hafellner: on <i>Parmelia</i> <i>sulcata</i>	Ertz et al. 2005 Hafellner 1996a		
<i>Phacographa</i>	<b>glaucomaria</b> (Nyl.) Hafellner: on <i>Lecanora</i> <i>rupicola</i> s.l. (incl. <i>L. bicincta</i> )	Hafellner 2009		

	<b>protoparmeliae</b> Hafellner: on <i>Protoparmelia badia</i> <b>zwackhii</b> (Zwackh) Hafellner: on <i>Phlyctis</i>			
<i>Phacothecium</i>	<b>varium</b> (Tul.) Trevis.: on <i>Xanthoria</i>	Hafellner 2009		
<i>Plectocarpon</i>	<b>arthonioides</b> Diederich: on <i>Lobaria isidiophora</i> <b>bunodophori</b> Wedin, Ertz & Diederich: on <i>Bunodophoron patagonicum</i> <b>cladoniae</b> R. Sant.: on <i>Cladonia</i> <b>concentricum</b> Ertz, Diederich & Wedin: on <i>Pseudocyphellaria homeophylla</i> <b>coppinsii</b> Ertz & Diederich: <i>Pseudocyphellaria crocata</i> <b>cristalliferum</b> Christnach, Ertz & Diederich: on <i>Sticta</i> <b>encausticum</b> (Nyl.) R. Sant.: on <i>Brodoa intestiniformis</i> <b>gallowayi</b> (S. Y. Kondr.) Ertz & Diederich: on <i>Pseudocyphellaria dissimilis</i> <b>gayanum</b> Etayo: on <i>Siphula</i> <b>hypogymniae</b> Zhurb. & Diederich: on <i>Hypogymnia bitteri</i> <b>lambinonii</b> Diederich & Etayo: on <i>Lobaria</i> and <i>Pseudocyphellaria anomala</i> <b>latisporum</b> Ertz, Diederich & Wedin: on <i>Pseudocyphellaria coriifolia</i> <b>leuckertii</b> (S. Y. Kondr. & D. J. Galloway) Ertz & Diederich: on <i>Pseudocyphellaria intricata</i> and <i>P. norvegica</i> <b>lichenum</b> (Sommerf.) D. Hawksw.: on <i>Lobaria pulmonaria</i> , <i>Pseudocyphellaria anomala</i> and <i>P. anthraspis</i> <b>linitae</b> (R. Sant.) Wedin & Hafellner: on	Aptroot et al. 1997 Cáceras et al. 2001 Diederich & Etayo 1994 Ertz & Diederich 2007 Ertz et al. 2003 Ertz et al. 2005 Etayo 2007 Etayo & Sancho 2008 Hawksworth & Galloway 1984 Santesson 1993a Santesson 1994a Scholz 1998 Wedin & Hafellner 1998 Zhurbenko et al. 2008		

*Lobaria linita*

**macaronesiae** Diederich, Etayo & Sérus.: on  
*Lobaria immixta* and *L. macaronesiae*

**melanohaleae** Christnach, Ertz & Diederich:  
on *Melanohalea ushuaiensis*

**nashii** Hafellner: on *Niebla robusta*

**nephromeum** (Norman) R. Sant.: on  
*Nephroma bellum*

**obtectum** Ertz & Diederich: on  
*Pseudocyphellaria encoensis*

**opegraphoideum** Christnach, Ertz,  
Diederich & Wedin: on *Pseudocyphellaria*  
*homeophylla* and *P. multifida*

**peltigerae** Zhurb., Ertz, Diederich & Miadl.:  
on *Peltigera leucophlebia*

**pseudocyphellariae** Diederich: on  
*Pseudocyphellaria gilva*

**pseudoleuckertii** Diederich, Ertz & Wedin:  
on *Pseudocyphellaria coriifolia*

**pseudosticta** Fée: on *Pseudocyphellaria*  
*freycinetii* and *P. glabra*

aff. **pseudosticta** Fée: on *Pseudocyphellaria*  
*intricata*

**scrobiculatae** Diederich & Etayo: on  
*Lobari(n)a scrobiculata*

**serusiauxii** Ertz & Diederich: on *Sticta*

**sticticola** Ertz, Wedin & Diederich: on *Sticta*

**tibellii** Ertz & Diederich: on  
*Pseudocyphellaria rubella*

**triebeliae** Diederich & Ertz: on *Lobaria*  
*quercizans*

**usneae** Diederich & Etayo: on *Usnea*  
*exasperata*

	<b>usneaustralis</b> Etayo: on <i>Usnea</i> <b>venustum</b> Ertz, Coppins & Diederich: on <i>Nephroma papillosum</i> <b>violaceum</b> Ertz, R. Sant., Diederich & Wedin: on <i>Nephroma antarcticum</i>			
<i>Trichophyma</i>	<b>bunchosiae</b> Rehm: on foliicolous <i>Strigula</i> <b>similis</b> Matzer: on foliicolous <i>Strigula</i>	Matzer 1996		

## Home

	Species (lichenicolous fungi in bold; lichenicolous lichens or facultative lichenicolous fungi in italics)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Chaetothyriales</b>				
Chaetothyriaceae				
<i>Biciliopsis</i>	<b>leptogiicola</b> Diederich: on <i>Leptogium</i>	Aptroot et al. 1997 Hoffmann & Hafellner 2000		
Herpotrichiellaceae				
<i>Capronia</i>	<b>andina</b> Etayo: on <i>Placopsis gelida</i> <b>baeomycetis</b> Diederich: on <i>Baeomyces</i> <b>epilobarina</b> S. Y. Kondr. & D. J. Galloway: on <i>Lobaria</i> <b>guatemalensis</b> Etayo: on <i>Parmotrema</i> [as ' <i>guatamalense</i> '] <b>hypotrachynae</b> Etayo & Diederich: on <i>Hypotrachyna</i> <b>leopoldiana</b> Etayo: on <i>Leptogium</i> <b>leptogii</b> Etayo & Diederich: on <i>Leptogium</i> <b>magellanica</b> Etayo: on <i>Fuscopannaria</i>	Aptroot et al. 1997 Etayo 2002a Etayo 2003 Etayo 2010b Etayo & Diederich 1998 Etayo & Sancho 2008 Etayo & van den Boom 2006 Halici et al. 2010 Hawksworth 1980b Hawksworth 1990a Kondratyuk & Galloway 1995a	<b>peltigerae</b> : ...	<b>peltigerae</b> : ...

	<p><b>minutosetosae</b> Halici, D. Hawksw., A. O. Türk &amp; Candan: on <i>Thelenella muscorum</i></p> <p><b>normandinae</b> R. Sant. &amp; D. Hawksw.: on <i>Normandina pulchella</i></p> <p><b>peltigerae</b> (Fuckel) D. Hawksw.: on <i>Peltigera</i></p> <p><b>pseudonormandinae</b> Diederich: on <i>Normandina simodensis</i></p> <p><b>santessonii</b> Etayo: on <i>Dictyonema</i></p>			
<b>Pyrenulales</b>				
Requienellaceae				
<i>Distopyrenis</i>	<b>japonica</b> Harada: on <i>Graphis proserpens</i>	Harada 2000		
<i>Lacrymospora</i>	<b>parasitica</b> Aptroot: probably lichenicolous on a sterile corticolous lichen (? <i>Myriothrenia</i> )	Aptroot 1991		
<i>Parapyrenis</i>	<b>lichenicola</b> Aptroot & Diederich: on ? <i>Pertusaria</i>	Aptroot et al. 1997		
<b>Verrucariales</b>				
Adelococcaceae				
<i>Adelococcus</i>	<p><b>alpestris</b> (Zopf) Theiss. &amp; Syd.: on <i>Acarospora glaucocarpa</i> and <i>A. macrospora</i></p> <p><b>dissimilis</b> (Triebel) .: on <i>Paraporpidia leptocarpa</i></p> <p><b>immersus</b> Etayo &amp; Breuss: on <i>Dermatocarpon biennense</i></p> <p><b>interlatens</b> (Arnold) Matzer &amp; Hafellner: on <i>Clauzadea immersa</i>, <i>Hymenelia prevostii</i> and <i>Sarcogyne regularis</i></p> <p><b>porocyphii</b> S. Zelanko &amp; S. Y. Kondr.: on <i>Porocyphus</i></p>	<p>Etayo &amp; Breuss 1998</p> <p>Kondratyuk &amp; Zelenko 2002</p> <p>Matzer &amp; Hafellner 1990</p>		
<i>Pseudopyrenidium</i>	<b>tartaricola</b> (Linds.) Alstrup & D. Hawksw.: on <i>Ochrolechia</i>	Alstrup & Hawksworth 1990 Navarro-Rosinés et a. 2010		
<i>Sagediopsis</i>	<b>aquatica</b> (Stein) Triebel: on <i>Koerberiella wimmeriana</i>	Alstrup & Hawksworth 1990 Hafellner 1993 Hoffmann & Hafellner 2000		

	<p><b>aspiciliae</b> Nik. Hoffm. &amp; Hafellner: on <i>Aspicilia myrinii</i></p> <p><b>barbara</b> (Th. Fr.) R. Sant. &amp; Triebel: on <i>Porpidia glaucophaea</i></p> <p><b>campsteriana</b> (Linds.) D. Hawksw. &amp; R. Sant.: on <i>Ochrolechia</i></p> <p><b>fissurisedens</b> Hafellner: on <i>Aspicilia myrinii</i></p> <p><b>lomnitzensis</b> (Stein) Orange: on <i>Ionaspis lacustris</i> and <i>I. odora</i></p> <p><b>pertusariicola</b> Zhurb.: on <i>Pertusaria</i></p>	<p>Orange 2002</p> <p>Triebel 1989</p> <p>Triebel 1993</p> <p>Zhurbenko 2009c</p>		
Sarcopyreniaceae				
<i>Sarcopyrenia</i>	<p><b>acutispora</b> Nav.-Ros. &amp; Cl. Roux: on cf. <i>Bagliettoa calciseda</i></p> <p><b>bacillosa</b> (Nyl.) Nav.-Ros. &amp; Hladun: on saxicolous lichens</p> <p><b>bacillospora</b> Nav.-Ros. &amp; Hladun: on <i>Thelidium</i> and <i>Verrucaria</i></p> <p><b>baetica</b> Nav.-Ros. &amp; Hladun: on <i>Lecania</i> cf. <i>erysibe</i></p> <p><b>beckhausiana</b> (J. Lahm) M. B. Aguirre, Nav.-Ros. &amp; Hladun: on saxicolous lichens, mainly Verrucariaceae</p> <p><b>cylindrospora</b> (P. Crouan &amp; H. Crouan) M. B. Aguirre: mainly on <i>Aspicilia</i></p> <p><b>gibba</b> Nyl.: on saxicolous lichens, incl. <i>Acarospora</i> and <i>Aspicilia</i></p> <p><b>gibba</b> var. <b>geisleri</b> (Beckh.) Nav.-Ros. &amp; Hladun: on saxicolous lichens</p> <p><b>lichinellae</b> Nav.-Ros. &amp; Hladun: on <i>Lichinella stipatula</i></p> <p><b>plurisepta</b> Nav.-Ros. &amp; Cl. Roux: on <i>Caloplaca variabilis</i></p> <p><b>sigmoideospora</b> Tretiach &amp; Nav.-Ros.: on</p>	<p>Knudsen &amp; Lendemer 2006</p> <p>Navarro-Rosinés &amp; Hladun 1990</p> <p>Navarro-Rosinés &amp; Hladun 2004</p> <p>Navarro-Rosinés et al. 1998b</p> <p>Navarro-Rosinés et al. 2009</p> <p>Tretiach &amp; Navarro-Rosinés 1996</p>		

	<i>Bagliettoa</i>			
Verrucariaceae				
<i>Bellemerella</i>	<b>acarosporae</b> Calat. & Nav.-Ros.: on <i>Acarospora fuscata</i> <b>polysporinae</b> Calat. & Nav.-Ros.: on <i>Polysporina simplex</i> <b>ritae</b> Pérez-Ortega & T. Sprib.: on <i>Xylographa trapeliae</i> <b>trapeliae</b> Nav.-Ros. & Cl. Roux: on <i>Trapelia</i>	Calatayud & Navarro-Rosinés 2001 Navarro-Rosinés & Roux, 1997a Pérez-Ortega & Spribille 2007		
<i>Clauzadella</i>	<b>gordensis</b> Nav.-Rox. & Cl. Roux: on <i>Verrucaria viridula</i>	Navarro-Rosinés & Roux 1996		
<i>Endococcus</i>	<b>alectoriae</b> D. Hawksw.: on <i>Alectoria</i> <b>apiciicola</b> (J. Steiner) R. Sant.: on <i>Usnea</i> <b>brachysporus</b> (Zopf) M. Brand & Diederich: on <i>Porpidia</i> <b>buelliae</b> (C. W. Dodge) Matzer: on <i>Dimelaena radiata</i> <b>Microthelia calcaricola</b> Mudd: on <i>Aspicilia</i> <b>caudisporus</b> J. C. David & Etayo: on <i>Collema auriforme</i> <b>complanatae</b> Arnold: on <i>Miriquidica</i> <b>exerrans</b> Nyl.: on <i>Rhizocarpon</i> <b>Verrucaria fumosaria</b> Leight.: on <i>Lecidea fuscoatra</i> <b>fusiger</b> Th. Fr. & Almq.: on <i>Rhizocarpon</i> <b>incrassatus</b> Etayo & Breuss: on <i>Placidiopsis</i> <b>karlstadtensis</b> Kocourk. & Brackel: on <i>Endocarpon</i> <b>Verrucaria larbalestieri</b> Leight.: on ... <b>Tichothecium latzelii</b> Keissl.: on <i>Collema macrosporus</i> (Arnold) Nyl.: on <i>Rhizocarpon matzeri</i> D. Hawksw. & Iturr.: on <i>Buellia</i>	Alstrup 1993b Alstrup 1996 Alstrup et al. 1994 Brackel & Kocourková 2006 David & Etayo 1995 Etayo 2002a Etayo 2010b Etayo & Breuss 2001 Etayo & Sancho 2008 Hafellner 1994a Hafellner et al. 2002 Hafellner et al. 2008 Halici et al. 2007 Hawksworth 1979b Hawksworth 1982a Hawksworth & Iturriaga 2006 Kocourková & Knudsen 2011 Matzer 1993 Santesson 1994b Sérusiaux et al. 1999 Triebel 1989	<b>rugulosus</b> : Culture obtained by Crittenden et al. (1995)	<b>fusigera</b> (Orange 17098): nrSSU+ITS+LSU: <a href="#">FJ645262</a>

*musvicola*

**nanellus** Ohlert: on *Stereocaulon*  
**oreinae** Hafellner: on *Dimelaena oreina*  
**oropogonicola** Etayo: on *Oropogon*  
**pallidosporus** Etayo: on *Pseudocyphellaria*  
**parentium** Etayo: on *Pseudocyphellaria*  
**parmeliarum** Etayo: on *Parmelia saxatilis*  
**pellax** Nyl.: on *Collema*  
**perminutus** Vain.: on *Bacidia subincompta*  
[see Mycobank 511817]  
**perpusillus** Nyl.: on *Schaereria*  
**propinquus** (Körb.) D. Hawksw.: on  
*Porpidia*  
**protoblasteniae** Diederich: on  
*Protoblastenia*  
**pseudocarpus** Nyl.: on *Collema* (and  
*Heppia?*)  
**pseudocyphellariae** Etayo: on  
*Pseudocyphellaria*  
**ramalinarius** (Lindsay) D. Hawksw.: on  
*Ramalina*  
**rugulosus** (Leight.) Nyl.: on *Verrucaria*  
**sendtneri** (Arnold) Hafellner: on *Polyblastia*  
*sendtneri*  
**stigma** (Körb.) Stizenb.: on *Acarospora*  
**thalamita** Cromb.: on ... [see Mycobank  
510838]  
**thamnohae** Etayo & R. Sant.: on *Thamnohae*  
**thelommatis** Kocourk. & K. Knudsen: on  
*Thelomma santessonii*  
**tricolorans** Alstrup: on *Platismatia glauca*  
**variabilis** Halici, Kocourk. & Diederich: on  
*Staurothele*

	<p><b>verrucisporus</b> Alstrup: on <i>Ionaspis lacustris</i>  <b>verrucosus</b> Hafellner: on <i>Aspicilia</i>  <b>zahlbrucknerella</b> (Henssen) D. Hawksw.: on <i>Zahlbrucknerella</i></p>			
<i>Haleomyces</i>	<p><b>oropogonicola</b> D. Hawksw. &amp; Essl.: on <i>Oropogon lopezii</i></p>	Hawksworth & Esslinger 1993		
<i>Heteroplacidium</i>	<p><b>fusculum</b> (Nyl.) Gueidan &amp; Cl. Roux: lichen, juvenile parasite on <i>Aspicilia calcarea</i></p>	Breuss 1994		
<i>Halospora</i>	<p><b>deminuta</b> (Arnold) Tomas. &amp; Cif.: on <i>Polyblastia</i>, <i>Staurothele</i>, <i>Thelidium</i> and <i>Verrucaria</i>, etc.  <b>discrepans</b> (Arnold) Hafellner: mainly on <i>Protoblastenia</i>, also on <i>Aspicilia</i>, <i>Hymenelia</i>, <i>Verrucaria</i>, etc.  <b>longispora</b> (Cl. Roux &amp; Nav.-Ros.) Hafellner: on endolithic lichens  <b>scammoeca</b> (Lettau) Hafellner: on <i>Polyblastia</i>, <i>Thelidium</i> and <i>Verrucaria</i></p>	Hafellner 2011 Roux et al. 2002 Triebel 1989		
<i>Muellerella</i>	<p><b>antarctica</b> Etayo: on <i>Hypogymnia antarctica</i>  <b>erratica</b> (A. Massal.) Hafellner &amp; V. John: on diverse lichens  <b>hospitans</b> Stizenb.: on <i>Bacidia rubella</i>  <b>lecanactidis</b> Diederich &amp; van den Boom: on <i>Sigridea californica</i>  <b>lichenicola</b> (Sommerf.) D. Hawksw.: on diverse lichens  <b>polyspora</b> Müll. Arg.: on diverse lichens  <b>pygmaea</b> (Körb.) D. Hawksw.: on on diverse lichens  <b>stictinae</b> (H. Olivier) Vouaux: on <i>Sticta</i>  <b>triseptata</b> Diederich: on <i>Buellia griseovirens</i> and other lichens  <b>ventosicola</b> (Mudd) D. Hawksw.: on</p>	Clauzade et al. 1989 Diederich 1986 Diederich 2003 Etayo & Sancho 2008 Hawksworth 1985 Triebel 1989	<b>pygmaea</b> : Culture obtained by Crittenden et al. (1995)	

	<i>Ophioparma</i> , possibly also on <i>Rhizocarpon vesicularia</i> (Linds.) D. Hawksw.: on <i>Toninia</i>		
<i>Norrlinia</i>	<b>medoborensis</b> S. Y. Kondr.: on <i>Peltigera peltigericola</i> (Nyl.) Theiss. & Syd.: on <i>Peltigera</i> and <i>Marchandiomphalina foliaceae</i>	Hawksworth 1980b Kondratyuk & Galloway 1995a	<b>peltigericola</b> (Palice 4369): nr LSU: AY300845; mtLSU: AY779307; nrSSU: AY779280; mtSSU: AY300896
<i>Phaeospora</i>	<b>arctica</b> Horáková & Alstrup: on <i>Allocetraria</i> , <i>Arctocetraria</i> and <i>Arctoparmelia</i> <b>catolechiaie</b> Zopf: on <i>Catolechia wahlenbergii</i> <b>dermatocarponis</b> (R. G. Werner) S. Y. Kondr. [nom. inval.?]: on <i>Dermatocarpon</i> [probably not a <i>Phaeospora</i> ] <b>exoriens</b> (Stirt.) A. L. Sm.: on <i>Pannaria fritzei</i> Stein: on <i>Parmelia</i> [possibly a synonym of <i>Homostegia piggotii</i> ] <b>lecanorae</b> Eitner: on <i>Lecanora</i> <b>parasitica</b> (Lönnr.) Arnold: on <i>Rhizocarpon</i> [and <i>Lopadium?</i> ] <b>peltigericola</b> D. Hawksw.: on <i>Peltigera</i> and <i>Pseudocyphellaria</i> [and <i>Lobaria?</i> ] <b>perrugosaria</b> (Linds.) D. J. Galloway: on <i>Placopsis</i> <b>protoblasteniaie</b> Alstrup & Olech: on <i>Protoblastenia incrustans</i> <b>rimosicola</b> (Mudd) Stein: on <i>Rhizocarpon</i> [also reported on <i>Aspicilia</i> and <i>Diplotomma</i> ] <b>squamarinae</b> Etayo: on <i>Squamarina cartilaginea</i> <b>subantarctica</b> Øvstedal & D. Hawksw.: on <i>Lecania gerlachei</i> <b>verrucariae</b> Alstrup & E. S. Hansen: on <i>Verrucaria placynthiae</i>	Alstrup & Hansen 2001 Alstrup & Olech 1996 Etayo 2010c Galloway 2004 Hawksworth 1980b Hawksworth 1983 Horáková & Alstrup 1994 Kondratyuk & Zelenko 2002 Øvstedal & Hawksworth 1986 Sérusiaux et al. 1999	

<i>Placocarpus</i>	<p><i>americanus</i> K. Knudsen, Breuss &amp; Kocourk.: lichen, juvenile parasite on <i>Lecanora muralis</i></p> <p><i>melanophthalmosus</i> Cl. Roux &amp; Gueidan: lichen, juvenile parasite on <i>Rhizoplaca melanophthalma</i></p> <p><i>schaereri</i> (Fr.) Breuss: lichen, juvenile often parasite on <i>Lecanora muralis</i></p>	<p>Breuss 1985 Knudsen et al. 2009 Roux &amp; Gueidan 2011</p>		
<i>Placopyrenium</i>	<p><i>breussii</i> Cl. Roux &amp; Gueidan: lichen, juvenile parasite on <i>Aspicilia calcitraba</i></p> <p><i>canellum</i> Nyl.: lichen, juvenile parasite on <i>Aspicilia</i></p> <p><i>cinereoatrum</i> (Degel.) Orange: facultatively lichenicolous on <i>Staurothele fissa</i></p> <p><i>formosum</i> Orange: lichen, juvenile parasite on <i>Aspicilia aquatica</i></p> <p><i>fuscellum</i> (Turner) Gueidan &amp; Cl. Roux: lichen, juvenile facultative parasite on <i>Bagliettoa</i> and <i>Verrucaria</i></p> <p><i>noxium</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i></p>	<p>Breuss 1998 Breuss 2009 Orange 2004 Orange 2009 Roux &amp; Gueidan 2011</p>		
<i>Teloggalla</i>	<p><b>olivieri</b> (Vouaux) Nik. Hoffm. &amp; Hafellner: on <i>Xanthoria</i></p> <p><b>physciicola</b> Ihlen &amp; R. Sant.: on <i>Physcia dubia</i></p>	<p>Hoffmann &amp; Hafellner 2000 Ihlen &amp; Wedin 2005</p>		
<i>Verrucaria</i>	<p><i>cetera</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i></p> <p><b>conturmatula</b> Nyl.: on <i>Ionaspis lacustris</i></p> <p><i>inficiens</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i> and <i>S. elenkinii</i></p> <p><i>placynthiae</i> Alstrup &amp; E. S. Hansen: lichenicolous lichen on <i>Placynthium nigrum</i></p>	<p>Alstrup &amp; Hansen 2001 Breuss 1998</p> <p>Orange 2002</p>		
<i>Verrucula</i>	<p><i>aegyptiaca</i> (Müll. Arg.) J. Steiner:</p>	<p>Hoffman &amp; Hafellner 2000 Navarro-Rosinés et al. 2007</p>		

<p>lichenicolous lichen on <i>Caloplaca</i> gr. <i>velana</i>  <i>ahlesiana</i> (Zwackh) J. Steiner: lichen,  probably lichenicolous  <i>arnoldaria</i> Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca arnoldii</i>  <i>biatorinaria</i> (Zehetl.) Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca biatorina</i>  <i>clauzadaria</i> Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca</i>  <i>clauzadeana</i>  <i>coccinearia</i> (Zehetl.) Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca coccinea</i>  <i>coronataria</i> Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca coronata</i>  <i>elegantaria</i> (Zehetl.) Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Xanthoria elegans</i>  <i>fulvaria</i> Nav.-Ros. &amp; Cl. Roux ad int.:  lichenicolous lichen on <i>Caloplaca proteus</i>  <i>granulosaria</i> (Clauz. &amp; Zehetl.) Nav.-Ros. &amp;  Cl. Roux: lichenicolous lichen on <i>Caloplaca</i>  <i>granulosa</i>  <i>helvetica</i> (B. de Lesd.) Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca</i>  <i>cirrochroa</i>  <i>hladuniana</i> (Nav.-Ros. &amp; Cl. Roux) Nav.-  Ros. &amp; Cl. Roux: lichenicolous lichen on  <i>Caloplaca marina</i>  <i>inconnexaria</i> Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca inconnexa</i>  <i>lactearia</i> Nav.-Ros. &amp; Cl. Roux: lichenicolous  lichen on <i>Caloplaca lactea</i> s.str.  <i>latericola</i> (Erichs.) Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca pusilla</i>  <i>maritimaria</i> Nav.-Ros. &amp; Cl. Roux:</p>	<p>Zehetleitner 1978</p>		
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	<p>lichenicolous lichen on <i>Caloplaca maritima</i>  <i>microspora</i> Nav.-Ros. &amp; Cl. Roux ad int.:  lichenicolous lichen on <i>Caloplaca dolomiticola</i>  <i>navasaria</i> Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca navasiana</i>  <i>polycarparia</i> Nav.-Ros. &amp; Cl. Roux.:  lichenicolous lichen on <i>Caloplaca polycarpa</i>  <i>protearia</i> (Zehetl.) Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca proteus</i>  <i>pusillaria</i> Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca pusilla</i>  <i>tarraconensis</i> Nav.-Ros. &amp; Cl. Roux:  lichenicolous lichen on <i>Caloplaca</i> gr. <i>velana</i></p>			
<i>Verruculopsis</i>	<p><i>flavescentaria</i> Gueidan, Nav.-Ros. &amp; Cl. Roux: lichenicolous lichen on <i>Caloplaca flavescens</i>  <i>irrubescentis</i> (Ménard &amp; Cl. Roux) Gueidan, Nav.-Ros. &amp; Cl. Roux: lichenicolous lichen on <i>Caloplaca irrubescens</i>  <i>poeltiana</i> (Clauz. &amp; Cl. Roux) Gueidan, Nav.-Ros. &amp; Cl. Roux: lichenicolous lichen on <i>Caloplaca aurantia</i></p>	<p>Ménard &amp; Roux 1991  Navarro-Rosinés et al. 2007</p>		
Incertae sedis				
<i>Gemmaspora</i>	<p><b>lecanorae</b> (Werner) D. Hawksw. &amp; Halici: on <i>Aspicilia</i></p>	<p>Hawksworth &amp; Halici 2007</p>		
<i>Merismatium</i>	<p><b>cladoniicola</b> Alstrup: on <i>Cladonia ciliata</i>  <b>coccisporum</b> (Norm.) Vouaux: on <i>Amygdalaria</i>, <i>Euopsis</i>, etc.  <b>coccotremicola</b> Etayo: on <i>Coccotrema</i>  <b>corae</b> (Pat.) Etayo &amp; R. Sant.: on <i>Dictyonema</i>  <b>decolorans</b> (Arnold) Triebel: on <i>Lopadium</i>, <i>Bilimbia</i>, <i>Placynthiella</i>, <i>Trapeliopsis</i>, etc.</p>	<p>Alstrup 1997  Alstrup &amp; Hansen 2001  Etayo 2010b  Etayo &amp; Sancho 2008  Hafellner 2011  Hertel &amp; Rambold 1990  Triebel 1989</p>		

	<p><b>heterophractum</b> (Nyl.) Vouaux: on <i>Biatora</i>, <i>Bilimbia</i>, <i>Lopadium</i>, etc.</p> <p><b>nigritellum</b> (Nyl.) Vouaux: on <i>Catapyrenium</i>, <i>Leptogium</i>, <i>Lichenomphalia</i>, <i>Lopadium</i>, <i>Micarea</i>, <i>Mycobilimbia</i>, <i>Ochrolechia</i>, <i>Protoblastenia</i>, etc.</p> <p><b>peregrinum</b> (Flot.) Triebel: on <i>Rimularia</i></p> <p><b>thamnoliicola</b> Alstrup &amp; E. S. Hansen: on <i>Thamnolia vermicularis</i></p>			
<i>Pseudostigmidium</i>	<p><b>biseptatum</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>confusum</b> Etayo; on <i>Pseudocyphellaria</i></p> <p><b>disparatum</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>fumosum</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>nephromiarium</b> (Lindsay) Etayo: on <i>Nephroma antarcticum</i></p>	Etayo & Sancho 2008		
<i>Stigmidium</i>	<p><b>acetabuli</b> Calat. &amp; Triebel: on <i>Pleurosticta acetabulum</i></p> <p><b>aggregatum</b> (Mudd) D. Hawksw.: on <i>Aspicilia</i></p> <p><b>alectoriae</b> (Lindsay) Etayo: on <i>Usnea</i></p> <p><b>allogenum</b> (Nyl.) D. Hawksw.: on <i>Rhizocarpon</i></p> <p><b>arthoniae</b> (Arnold) Hafellner: on <i>Arthonia</i></p> <p><b>arthrorhaphidis</b> Hafellner &amp; Obermayer: on <i>Arthrorhaphis citrinella</i></p> <p><b>bellemerei</b> Cl. Roux &amp; Nav.-Ros.: on <i>Lecania</i></p> <p><b>beringicum</b> Zhurb. &amp; Triebel: on <i>Stereocaulon</i></p> <p><b>californicum</b> K. Knudsen &amp; Kocourk.: on <i>Caloplaca stanfordensis</i></p> <p><b>calopadiae</b> Matzer: on foliicolous <i>Calopadia</i></p> <p><b>cartilagineae</b> Calat. &amp; Triebel: on</p>	<p>Alstrup 1993a</p> <p>Alstrup &amp; Hawksworth 1990</p> <p>Alstrup &amp; Olech 1996</p> <p>Calatayud &amp; Triebel 1999</p> <p>Calatayud &amp; Triebel 2001</p> <p>Clauzade et al. 1989</p> <p>Etayo 1994</p> <p>Etayo 2000</p> <p>Etayo 2002a</p> <p>Etayo 2010c</p> <p>Etayo &amp; Sancho 2008</p> <p>Hafellner 1982c</p> <p>Hafellner 1994a</p> <p>Hafellner 1994b</p> <p>Hafellner &amp; Obermayer 1995</p> <p>Hafellner et al. 2008</p> <p>Hawksworth 1975b</p> <p>Kocourková &amp; Knudsen 2010</p> <p>Matzer 1996</p> <p>Matzer &amp; Hafellner 1990</p> <p>Molitor &amp; Diederich 1997</p> <p>Pérez-Ortega et al. 2010</p>		

*Squamarina*

**cerinae** Cl. Roux & Triebel: on *Caloplaca stillicidiorum*

**cladoniicola** Zhurb. & Diederich: on *Cladonia*

**clauzadei** Cl. Roux & Nav.-Ros.: on *Verrucaria nigrescens* and *V. viridula*

**collematis** Cl. Roux & Triebel: on *Collema*

**congestum** (Körb.) Triebel: on apothecia of *Lecanora* gr. *chlarotera*

**conspurcans** (Th. Fr.) Triebel & R. Sant.: on *Psora rubiformis*

**croceae** (Arnold) Cl. Roux & Triebel: on *Solorina*

**cupulare** (Pat.) D. Hawksw.: on *Sticta*

**degelii** R. Sant.: on *Degelia*

**disconephromeum** Etayo: on *Nephroma antarcticum*

**ephebes** (Henssen) D. Hawksw.: on *Ephebe*

**epiphyllum** Matzer: on foliicolous *Actinoplaca* and *Echinoplaca*

**epiramalina** (Vouaux) Hafellner: on *Ramalina*

**epistigmellum** (Vouaux) Kocourk. & K. Knudsen: on marine *Caloplaca*

**epixanthum** Hafellner: on *Acarospora*

**eucline** (Nyl.) Vězda: on *Pertusaria*

**exasperatum** Etayo: on *Melanohalea exasperata*

**frigidum** (Sacc.) Alstrup & D. Hawksw.: on *Thamnotia*

**fuscatae** (Arnold) R. Sant.: on *Acarospora fuscata*

Roux & Navarro-Rosinés 1994

Roux & Triebel 1994

Roux et al. 1995

Santesson 1989

Santesson 1993b

Triebel 1989

Triebel & Scholz 2001

Roux et al. 1998

**glebarum** (Arnold) Hafellner: on *Toninia*  
**grex** Alstrup & Olech: on *Ochrolechia* cf.  
*frigida*  
**gyrophorarum** (Arnold) D. Hawksw.: on  
*Umbilicaria*  
**Pharcidia haesitans** Vouaux: on  
*Protothelenella sphinctrinoides*  
**hafellneri** Zhurb.: on *Flavocetraria cucullata*  
**hageniae** (Rehm) Hafellner: on *Anaptychia*  
*ciliaris*  
**hesperium** Kocourk., K. Knudsen &  
Diederich: on *Caloplaca coralloides*  
**heterodermiae** Etayo: on *Heterodermia*  
**humidum** Pérez-Ortega, Halici & K.  
Knudsen: on *Thelenella muscorum*  
**hygrophilum** (Arnold) R. Sant.: on  
*Rhizocarpon* and *Porpidia*  
**joergensenii** R. Sant.: on  
*Marchandiomphalina foliacea*  
**johnii** Halici & D. Hawksw.: on *Caloplaca*  
**lecidellae** Triebel, Cl. Roux & Le Coeur: on  
*Lecidella elaeochroma*  
**leprariae** Zhurb.: on *Lepraria neglecta*  
**leptogii** Etayo: on *Leptogium*  
**leucophlebiae** Cl. Roux & Triebel: on  
*Peltigera leucophlebia*  
**lichenum** (Arnold) Triebel & P. Scholz: on  
*Verrucaria maculiformis*  
**marinum** (Deakin) Swinscow: on maritime  
*Verrucaria*  
**Pharcidia maritima** B. de Lesd.: on  
*Verrucaria*  
**microcarpum** Alstrup & J.C. David: on

*Flavocetraria cucullata*

**microspilum** (Körb.) D. Hawksw.: on

*Graphis scripta*

**microsporum** Etayo & Osorio: on

*Teloschistes*

**mitchellii** Cl. Roux & Bricaud: on *Pannaria*

*conoplea*

**mycobilimbiae** Cl. Roux, Triebel & Etayo:

on *Bilimbia lobulata* and *B. sabuletorum*

**neofusceliae** Calat. & Triebel: on

*Xanthoparmelia pulla*

**Pharcidia parva** Henssen: on *Ephebe*

*lanata*

**peltideae** (Vain.) R. Sant.: on *Peltigera*

**petri** Hafellner: on *Clauzadea monticola*

**placynthii** Cl. Roux & Nav.-Ros.: on

*Placynthium nigrum*

**porinae** Matzer: on foliicolous *Porina*

**pseudopeltideae** Cl. Roux & Triebel: on

*Peltigera*

**psorae** (Anzi) Hafellner: on *Psora crenata* and

*P. decipiens*

**pumilum** (Lettau) Matzer & Hafellner: on

*Physcia*

**ramalinae** (Müll. Arg.) Etayo &

Diederich: on *Ramalina*

**rivulorum** (Kernst.) Cl. Roux & Nav.-Ros.:

on *Verrucaria*

**rouxianum** Calat. & Triebel: on *Acarospora*

*cervina*

**schaereri** (A. Massal.) Trevis.: on *Solorina*

thalli parasitized by *Dacampia hookeri*

**schizoporum** Matzer: on foliicolous *Porina*

	<p><b>solorinarium</b> (Vain.) D. Hawksw.: on <i>Solorina saccata</i></p> <p><b>spegazzinii</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>squamariae</b> (B. de Lesd.) Cl. Roux &amp; Triebel: on <i>Lecanora gr. muralis</i> and <i>L. polytropa</i></p> <p><b>squamarinicola</b> Calat. &amp; Triebel: on <i>Squamarina</i></p> <p><b>stereocaulorum</b> Zhurb. &amp; Triebel: on <i>Stereocaulon</i></p> <p><b>stygnospila</b> (Minks) R. Sant.: on <i>Dermatocarpon</i></p> <p><b>superpositum</b> (Nyl.) D. Hawksw.: on <i>Sporodictyon</i></p> <p><b>tabacinae</b> (Arnold) Triebel: on <i>Toninia</i></p> <p><b>tetrasporum</b> Etayo: on Verrucariaceae</p> <p><b>trichothelium</b> Matzer: on foliicolous <i>Trichothelium</i></p> <p><b>triebeliae</b> Etayo: on <i>Parmotrema</i></p> <p><b>Pharcidia verrucariarum</b> (Arnold) Sacc.: on <i>Verrucaria</i></p> <p><b>vezdae</b> Matzer: on foliicolous <i>Bacidina colchica</i></p> <p><b>xanthoparmeliarum</b> Hafellner: on <i>Xanthoparmelia</i></p>		
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## Home

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <a href="#">culture collection links</a> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				

Mycocaliciales				
Mycocaliciaceae				
<p><i>Chaenothecopsis</i></p>	<p><b>arthoniae</b> Tibell: on <i>Arthonia vinosa</i>  <b>australis</b> Tibell: on <i>Lecanactis abietina</i>  <b>brevipes</b> Tibell: on <i>Arthonia</i> and <i>Lecanactis</i>  <b>cinerea</b> Tibell: on <i>Lecanactis abietina</i>  <b>consociata</b> (Nádv.) A. F. W. Schmidt: on <i>Chaenotheca chrysocephala</i>  <b>epithallina</b> Tibell: on <i>Chaenotheca trichialis</i>  <b>formosa</b> Titov: on <i>Chaenotheca sphaerocephala</i>  <b>hospitans</b> (Th. Fr.) Tibell: on <i>Haematomma ochroleucum</i> and <i>Lecanora</i>  <b>kalbii</b> Tibell &amp; K. Ryman: on <i>Lecanora caesiorubella</i>  <b>lecanactidis</b> Tibell: on <i>Lecanactis abietina</i>  <b>leifiana</b> Titov: on <i>Arthonia</i>  <b>nigra</b> Tibell: on <i>Chaenotheca</i>  <b>ochroleuca</b> (Körb.) Tibell &amp; K. Ryman: on <i>Haematomma ochroleucum</i>  <b>parasitaster</b> (Bagl. &amp; Carestia) D. Hawksw.: on <i>Cladonia</i>  <b>pilosa</b> Tibell &amp; Kalb: on <i>Tylophoron moderatum</i>  <b>pusiola</b> (Ach.) Vain.: on <i>Chaenotheca</i> or saprophytic  <b>retinens</b> (Nyl.) Tibell: on <i>Schismatomma cretaceum</i> and <i>Arthonia byssacea</i>  <b>rubescens</b> Vain.: on <i>Arthonia byssacea</i>, other lichens with <i>Trentepohlia</i> or saprophytic  <b>rubina</b> Tibell: on <i>Pyrgidium montelicum</i>  <b>sagenidii</b> Tibell: on <i>Sagenidium molle</i></p>	<p>Clauzade et al. 1989  Tibell 1991b  Tibell 1998  Tibell &amp; Ryman 1995  Titov 2006</p>	<p><b>viridireagens</b>: CBS (14 records); UPSC</p>	<p><b>consociata</b>: nrITS+LSU: AY795851  <b>consociata</b>: nrLSU: DQ008999  <b>epithallina</b> (Tibell 22793): nrITS+LSU: AY795856  <b>epithallina</b> (Tibell 22705): nrITS+LSU: AY795855  <b>epithallina</b> (Tibell 22716): nrLSU: AY795994  <b>pusiola</b> (Tibell 15884): nrITS+LSU: AY795865  <b>pusiola</b> (Tibell 19258): nrLSU: AY795999  <b>savonica</b> (Tibell 15876): nrITS+LSU: AY795868; nrLSU: AY796000  <b>savonica</b>: nrSSU: U86691  <b>subparoica</b>: nrITS+LSU: AY795869  <b>viridireagens</b> (Tibell 22803): nrITS: AY795872; nrLSU: DQ013257</p>

	<p><b>savonica</b> (Räsänen) Tibell: on <i>Chaenotheca</i> or saprophytic</p> <p><b>sinensis</b> Titov: on unidentified lichen with chlorococcoid algae</p> <p><b>subparoica</b> (Nyl.) Tibell: on <i>Haematomma ochroleucum</i></p> <p><b>tasmanica</b> Tibell: on diverse lichens, incl. <i>Chaenotheca chrysocephala</i></p> <p><b>vainioana</b> (Nádv.) Tibell: on <i>Arthonia</i>, <i>Lecanactis abietina</i>, <i>Calicium salicinum</i>, other lichens with <i>Trentepohlia</i> or saprophytic</p> <p><b>vinosa</b> Titov: on lichens</p> <p><b>viridialba</b> (Kremp.) A. F. W. Schmidt: on <i>Chaenotheca chrysocephala</i> or saprophytic</p> <p><b>viridireagens</b> (Nádv.) A. F. W. Schmidt: on <i>Calicium</i> or on free-living algae</p>			
<i>Mycocalicium</i>	<b>rapax</b> Tibell: on <i>Pertusaria</i>	Titov 2006		
<i>Sphinctrina</i>	<p><b>anglica</b> Nyl.: on <i>Protoparmelia</i></p> <p><b>benmargana</b> Selva: on <i>Pertusaria</i></p> <p><b>leucopoda</b> Nyl.: on <i>Pertusaria</i> and <i>Diploschistes</i></p> <p><b>pallidella</b> (Willey) Selva: on <i>Pertusaria</i></p> <p><b>tubaeformis</b> A. Massal.: on <i>Pertusaria</i></p> <p><b>turbinata</b> (Pers.) de Not.: on <i>Pertusaria</i></p>	<p>Kalb 2001</p> <p>Löfgren &amp; Tibell 1979</p> <p>Purvis et al. 1992</p> <p>Titov 2006</p>	<p><b>leucopoda</b>: CBS 114206; UPSC</p>	<p><b>leucopoda</b> (Kalb 33829): nrITS+LSU: <a href="#">AY795875</a>; nrLSU: <a href="#">AY796006</a></p> <p><b>turbinata</b> (Tibell 23093): nrITS+LSU: <a href="#">AY795877</a>; nrLSU: <a href="#">DQ009001</a></p> <p><b>turbinata</b> (Tibell 22478): nrITS+LSU: <a href="#">AY795876</a>; nrLSU: <a href="#">AY796007</a></p> <p><b>turbinata</b> (AFTOL 1721): nrSSU: <a href="#">EF413631</a>; nrLSU: <a href="#">EF413632</a>; mtSSU: <a href="#">FJ713611</a>; RPB2: <a href="#">EF413633</a></p> <p><b>turbinata</b>: nrSSU: <a href="#">U86693</a></p>

[Home](#)

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<b>ASCOMYCOTA</b>				
<b>Lichinales</b>				
Lichinaceae				
<i>Lichinodium</i>	<i>sirosiphoideum</i> Nyl.: lichen, juvenile parasite of <i>Parmelia</i> s.lat.	Rambold & Triebel 1992		
<i>Phylliscum</i>	<i>demangeonii</i> (Moug. & Nestler) Nyl.: lichen, juvenile parasite on <i>Ochrolechia frigida</i>	Rambold & Triebel 1992		

## Home

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <a href="#">culture collection links</a> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Candelariales</b>				
Candelariaceae				
<i>Candelariella</i>	<i>superdistans</i> (Nyl.) Malme: lichenicolous lichen on <i>Lecanora populicola</i>	Gilbert & James 2009		
<b>Lecanorales s.lat.</b>				
Acarosporaceae				
<i>Acarospora</i>	<i>anatolica</i> H. Magn.: lichenicolous lichen on <i>Dimelaena</i> <i>brevilobata</i> H. Magn.: lichenicolous lichen on <i>Rhizocarpon</i> <i>epithallina</i> H. Magn.: lichenicolous lichen on	Knudsen 2011 Knudsen & Kocrouková 2010 Rambold & Triebel 1992		

<p><i>Acarospora</i> and <i>Caloplaca</i> <i>heufleriana</i> Körb.: lichenicolous lichen on <i>Lecanora valesiaca</i> <i>hospitans</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i>, <i>Bellemerea</i>, <i>Leanora</i>, <i>Lecidea</i> and <i>Tremolecia</i> <i>insignis</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i> <i>insolata</i> (B. de Lesd.) Redinger: lichenicolous lichen on <i>Immersaria</i> and <i>Rhizocarpon</i>, becoming independent <i>interjecta</i> H. Magn.: lichenicolous lichen on <i>Acarospora novomexicana</i> <i>invadens</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i> and <i>Dimelaena</i>, becoming independent <i>jenisejensis</i> H. Magn.: lichenicolous lichen on <i>Buellia</i>, <i>Dimelaena</i> and <i>Lecanora</i>, becoming independent <i>microcarpa</i> (Nyl.) Weddell: lichenicolous lichen on <i>Acarospora</i> and <i>Dimelaena</i>, becoming independent <i>nashii</i> K. Knudsen: lichenicolous lichen on <i>Dimelaena</i> and <i>Pleopsidium</i>, becoming independant <i>pulvinata</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i> <i>sphaerospora</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i>, becoming independent <i>stapfiana</i> (Müll. Arg.) Hue: lichenicolous lichen on <i>Caloplaca</i> and <i>Xanthoria elegans</i> <i>strigata</i> (Nyl.) Jatta: lichenicolous lichen on <i>Aspicilia</i>, becoming independent <i>succedens</i> H. Magn.: lichenicolous lichen on</p>			
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	<p><i>Dimelaena oreina</i>  <i>superans</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i> and <i>Dimelaena</i>  <i>suprasedens</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i> and <i>Lecanora</i>  <i>tominiana</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i>  <i>umbrina</i> H. Magn.: lichenicolous lichen on <i>Lecanora</i></p>			
<i>Polysporina</i>	<p><b>arenacea</b> (H. Magn.) K. Knudsen &amp; Kocourk.: on crustose lichens on siliceous rocks  <b>pusilla</b> (Anzi) Kantvilas: on crustose lichens on calcareous rocks, e.g., <i>Acarospora</i>, <i>Caloplaca</i>, <i>Protoblastenia</i>  <b>subfuscens</b> (Nyl.) K. Knudsen &amp; Kocourk.: on crustose lichens on siliceous rocks, e.g., <i>Acarospora</i>, <i>Buellia</i>, <i>Caloplaca</i>, <i>Candelariella</i>, <i>Lecidea</i></p>	Knudsen & Kocourková 2008		
<i>Sarcogyne</i>	<b>sphaeospora</b> J. Steiner: lichenicolous lichen on <i>Candelariella</i>	Lendemmer et al. 2009		
Catillariaceae				
<i>Catillaria</i>	<p><b>lobariicola</b> (Alstrup) Coppins &amp; Aptroot: on <i>Lobaria scrobiculata</i>  <b>mediterranea</b> Hafellner: lichenicolous lichen with a reduced thallus, on <i>Anaptychia ciliaris</i> and <i>Niebla bourgaeana</i>  <b>usneicola</b> Etayo: on <i>Usnea</i></p>	Alstrup 1997 Etayo 2000 Hafellner 1982b		
<i>Halecania</i>	<p><i>lobulata</i> van den Boom &amp; Elix: lichen, possibly lichenicolous over <i>Hymenelia</i>  <i>santessonii</i> Andreev: lichenicolous lichen on <i>Porpidia albocaerulescens</i></p>	Andreev 2010 van den Boom & Elix 2005		
Fuscideaceae				

<i>Lettauia</i>	<b>cladoniicola</b> D. Hawksw. & R. Sant.: on <i>Cladonia</i> <b>hypotrachynae</b> Etayo: on <i>Hypotrachyna</i> <b>santessonii</b> Ihlen & Tønsberg: on <i>Loxospora pustulata</i>	Etayo 2002 Hawksworth & Santesson 1990 Ihlen & Tønsberg 1996		
Hymeneliaceae				
<i>Aspicilia</i>	<i>parasitica</i> B. de Lesd.: lichenicolous lichen on saxicolous, crustose lichens	Rambold & Triebel 1992		
Lecanoraceae				
<i>Carbonea</i>	<b>aggregantula</b> (Müll. Arg.) Diederich & Triebel: on <i>Lecanora</i> (mainly <i>L. polytropia</i> ), also reported from <i>Rhizoplaca</i> <b>antarctica</b> (C. W. Dodge & G. E. Baker) D. Hawksw. & Iturr.: on <i>Pseudephebe</i> <i>assimilis</i> (Körb.) Hafellner & Hertel: lichenicolous lichen on <i>Aspicilia</i> , <i>Lecanora</i> , <i>Lecidea</i> , <i>Pertusaria</i> , <i>Rhizocarpon</i> and <i>Tephromela</i> <i>atronivea</i> (Arnold) Hertel: lichenicolous lichen on <i>Lecidella</i> , becoming independent <b>degelii</b> Alstrup: on <i>Lecanora intricata</i> <i>distans</i> (Kremp.) Hafellner & Obermayer: lichenicolous lichen on <i>Orphniospora mosigii</i> <i>distans</i> var. <i>buelliarum</i> (Hertel) Hertel: lichenicolous lichen on <i>Buellia</i> <b>herteliana</b> Hafellner & Matzer: on <i>Rhizocarpon</i> <b>Catillaria hospitans</b> H. Magn.: on <i>Lecidea</i> <b>intrudens</b> (H. Magn.) Hafellner: on <i>Rhizocarpon</i> <i>invadens</i> (H. Magn.) Andreev: lichen, juvenile lichenicolous on <i>Rhizocarpon geographicum</i>	Alstrup et al. 1994 Chambers et al. 2009 Etayo & Sancho 2008 Hafellner 1999 Hafellner 2006 Hawksworth & Iturriaga 2006 Hertel 1967 Obermayer 1993 Rambold & Triebel 1992		<b>supersparsa</b> : nrSSU: <a href="#">AY567773</a> <b>vitellinaria</b> : nrITS and nrLSU: <a href="#">AY541239</a>

	<p><b>minor</b> Triebel &amp; Rambold ined.: on <i>Lecanora</i> 'subfusca' and <i>L. vainioi</i></p> <p><b>neuropogonis</b> Etayo: on <i>Usnea aurantiaco-atra</i></p> <p><b>superjecta</b> (Nyl.) Hertel: on <i>Lecanora disjungenda</i></p> <p><b>supersparsa</b> (Nyl.) Hertel: on <i>Lecanora</i> (mainly <i>L. polytropa</i>)</p> <p><b>supersparsa</b> var. <b>bicolor</b> R. Sant. &amp; Triebel ined.: on <i>Lecanora intricata</i></p> <p><b>vitellinaria</b> (Nyl.) Hertel: on <i>Candelariella</i></p>			
<p><i>Lecanora</i></p>	<p><i>epithallina</i> H. Magn.: lichenicolous lichen on <i>Vestergrenopsis isidiata</i></p> <p><i>gisleriana</i> Müll. Arg.: lichenicolous lichen on <i>Lecanora epanora</i>, <i>L. handelii</i> and <i>L. subaurea</i></p> <p><i>gyrophorina</i> Poelt &amp; Zhurbenko: lichenicolous lichen on <i>Umbilicaria hyperborea</i></p> <p><i>invadens</i> H. Magn.: lichenicolous lichen on <i>Aspicilia asiatica</i></p> <p><b>lasalliae</b> Pérez-Ortega &amp; Etayo: on <i>Lasallia pustulata</i></p> <p><i>latro</i> Poelt: lichenicolous lichen on <i>Miriquidica nigroleprosa</i></p> <p><b>lecanoricola</b> (Alstrup, D. Hawksw. &amp; R. Sant.) Rambold &amp; Triebel: on <i>Lecanora cenisia</i></p> <p><i>mosigiicola</i> (Eitner) Hertel &amp; Rambold: lichenicolous lichen on <i>Orphniospora mosigii</i></p> <p><i>mosigiicola</i> var. <i>buelliarum</i> (Hertel) Hertel &amp; Rambold: lichenicolous lichen on <i>Buellia printzenii</i> Pérez-Ortega, Vivas &amp; Hafellner:</p>	<p>Etayo &amp; Sancho 2006 Lumbsch et al. 2011 Pérez-Ortega &amp; Etayo 2008 Poelt et al. 1996 Rambold &amp; Triebel 1992</p>		

	lichenicolous lichen on <i>Umbilicaria tolypodes</i> Poelt & Vězda: lichenicolous lichen on <i>Aspicilia</i> cf. <i>grisea</i> <b>usneicola</b> Etayo: on <i>Usnea antarctica</i>			
<i>Lecidella</i>	<i>dimelaenophila</i> Hertel: lichen, juvenile lichenicolous on <i>Dimelaena oreina</i> <i>vorax</i> Leuckert & Poelt: lichenicolous lichen on <i>Lecanora rupicola</i>	Rambold & Triebel 1992		
<i>Miriquidica</i>	<b>intrudens</b> (H. Magn.) Hertel & Rambold: lichenicolous lichen on <i>Rhizocarpon</i>	Rambold & Triebel 1992		
<i>Ramboldia</i>	<i>insidiosa</i> (Th. Fr.) Hafellner: lichenicolous lichen on <i>Lecanora varia</i>	Hafellner & Türk 1995		
Lecideaceae				
<i>Bellemerea</i>	<i>cupreoatra</i> (Nyl.) Clauz. & Cl. Roux: lichenicolous lichen on <i>Buellia</i> , becoming independent	Rambold & Triebel 1992		
<i>Cecidonia</i>	<b>umbonella</b> (Nyl.) Triebel & Rambold: on <i>Lecidea</i> <b>xenophana</b> (Körb.) Triebel & Rambold: on <i>Porpidia</i>	Triebel & Rambold 1988		<b>umbonella</b> : nrLSU: AY532990; beta-tubulin: AY536768 <b>xenophana</b> : nrLSU: AY532991; beta-tubulin: AY536769
<i>Immersaria</i>	<i>athroocarpa</i> (Ach.) Rambold & Pietschmann: lichen, facultative juvenile lichenicolous on <i>Aspicilia</i> and other lichens <b>usbekica</b> (Hertel) Barbero, Nav.-Ros. & Roux: lichen, facultative juvenile lichenicolous on <i>Aspicilia</i> and other lichens	Rambold & Triebel 1992		
<i>Lecidea</i> s.l.	<b>acervata</b> Stiz.: on <i>Pseudoparmelia</i> [a poorly known taxon] <b>cetrariicola</b> Lindsay: on <i>Cetraria</i> <b>grumannii</b> Hertel: lichenicolous lichen on <i>Acarospora</i> <b>halacsyi</b> J. Steiner: on <i>Rhizocarpon geographicum</i>	Hafellner 2006 Rambold & Triebel 1992		

	<p><b>perforans</b> Stiz.: on <i>Parmotrema</i> [a poorly known taxon]  <i>rapax</i> Hertel: lichenicolous lichen on <i>Aspicilia</i> and <i>Bellemerea</i>  <i>verruca</i> Poelt: lichenicolous lichen on <i>Aspicilia</i></p>			
<i>Poeltiaria</i>	<i>coromandelica</i> (Zahlbr.) Rambold & Hertel: lichen, juvenile lichenicolous on <i>Parapordia leptocarpa</i>	Rambold & Triebel 1992		
Mycoblastaceae				
<i>Tephromela</i>	<p><b>campestricola</b> (Nyl.) Rambold &amp; Triebel: on <i>Lecanora pseudistera</i> and L. sp.  <b>cerasina</b> (Müll. Arg.) Rambold &amp; Triebel: on <i>Dirinaria</i>  <b>koliensis</b> (Räs.) Rambold &amp; Triebel: on <i>Lecanora argopholis</i></p>	Rambold 1993		
Parmeliaceae				
<i>Phacopsis</i>	<p><b>australis</b> Aptroot &amp; Triebel: on <i>Xanthoparmelia</i>  <b>cephalodioides</b> (Nyl.) Triebel &amp; Rambold: on <i>Hypogymnia physodes</i>  <b>doerfeltii</b> Alstrup &amp; P. Scholz: on <i>Arctoparmelia centrifuga</i>  <b>falcispora</b> Triebel &amp; Rambold: on <i>Usnea</i>  <b>fusca</b> (Triebel &amp; Rambold) Diederich: on <i>Xanthoparmelia</i> and other parmelioid genera (<i>Hypogymnia</i>, <i>Parmelinopsis</i>, <i>Parmotrema</i>, <i>Pseudevernia</i>)  <b>huuskonenii</b> Räsänen: on <i>Bryoria</i>  <b>lethariellae</b> Hafellner &amp; Rambold: on <i>Lethariella intricata</i>  <b>oroarcticae</b> Zhurb.: on <i>Brodoa oroarctica</i>  <b>oxyspora</b> (Tul.) A. Massal. [incl. <i>menegazziae</i></p>	<p>Etayo &amp; Sancho 2006  Hafellner 1987a  Scholtz 1998  Triebel &amp; Rambold 1988  Triebel et al. 1995  Zhurbenko 2010b</p>		<p><b>huuskonenii</b>: nrITS (Phuu): <a href="#">AF450283</a>  <b>huuskonenii</b> (D41): nrSSU: <a href="#">AF450289</a>  <b>oxyspora</b> (D169): nrITS: <a href="#">AF450287</a>  <b>oxyspora</b> (D20): nrITS: <a href="#">AF450284</a>  <b>oxyspora</b> (PhCop1): nrSSU: <a href="#">AF450290</a>  <b>vulpina</b> (D132): nrITS: <a href="#">AF450285</a></p>

	<p>Triebel &amp; Rambold]: on <i>Everniastrum</i>, <i>Hypotrachyna</i>, <i>Melanohalea</i>, <i>Menegazzia</i>, <i>Parmelia</i>, <i>Platismatia</i> and <i>Punctelia</i></p> <p><b>prolificans</b> (Müll. Arg.) Triebel &amp; Rambold: on <i>Platismatia interrupta</i></p> <p><b>rufa</b> (Müll. Arg.) Triebel: on <i>Cetrelia</i> and <i>Punctelia</i></p> <p><b>thallicola</b> (A. Massal.) Triebel &amp; Rambold: on <i>Cetrelia</i>, <i>Flavoparmelia</i>, <i>Flavopunctelia</i> and <i>Parmotrema</i></p> <p><b>usneae</b> C. W. Dodge: on <i>Usnea</i> subgen. <i>Neuropogon</i></p> <p><b>vulpina</b> Tul.: on <i>Letharia</i></p>			
<i>Protoparmelia</i>	<p><i>atriseda</i> (Fr.) R. Sant. &amp; V. Wirth: lichen, juvenile lichenicolous on <i>Rhizocarpon</i></p> <p><i>cupreobadia</i> (Nyl.) Poelt: lichen, juvenile lichenicolous on <i>Rhizocarpon</i></p> <p><i>leproloma</i> (R. Sant.) Rambold &amp; Poelt: lichenicolous lichen on <i>Lecidea praenubila</i></p> <p><i>loricata</i> Poelt &amp; Vězda: lichenicolous lichen on <i>Lecanora umbrosa</i></p> <p><i>phaeonesos</i> Poelt: lichenicolous lichen on <i>Aspicilia myrinii</i></p> <p><i>placentiformis</i> (J. Steiner) Poelt: lichen, juvenile lichenicolous on <i>Bellemeria cupreoatra</i></p>	Rambold & Triebel 1992		
Physciaceae				
<i>Buellia</i>	<p><b>adjuncta</b> Th. Fr.: on <i>Lecanora straminea</i> (and <i>Rinodina olivaceobrunnea</i> ?)</p> <p><i>badia</i> (Fr.) A. Massal.: lichen, juvenile parasite on saxicolous <i>Parmelia</i> s. lat.</p> <p><i>caloplacivora</i> Llimona &amp; Egea: lichenicolous lichen on <i>Caloplaca</i>, becoming independent</p> <p><i>imshaugii</i> Hafellner: lichenicolous lichen on</p>	<p>Calatayud &amp; Barreno 1995</p> <p>Clauzade et al. 1989</p> <p>Etayo &amp; Osorio 2004</p> <p>Hafellner 1979</p> <p>Rambold &amp; Triebel 1992</p> <p>Scheidegger 1987</p>		

	<p><i>Dimelaena oreina</i>  <b>miriquidica</b> Scheidegger: lichenicolous lichen on <i>Schaereria fuscocinerea</i>  <b>uberior</b> Anzi: lichenicolous lichen on <i>Schaereria fuscocinerea</i>, soon becoming independent  <b>uruguayensis</b> Etayo &amp; Osorio: on <i>Caloplaca felipponei</i>  <b>vouauxii</b> Calatayud &amp; Barreno: on <i>Rhizoplaca melanophthalma</i></p>			
' <i>Caliciella</i> '	<p><b>parasitica</b> Räsänen: on <i>Chaenotheca furfuracea</i></p>	Clauzade et al. 1989 Kaufmann & Hofmann 1998		
<i>Cyphelium</i>	<p><b>marcianum</b> B. de Lesd.: on <i>Pertusaria pseudocorallina</i>  <b>sessile</b> (Pers.) Trevis.: on <i>Pertusaria coccodes</i> and other corticolous <i>Pertusaria</i></p>	Giavarini & Purvis 2009 Tibell 1971		
<i>Diplotomma</i>	<p><b>Buellia lecanoricola</b> Renob., nom. nud.: on <i>Lecanora albescens</i>, soon with it's own thallus  <b>murorum</b> (A. Massal.) Coppins: lichenicolous lichen on <i>Caloplaca teicholyta</i>  <b>nivalis</b> (Bagl. &amp; Carestia) Hafellner: on <i>Xanthoria elegans</i>, <i>X. sorediata</i> and <i>Caloplaca</i>, soon with it's own thallus  <b>scheideggerianum</b> (Bricaud &amp; Cl. Roux) Nimis: lichenicolous lichen on <i>Caloplaca xantholyta</i>  <b>vezdanum</b> (P. Scholz &amp; Knoph) Coppins: lichenicolous lichen on <i>Caloplaca verruculifera</i></p>	Bricaud & Roux 1991 Duke & Purvis 2009 Hafellner 1979 Renobales 1996		
<i>Endohyalina</i>	<p><b>brandii</b> Giralt, van den Boom &amp; Elix: on <i>Aspicilia intermutans</i>, often lichenized with an own thallus  <b>diederichii</b> Giralt, van den Boom &amp; Elix: on</p>	Giralt et al. 2010		

	<p><i>Ramalina</i>, occasionally lichenized with a reduced thallus</p> <p><b>insularis</b> (Arnold) Giralt, van den Boom &amp; Elix: on <i>Lecanora rupicola</i> agg., very rarely lichenized with a reduced thallus</p>			
<i>Rinodina</i>	<p><b>egedeana</b> (Lindsay) Alstrup &amp; D. Hawksw.: on <i>Parmelia</i> and <i>Peltigera</i></p> <p><i>insularis</i> (Arnold) Hafellner: lichenicolous lichen on <i>Lecanora bicincta</i> and <i>L. rupicola</i></p> <p><i>obnascens</i> (Nyl.) H. Olivier: lichenicolous lichen on <i>Aspicilia</i> and <i>Rhizocarpon</i></p> <p><i>parasitica</i> Mayrhofer &amp; Poelt: lichenicolous lichen on <i>Aspicilia</i>, <i>Lecanora</i> and <i>Lecidea</i></p> <p><i>santorinensis</i> J. Steiner: lichen, facultatively lichenicolous on <i>Diploicia</i>, <i>Ochrolechia</i>, <i>Pertusaria</i>, etc.</p> <p><i>superposita</i> H. Magn.: lichenicolous lichen on <i>Lecanora</i> and <i>Lecidea</i></p>	Alstrup & Hawksworth 1990 Rambold & Triebel 1992		
<i>Tetramelas</i>	<p><i>concinus</i> (Th. Fr.) Giralt: lichenicolous lichen on <i>Buellia</i>, <i>Melanelia</i>, <i>Parmelia</i>, <i>Physcia</i> and <i>Pseudephebe</i>, becoming independent</p> <p><b>phaeophysciae</b> A. Nordin &amp; Tibell: on <i>Phaeophyscia</i> and <i>Physcia</i></p> <p><b>pulverulentus</b> (Anzi) A. Nordin &amp; Tibell: mainly on <i>Physconia</i>, also on <i>Anaptychia</i>, <i>Phaeophyscia</i> and <i>Physcia</i></p>	Hafellner & Poelt 1980 Nordin & Tibell 2005 Scheidegger & Ruef 1988		
Pilocarpaceae				
<i>Micarea</i>	<p><b>inquinans</b> (Tul.) Coppins: on <i>Dibaeis baeomyces</i></p>	Coppins 2009		
<i>Scutula</i>	<p><b>cladoniicola</b> Alstrup &amp; D. Hawksw.: on <i>Cladonia stricta</i></p> <p><i>dedicata</i> Triebel, Wedin &amp; Rambold: lichenicolous lichen on <i>Peltigera</i></p>	Alstrup & Hawksworth 1990 Etayo & Sancho 2008 Etayo & Triebel 2010 Triebel et al. 1997 Wedin et al. 2007		<p><b>tuberculosa</b> [=krempehuberi]: mtSSU: <a href="#">AY567789</a></p> <p><b>miliaris</b>: mtSSU: <a href="#">AY567790</a></p>

	<p><b>epiblastematica</b> (Wallr.) Rehm: on <i>Peltigera heerii</i> (Hepp) Trevis.: lichenicolous lichen on <i>Peltigera miliaris</i> (Wallr.) Trevis.: on <i>Peltigera</i> [anamorph: <i>Karsteniomyces peltigerae</i> (P. Karst.) D. Hawksw.]</p> <p><b>nephromatis</b> (Speg.) Etayo: on <i>Nephroma antarcticum</i></p> <p><b>pseudocyphellariae</b> Etayo &amp; Triebel: on <i>Pseudocyphellaria</i></p> <p><b>stereocaulorum</b> (Anzi) Körber: on <i>Stereocaulon tuberculosa</i> (Th. Fr.) Rehm: on <i>Solorina</i></p>			
Psoraceae				
<i>Glyphopeltis</i>	<i>ligustica</i> (B. de Lesd.) Timdal: lichen, juvenile parasite on <i>Peltula</i>	Ott & Scheidegger 1992 Rambold & Triebel 1992		
<i>Psorula</i>	<i>rufonigra</i> (Tuck.) G. Schneider: lichenicolous lichen on <i>Spilonema</i>	Rambold & Triebel 1992		
Ramalinaceae				
<i>Bacidia</i>	<b>killiasii</b> (Hepp) D. Hawksw.: on <i>Peltigera</i>	Rambold & Triebel 1992		
<i>Toninia</i>	<p><b>collematicola</b> Timdal: on <i>Collema episema</i> (Nyl.) Timdal: on <i>Aspicilia leptogii Timdal: on <i>Collema</i> and <i>Leptogium nordlandica</i> Th. Fr.: lichenicolous lichen on <i>Placynthium</i> and other lichens with cyanobacteria</i></p> <p><b>plumbina</b> (Anzi) Hafellner &amp; Timdal: on <i>Degelia subfuscae</i> (Arnold) Timdal: on <i>Lecanora</i>, rarely on <i>Lecidella talparum</i> Timdal: on <i>Lecania</i></p>	Etayo & Sancho 2008 Rambold & Triebel 1992 Timdal 1992		<p><b>plumbina</b>: nrITS: <a href="#">AF282107</a></p> <p><b>verrucarioides</b>: nrITS: <a href="#">AF282128</a></p>

	<p><i>ualae</i> Etayo: lichenicolous lichen on <i>Pseudocyphellaria</i> and <i>Nephroma antarcticum</i></p> <p><i>verrucariae</i> (Nyl.) Timdal: on <i>Bagliettoa</i> and <i>Encephalographa elisae</i></p> <p><i>verrucarioides</i> (Nyl.) Timdal: lichenicolous lichen on <i>Placynthium</i></p>			
Rhizocarpaceae				
<i>Epilichen</i>	<p><i>glaucinigellus</i> (Nyl.) Hafellner: lichenicolous lichen on <i>Baeomyces</i></p> <p><i>scabrosus</i> (Ach.) Clements: lichenicolous lichen on <i>Baeomyces</i></p> <p><b>stellatus</b> Triebel: on <i>Lecidea</i> cf. <i>tessellata</i></p>	<p>Hafellner 1978</p> <p>Triebel 1989</p>		
<i>Rhizocarpon</i>	<p><b>advenulum</b> (Leight.) Hafellner &amp; Poelt: on <i>Pertusaria flavicans</i> and <i>P. rupicola</i></p> <p><i>asiaticum</i> (Poelt) Poelt: lichenicolous lichen on <i>Sporastatia</i></p> <p><b>bryonthae</b> Poelt: on <i>Pertusaria bryontha</i></p> <p><i>captans</i> Poelt: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>destructans</i> Alstrup: lichenicolous lichen on <i>Lecanora polytropa</i></p> <p><b>dinothetes</b> Hertel &amp; Leuckert: lichenicolous lichen on <i>Protoparmelia</i></p> <p><i>diploschistidina</i> McCune: lichenicolous lichen on <i>Diploschistes muscorum</i></p> <p><i>epispilum</i> (Nyl.) Zahlbr., s.lat.: on saxicolous <i>Pertusaria</i></p> <p><i>fratricida</i> Poelt &amp; Nimis: lichenicolous lichen on <i>Rhizocarpon</i></p> <p><i>fuegianum</i> Poelt, nom. nud.: lichenicolous lichen on <i>Rhizocarpon geographicum</i></p>	<p>Lumbsch et al. 2011</p> <p>Rambold &amp; Triebel 1992</p>		

	<p><i>furax</i> Poelt &amp; V. Wirth: lichenicolous lichen on <i>Lecidea</i></p> <p><i>inimicum</i> Poelt &amp; Vězda: lichenicolous lichen on <i>Lecanora rupicola</i> s.lat.</p> <p><i>kakurgon</i> Poelt: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>kansuense</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>lusitanicum</i> (Nyl.) Arnold: lichenicolous lichen on saxicolous <i>Pertusaria</i></p> <p><b>malenconianum</b> (Llimona &amp; Werner) Hafellner &amp; Mayrhofer: on <i>Diploschistes</i></p> <p><b>narssaqense</b> Alstrup: on <i>Lecanora atromarginata</i></p> <p><b>ochrolechia</b> (Poelt &amp; Nimis) Hafellner: on <i>Ochrolechia parella</i></p> <p><i>pusillum</i> Runem.: lichenicolous lichen on <i>Sporastatia</i></p> <p><i>rapax</i> V. Wirth &amp; Poelt: on <i>Acarospora</i>, <i>Aspicilia</i> and <i>Rimularia</i></p> <p><i>renneri</i> Poelt: on <i>Dimelaena oreina</i></p> <p><i>santessonii</i> Timdal: on <i>Tremolecia atrata</i></p> <p><i>schedomyces</i> Hafellner &amp; Poelt: on saxicolous <i>Pertusaria</i></p> <p><i>viridiatrum</i> (Wulf.) Koerb.: lichen, juvenile often lichenicolous on <i>Aspicilia</i>, <i>Lecidea</i>, <i>Tremolecia</i></p> <p><i>vorax</i> Poelt &amp; Hafellner: on <i>Ochrolechia parella</i> and <i>Pertusaria</i></p>			
Teloschistaceae				
<i>Caloplaca</i>	<p><i>anchonphoeniceon</i> Poelt &amp; Clauz.: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>epithallina</i> Lyngé: lichenicolous lichen on</p>	<p>Breuss 1990</p> <p>Nimis et al. 1994</p> <p>Olech &amp; Søchting 1993</p> <p>Rambold &amp; Triebel 1992</p>		

	<p><i>Acarospora, Aspicila, Dimelaena, Lecanora, Melanelia, Pleopsidium, Psorinia, Rhizocarpon, Rhizoplaca, Stereocaulon, Tephromela, Umbilicaria</i></p> <p><i>epitoninia</i> O. Breuss: lichenicolous lichen on <i>Toninia aromatica</i></p> <p><i>grimmiae</i> (Nyl.) H. Olivier: lichenicolous lichen on <i>Candelariella</i></p> <p><i>inconnexa</i> (Nyl.) Zahlbr.: lichen, juvenile lichenicolous on <i>Acarospora, Aspicilia, Caloplaca</i></p> <p><i>inconnexa</i> var. <i>nesodes</i> Poelt &amp; Nimis: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>infestans</i> H. Magn.: lichenicolous lichen on <i>Aspicilia, Caloplaca, Lecanora</i></p> <p><i>insularis</i> Poelt: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>interna</i> Poelt &amp; Nimis: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>invadens</i> Lyngby: lichenicolous lichen on <i>Lecanora, Physcia caesia</i></p> <p><i>magni-filii</i> Poelt: lichenicolous lichen on <i>Miriquidica nigroleprosa</i></p> <p><i>necator</i> Clauz. &amp; Poelt: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>polycarpa</i> (A. Massal.) Zahlbr.: lichenicolous lichen on <i>Bagliettoa</i></p> <p><i>psoricida</i> Hansen, Poelt &amp; Søchting: lichenicolous lichen on <i>Psora rubiformis</i></p> <p><i>rinodinae-albae</i> Poelt &amp; Nimis: lichenicolous lichen on <i>Rinodina alba</i></p>	Wetmore 1999		
<i>Fulgensia</i>	<i>epiplacynthium</i> Etayo: lichenicolous lichen on <i>Placynthium filiforme</i>	Etayo 2010c		
Incertae sedis				

<i>Corticifraga</i>	<b>chugachiana</b> Zhurb.: on <i>Lobaria oregana</i> <b>fuckelii</b> (Rehm) D. Hawksw. & R. Sant.: on <i>Peltigera</i> <b>fusispora</b> Zhurb.: on <i>Peltigera aphthosa</i> and <i>P. leucophlebia</i> <b>peltigerae</b> (Fuckel) D. Hawksw. & R. Sant.: on <i>Peltigera</i> , exceptionally on <i>Solorina</i> and <i>Pseudocyphellaria</i> <b>pseudocyphellariae</b> Etayo: on <i>Pseudocyphellaria</i> <b>santessonii</b> Zhurb. & Zavarzin: on <i>Lobaria</i> and <i>Nephroma</i>	Etayo & Sancho 2008 Hawksworth & Santesson 1990 Zhurbenko 2007c Zhurbenko 2009b		
<i>Corticiruptor</i>	<b>abeloneae</b> (P. M. Jørg.) Wedin & Hafellner: on <i>Sticta</i> <b>corallinus</b> Etayo: on <i>Pseudocyphellaria</i>	Etayo & Sancho 2008 Wedin & Hafellner 1998		
<i>Nimisiostella</i>	<b>lichenicola</b> Calat., Barreno & O. E. Erikss.: on <i>Parmelia saxatilis</i>	Calatayud et al. 1997		
<i>Scoliciosporum</i>	<i>pseudocyphellariae</i> Etayo: lichenicolous lichen on <i>Pseudocyphellaria</i> <i>intrusum</i> (Th. Fr.) Hafellner: lichen, frequently lichenicolous on <i>Rhizocarpon</i> , <i>Lecidea</i> or other saxicolous lichens <i>vouauxii</i> (B. de Lesd.) Hafellner: on <i>Ramalina</i>	Etayo & Sancho 2008 Hafellner 2002 Hafellner 2004b		
<i>Umbilithecium</i>	<b>pseudocyphellariae</b> Etayo: on <i>Pseudocyphellaria</i>	Etayo & Sancho 2008		
<i>Umushamyces</i>	<b>keturnum</b> Etayo: on <i>Coccotrema cucurbitula</i>	Etayo & Sancho 2008		

## Home

	Species (lichenicolous fungi in bold; lichenicolous lichens or facultative)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
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	<i>lichenicolous fungi in italics)</i>			
<b>ASCOMYCOTA</b>				
<b>Agyriales</b>				
Agyriaceae				
<i>Hafellnera</i>	<i>parasemella</i> (Nyl.) Houmeau & Cl. Roux: lichenicolous lichen on <i>Biatora vernalis</i>	Houmeau & Roux 1984 Rambold & Triebel 1992		
<i>Rimularia</i>	<i>furvella</i> (Mudd) Hertel & Rambold: lichenicolous lichen on various lichens <i>insularis</i> (Nyl.) Rambold & Hertel: lichenicolous lichen on <i>Leanora rupicola</i>	Rambold & Triebel 1992		

## Home

	Species (lichenicolous fungi in bold; lichenicolous lichens or facultative lichenicolous fungi in italics)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Ostropales</b>				
Gomphillaceae				
<i>Gyalideopsis</i>	<b>cochlearifer</b> Lücking & Sérus.: on foliicolous Gomphillaceae <b>epithallina</b> R. Lücking: on foliicolous <i>Gyalideopsis vulgaris</i> <b>floridae</b> Etayo & Diederich: on <i>Parmotrema</i> <b>parvula</b> Kalb & Vězda: on foliicolous Pilocarpaceae <b>stereocaulicola</b> Etayo: on <i>Stereocaulon</i>	Etayo 2010b Etayo & Diederich 2001 Lücking 1997 Lücking & Sérusiaux 1998		
Odontotremataceae				
<i>Odontotrema</i>	<b>bryoriae</b> Diederich & Etayo: on <i>Bryoria</i> <b>cuculare</b> (Norman) Diederich: on	Diederich et al. 2002 Etayo & Sancho 2008 Zhurbenko 2009b		

	<p><i>Parmeliopsis</i></p> <p><b>figulinum</b> (Norman) Diederich: on <i>Lecanora polytropa</i></p> <p><b>intermedium</b> Diederich, Zhurb. &amp; Etayo: on <i>Thamnolia vermicularis</i></p> <p><b>japewiae</b> Zhurb. &amp; Diederich: on <i>Japewia tornoënsis</i></p> <p><b>lecanorae</b> Diederich &amp; Marson: on <i>Lecanora melaneliae</i> Diederich &amp; Zhurb.: on <i>Melanelia hepatizon</i> and <i>Melanohalea olivacea</i></p> <p><b>navarinoi</b> Etayo: on <i>Micarea magellanica</i></p> <p><b>ochrolechia</b> Diederich, Holien &amp; Zhurb.: on <i>Ochrolechia</i></p> <p><b>pertusariae</b> Etayo, Diederich &amp; Coppins: on <i>Pertusaria hymenea</i></p> <p><b>rhizocarpicola</b> Zhurb., Diederich &amp; Himelbrant: on <i>Rhizocarpon</i> gr. <i>geographicum</i></p> <p><b>santessonii</b> Zhurb., Etayo &amp; Diederich on <i>Thamnolia vermicularis</i></p> <p><b>sipei</b> (Grumann) Diederich: on <i>Letharia thamnoliae</i> Zhurb., Diederich &amp; Etayo: on <i>Thamnolia</i></p> <p><b>sp. 1:</b> on <i>Mycoblastus</i></p> <p><b>sp. 2:</b> on <i>Usnea</i></p> <p><b>sp. 3:</b> on <i>Lecanora</i></p>			
<i>Paraethariicola</i>	<b>aspiciliae</b> Calat., Etayo & Diederich: on <i>Aspicilia</i>	Calatayud et al. 2001a		
<i>Spirographa</i>	<b>fusisporella</b> (Nyl.) Zahlbr.: on diverse lichens	Diederich 2004 Sherwood-Pike 1987		
<i>Thamnogalla</i>	<b>crombiei</b> (Mudd) D. Hawksw.: on <i>Thamnolia</i>	Hoffmann & Hafellner 2000		
Stictidaceae				

<i>Nanostictis</i>	<b>christiansenii</b> Etayo: on <i>Lobaria pulmonaria</i> <b>nephromatis</b> Etayo: on <i>Nephroma antarcticum</i> <b>peltigerae</b> M.S. Christ.: on <i>Peltigera</i> <b>pluriseptata</b> Etayo: on <i>Lobaria</i> gr. <i>pallida</i> <b>pseudocyphellariae</b> Sherwood: on <i>Pseudocyphellaria</i> <b>stictae</b> Etayo: on <i>Sticta</i>	Etayo 2002a Etayo & Diederich 1996b Etayo & Sancho 2008		
<i>Stictis</i> s.l.	<b>cladoniae</b> (Rehm) Sacc.: on <i>Cladonia</i>	Sherwood 1977		
Thelotremataceae				
<i>Diploschistes</i>	<i>bisporus</i> (Bagl.) Steiner: lichen, facultative lichenicolous on <i>Rhizocarpon geographicum</i> s.l. <i>caesioplumbeus</i> (Nyl.) Vainio: lichen, facultative lichenicolous on <i>Lecanora gangaleoides</i> <i>euganeus</i> (A. Massal.) Steiner: lichen, facultative lichenicolous on <i>Ochrolechia parella</i> <b>muscorum</b> (Scop.) R. Sant.: lichenicolous on <i>Cladonia</i> (rarely <i>Stereocaulon</i> ) when young, later an independent lichen	Lumbsch 1989		

## Home

	Species (lichenicolous fungi in bold; lichenicolous lichens or facultative lichenicolous fungi in italics)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Helotiales</b>				
Dermateaceae				

<i>Mollisia</i>	<b>collematis</b> Boud.: on <i>Collema</i>	Clauzade et al. 1989 Vouaux 1914		
<i>Niptera</i>	<b>lichenicola</b> (Speg.) Sacc.: on <i>Flavoparmelia caperata</i> <b>microscopica</b> (Crouan) Vouaux: on <i>Placynthiella uliginosa</i>	Clauzade et al. 1989 Vouaux 1914		
Helotiaceae				
<i>Bryoscyphus</i>	<b>lichenicola</b> Alstrup & M. S. Cole: on <i>Cladonia</i> cf. <i>pyxidata</i>	Alstrup & Cole 1998		
<i>Unguiculariopsis</i>	<b>acrocordiae</b> (Diederich) Diederich & Etayo: on <i>Acrocordia gemmata</i> <b>ahtii</b> D. Hawksw., D. J. Galloway & S. Y. Kondr.: on <i>Pseudocyphellaria</i> <b>cribriformis</b> (Norman) Alstrup & D. Hawksw.: on <i>Pertusaria dactylina</i> <b>damingshanica</b> W. Y. Zhuang: on unidentified lichen on bamboo <b>hispidula</b> Etayo: on <i>Psoroma hispidulum</i> <b>lesdainii</b> (Vouaux) Etayo & Diederich: on <i>Lecanora saligna</i> <b>lettaui</b> (Grummann) Coppins: on <i>Evernia prunastri</i> <b>lobariellum</b> S. Y. Kondr. & D. J. Galloway: on <i>Lobaria</i> and <i>Durietzia</i> <b>lucaniae</b> Brackel: on <i>Lecidella elaeochroma</i> <b>macrocarpa</b> Etayo: on <i>Pseudocyphellaria</i> <b>manriquei</b> Etayo: on <i>Lobaria pulmonaria</i> <b>refractiva</b> (Coppins) Coppins: on <i>Bilimbia</i> <b>thallophila</b> (P. Karst) W. Y. Zhuang: on <i>Lecanora</i> <b>trieregia</b> S. Y. Kondr. & D. J. Galloway: on <i>Sticta</i> [see also <i>Llimoniella muralicola</i> Halici: on	Alstrup & Hawksworth 1990 Brackel 2011 Coppins 1988 Diederich & Etayo 2000 Etayo & Diederich 1996b Etayo & Sancho 2008 Kondratyuk & Galloway 1995a Kondratyuk & Galloway 1995b Kondratyuk et al. 1994 Zhuang 2000		

	<i>Lecanora muralis</i> ]			
Hyaloscyphaceae				
<i>Calycina</i>	<b>ucrainica</b> (S. Y. Kondr.) S. Y. Kondr.: on <i>Cladonia</i>	Kondratyuk & Galloway 1995a Oksner 2010		
<i>Lachnella</i>	<b>tetraspora</b> (Henn.) Vouaux: on <i>Physcia integrata</i>	Clauzade et al. 1989 Vouaux 1914		
<i>Pezizella</i> auct.	<b>epithallina</b> (W. Phillips & Plowr.) Sacc.: on <i>Peltigera stictae</i> Etayo: on <i>Sticta</i>	Etayo 2002a Hawksworth 1980b		
<i>Polydesmia</i>	<b>lichenis</b> Huhtinen & R. Sant.: on <i>Peltigera</i>	Huhtinen & Santesson 1997		
<i>Protounguicularia</i>	<b>fasciculata</b> (Etayo) Etayo: on <i>Ramalina stenospora</i> <b>nephromatis</b> (Zhurb. & Zavarzin) Huhtinen, D. Hawksw. & Ihlen: on <i>Nephroma</i>	Etayo 2010b Etayo & Triebel 2010 Huhtinen et al. 2008 Zhurbenko 2007a		
Incertae sedis				
<i>Cecidioskyttea</i>	<b>osorioi</b> Etayo: on <i>Concamerella fistulosa</i>	Etayo & Osorio 2004		
<i>Chloroepilichen</i>	<b>rolfii</b> Etayo: on <i>Lobaria</i>	Etayo 2010b		
<i>Echinodiscus</i>	<b>kozhevnikovii</b> Zhurb.: on <i>Cetraria lesdainii (Vouaux) Etayo &amp; Diederich: on <i>Lecania</i></i>	Etayo & Diederich 2000 Zhurbenko 2009a		
<i>Geltingia</i>	<b>associata</b> (Th. Fr.) Alstrup & D. Hawksw.: on <i>Ochrolechia, Pertusaria</i> and <i>Thamnolia</i>	Alstrup & Hawksworth 1990 Diederich et al. 2010		
<i>Hyalopeziza</i>	<b>rapax</b> Huhtinen: on <i>Pseudocyphellaria</i>	Huhtinen et al. 2008		
<i>Llimoniella</i>	<b>acarosporicola</b> (Kocourk. & K. Knudsen) Diederich & Ertz: on <i>Acarospora socialis</i> <b>adnata</b> Hafellner & Nav.-Ros.: on <i>Placidium cinnabariniae</i> Pérez-Ortega, Etayo & T. Sprib.: on <i>Ramboldia cinnabarina</i> <b>fuscatae</b> Hafellner & Obermayer: on <i>Acarospora fuscata</i> <b>groenlandiae</b> (Alstrup & D, Hawksw.) Triebel & Hafellner: on <i>Caloplaca</i> and	Diederich & Etayo 2000 Diederich et al. 2010 Etayo 2010b Pérez-Ortega et al. 2011		

	<p><i>Fulgensia</i></p> <p><b>heppiae</b> (Nav.-Ros., Hladun &amp; Llimona) Diederich &amp; Ertz: on <i>Heppia</i></p> <p><b>muralicola</b> Halici: on <i>Lecanora muralis</i> (probably belongs to <i>Unguiculariopsis</i>)</p> <p><b>pertusariae</b> Diederich &amp; Etayo: on <i>Pertusaria glaucomela</i> and <i>P. ophthalmiza</i></p> <p><b>phaeophysciae</b> Diederich, Ertz &amp; Etayo: on <i>Phaeophyscia</i></p> <p><b>placomaroneae</b> Etayo &amp; Diederich: on <i>Placomaronea candelarioides</i></p> <p><b>placopsidis</b> Diederich &amp; Fryday: on <i>Placopsis</i></p> <p><b>pyrenulae</b> Diederich &amp; Etayo: on <i>Pyrenula</i></p> <p><b>ramalinae</b> (Müll. Arg.) Etayo &amp; Diederich: on <i>Ramalina celastri</i> and <i>R. unilateralis</i></p> <p><b>terricola</b> (Arnold) M. Schultz, Diederich &amp; Ertz: on <i>Epiphloea byssina</i></p> <p><b>scabridula</b> (Müll. Arg.) Nav.-Ros. &amp; Hafellner: on <i>Acarospora nodulosa</i> and <i>A.</i> <i>placodiiformis</i></p> <p><b>vinosa</b> (Holien &amp; Triebel) Diederich &amp; Etayo: on <i>Ochrolechia</i> and <i>Pertusaria</i> cf. <i>borealis</i></p>			
<i>Phaeopyxis</i>	<p><b>australis</b> Rambold &amp; Triebel: on <i>Paraporpidia</i></p> <p><b>muscigenae</b> Alstrup &amp; E. S. Hansen: on <i>Physconia</i></p> <p><b>punctum</b> (A. Massal.) Rambold, Triebel &amp; Coppins: on <i>Cladonia</i></p> <p><b>varia</b> Coppins, Rambold &amp; Triebel: on <i>Trapeliopsis</i></p>	Alstrup & Hansen 2001 Rambold & Triebel 1990		
<i>Pleoscutula</i>	<p><b>arsenii</b> Vouaux: on <i>Heterodermia</i></p> <p><b>hypotrachynae</b> Etayo &amp; Diederich: on</p>	Etayo 2002a Hafellner 1982b		

	<i>Hypotrachyna</i>			
<i>Rhymbocarpus</i>	<p><b>aggregatus</b> Etayo &amp; Diederich: on <i>Buellia griseovirens</i></p> <p><b>boomii</b> Etayo &amp; Diederich: on <i>Dirina ceratoniae</i></p> <p><b>cruciatus</b> (Sherwood, D. Hawksw. &amp; Coppins) Etayo &amp; Diederich: on <i>Diploicia canescens</i></p> <p><b>ericetorum</b> (Körb.) Etayo, Diederich &amp; Ertz: on <i>Dibaeis baeomyces</i></p> <p><b>fuscoatrae</b> (Hafellner) Diederich &amp; Etayo: on <i>Lecidea fuscoatra</i></p> <p><b>geographici</b> (J. Steiner) Vouaux: on <i>Rhizocarpon</i></p> <p><b>makarovae</b> Diederich &amp; Etayo: on <i>Porpidia</i></p> <p><b>neglectus</b> (Vain.) Diederich &amp; Etayo: on the <i>Lepraria neglecta</i> group</p> <p><b>pertusariae</b> Diederich, Zhurb. &amp; Etayo: on <i>Pertusaria panyrga</i></p> <p><b>pubescens</b> (Etayo &amp; Diederich) Diederich &amp; Etayo: on <i>Lepraria</i></p> <p><b>rocellae</b> (Etayo, Paz-Bermúdez &amp; Diederich) Etayo, Diederich &amp; Ertz: on <i>Rocella</i></p> <p><b>stereocaulorum</b> (Alstrup &amp; D. Hawksw.) Etayo &amp; Diederich: on <i>Stereocaulon</i></p>	<p>Diederich &amp; Etayo 2000</p> <p>Diederich et al. 2010</p> <p>Etayo &amp; Diederich 2011</p>		
<i>Skyttea</i>	<p><b>anzia</b> Etayo &amp; Diederich: on <i>Anzia</i></p> <p><b>arenicola</b> Alstrup &amp; E. S. Hansen: probably not a <i>Skyttea</i> and not lichenicolous</p> <p><b>buelliae</b> Sherwood, D. Hawksw. &amp; Coppins: on <i>Buellia punctata</i></p> <p><b>caesii</b> Diederich &amp; Etayo: on <i>Mycoblastus</i> (incl. <i>M. caesius</i>)</p> <p><b>carbonea</b> Diederich &amp; Etayo: on <i>Carbonea</i></p>	<p>Alstrup &amp; Hansen 2001</p> <p>Diederich &amp; Etayo 2000</p> <p>Diederich &amp; Etayo 2004</p> <p>Etayo 2002a</p> <p>Etayo 2010c</p> <p>Etayo &amp; Sancho 2008</p> <p>Hafellner 2000</p> <p>Navarro-Rosinès &amp; Muñiz 2009</p>	<b>nitschkei</b> : Culture obtained by Crittenden et al. (1995)	

*montevidensis*

**cismonicae** Hafellner: on *Loxospora*

**dacampiae** Zhurb.: on *Dacampia hookeri*

**elachistophora** (Nyl.) Sherwood & D.

Hawksw.: on cf. *Tylothallis biformigera*

**fusispora** Sherwood, D. Hawksw. & Coppins:

on *Ochrolechia*

**gossypina** Etayo: on *Phlyctis argena*

**gregaria** Sherwood, D. Hawksw. & Coppins:

on *Mycoblastus fucatus*

**hawksworthii** Diederich: on *Verrucaria*

**heterochroae** Nav.-Ros. & Muñiz: on

*Pertusaria heterochroa*

**lecanorae** Diederich & Etayo: on *Lecanora*

**mayrhoferi** Diederich & Etayo: on

*Pertusaria melanospora*

**megalosporae** Etayo & Diederich: on

*Megalospora tuberculosa*

**nitschkei** (Körb.) Sherwood, D. Hawksw. &

Coppins: on *Thelotrema lepadinum*

**pertusariicola** Diederich & Etayo: on

corticolous *Pertusaria*

**pyrenulae** Diederich, Etayo & Coppins: on

*Pyrenula*

**radiatilis** (Tuck.) R. Sant., Etayo &

Diederich: on cf. *Loxospora pustulata*

**richardsonii** Iturr. & D. Hawksw.: on an

unidentified lichen

**spinosa** D. Hawksw. & Coppins: on

*Verrucaria nigrescens*

**tavaresae** R. Sant., Etayo & Diederich: on

*Pyrrhospora* cf. *quernea*

**tephromelarum** Kalb & Hafellner: on

	<i>Tephromela</i> <b>thelotrematis</b> Diederich & Etayo: on <i>Thelotrema lepadinum</i> <b>violacea</b> Etayo: on <i>Tephromela</i> <b>viridis</b> D. Hawksw. & Coppins: on cf. <i>Micarea denigrata</i>			
<i>Skyttella</i>	<b>mulleri</b> (Willey) D. Hawksw. & R. Sant.: on <i>Peltigera</i>	Hawksworth & Santesson 1988		

## Home

	Species (lichenicolous fungi in bold; lichenicolous lichens or facultative lichenicolous fungi in italics)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Phyllachorales</b>				
Phyllachoraceae				
<i>Lichenochora</i>	<b>acutispora</b> Etayo: on <i>Fuscopannaria</i> <i>magellanica</i> <b>aipoliae</b> Etayo, Nav.-Ros. & Coppins: on <i>Physcia aipolia</i> <b>aprica</b> Hafellner & Nik. Hoffm.: on <i>Aspicilia</i> <b>atrans</b> Halici, K. Knudsen & Candan: on <i>Psora decipiens</i> <b>bellemeri</b> Nav.-Ros., Cl. Roux & Diederich: on <i>Menegazzia</i> <b>clauzadei</b> Nav.-Ros., Cl. Roux & Llimona: on <i>Squamarina</i> <b>coarctatae</b> (B. de Lesd.) Hafellner & F. Berger: on <i>Trapelia</i> <b>collematum</b> Nik. Hoffm. & Hafellner: on	Aptroot et al. 1997 Calatayud et al. 2000 Etayo 2010c Etayo 2011 Etayo & Navarro-Rosinés 2008 Etayo & Sancho 2008 Hafellner 1989 Hafellner & Berger 2000 Hoffmann & Hafellner 2000 Navarro-Rosinés et al. 1994 Navarro-Rosinés et al. 1998a Navarro-Rosinés et al. 1998c Navarro-Rosinés & Etayo 2001 Navrotskaya et al. 1996 Roux & Triebel 1994 Triebel et al. 1991		

*Collema ceraniscum*

**constrictella** (Müll. Arg.) Hafellner: on

*Fulgensia bracteata*

**coppinsii** Etayo & Nav.-Ros.: on

*Protopannaria pezizoides*

**elegantis** Hafellner: on *Xanthoria elegans*

**epidesertorum** Nav.-Ros.: on *Fulgensia*

*desertorum*

**epifulgens** Nav.-Ros. & Cl. Roux: on

*Fulgensia fulgens*

**epimarmorata** Nav.-Ros.: on *Caloplaca*

*marmorata*

**epinashii** Nav.-Ros. & Etayo: on *Caloplaca*

*nashii*

**gahavisukae** Diederich: on ?*Graphis*

**galligena** R. Sant. & Hafellner: on *Physcia*

**heppiae** Cl. Roux: on *Heppia lutosa*

**hyperphysciae** Etayo: on *Hyperphyscia*

*adglutinata*

**inconspicua** Hafellner: on *Mycobilimbia*

*berengeriana*

**lecidellae** Boqueras & Nav.-Ros.: on

*Lecidella elaeochroma*

**lepidiotae** (Anzi) Etayo & Nav.-Ros.: on

*Fuscopannaria praetermissa*

**mediterraneae** Calat., Nav.-Ros. & E.

Calvo: on *Fuscopannaria mediterranea*

**monegrina** Etayo: on terricolous *Polyblastia*

**obscuroides** (Linds.) Triebel & Rambold: on

*Phaeophyscia*, more rarely *Physcia*

**paucispora** Etayo & Nav.-Ros.: on *Bilimbia*

*sabuletorum*

**polycoccoides** Hafellner & R. Sant.: on

	<i>Physcia tribacia</i> <b>pyrenodesmiae</b> Nav.-Ros. & Cl. Roux: on <i>Caloplaca cf. variabilis</i> <b>sinapispermae</b> Etayo & Nav.-Ros.: on <i>Caloplaca sinapisperma</i> <b>thorii</b> Zhurb.: on <i>Aspicilia moenium</i> <b>verrucicola</b> (Wedd.) Nik. Hoffm. & Hafellner: on <i>Aspicilia calcarea</i> , <i>A. cinerea</i> and <i>A. contorta</i> <b>wasseri</b> S.Y. Kondr.: on <i>Caloplaca</i> <b>weillii</b> (Werner) Hafellner & R. Sant.: on <i>Physconia</i> <b>xanthoriae</b> Triebel & Rambold: on <i>Xanthoria</i> <i>elegans</i> (and <i>Caloplaca</i> ?)			
<b>Trichosphaeriales</b>				
Trichosphaeriaceae				
<i>Trichosphaeria</i>	<b>lichenum</b> P. Karst. & Hariot: on <i>Peltigera</i>	Clauzade et al. 1989 Hawksworth 1980b		
<b>Xylariales</b>				
Hyponectriaceae				
<i>Charonectria</i>	<b>amabilis</b> Lowen & D. Hawksw.: on <i>Phaeorrhiza</i>	Rossmann et al. 1999		
Xylariaceae				
<i>Anthostomella</i>	<b>apogyra</b> (Nyl.) Saccardo & D. Saccardo: on <i>Umbilicaria</i>	Clauzade et al. 1989 Matzer & Hafellner 1990		

## Home

	Species <b>(lichenicolous fungi in bold;</b> <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics)</i>	<a href="#">Significant literature</a>	Cultures (with accession numbers when known; <a href="#">culture collection</a> <a href="#">links</a> )	Sequences (with accession numbers)
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<b>ASCOMYCOTA</b>				
<b>Hypocreales</b>				
Bionectriaceae				
<i>Atronectria</i>	<b>magellanica</b> Etayo: on <i>Pseudocyphellaria</i> and <i>Nephroma</i>	Etayo & Sancho 2008		
<i>Globonectria</i>	<b>cochensis</b> Etayo: on <i>Lobaria pallida</i>	Etayo 2002a		
<i>Nectriopsis</i>	<p><b>Nectria brutia</b> Diederich &amp; Puntillo: on <i>Collema</i></p> <p><b>cladoniicola</b> M. S. Cole &amp; D. Hawksw.: on <i>Cladonia</i></p> <p><b>coccocarpiae</b> Diederich: on <i>Coccocarpia</i></p> <p><b>collematis</b> Diederich: on <i>Collema</i></p> <p><b>guamuesii</b> Etayo: on <i>Sticta</i></p> <p><b>hirta</b> Etayo: on <i>Pertusaria albescens</i> and <i>P. pertusa</i></p> <p><b>heterodermiae</b> Etayo: on <i>Heterodermia</i></p> <p><b>hirta</b> Etayo: on <i>Pertusaria</i></p> <p><b>indigenis</b> (Arnold) Diederich &amp; Schroers: on perithecioid lichens, often near water</p> <p><b>lecanodes</b> (Ces.) Diederich &amp; Schroers: on cyanobacterial macrolichens, mainly <i>Lobaria</i>, <i>Peltigera</i> and <i>Pseudocyphellaria</i>, also on <i>Collema</i> and <i>Leptogium</i></p> <p><b>leptogii</b> Diederich: on <i>Leptogium</i></p> <p><b>lichenophila</b> (Speg.) Etayo: on <i>Heterodermia</i></p> <p><b>micareae</b> Diederich, van den Boom &amp; Ernst: on <i>Micarea</i></p> <p><i>mindoensis</i> (Petrak) (Petr.) Samuels: facultative lichenicolous on <i>Coenogonium</i></p> <p><b>peruvianus</b> Etayo &amp; R. Sant.: on <i>Dictyonema</i> and <i>Coccocarpia</i></p> <p><b>physciicola</b> D. Hawksw. &amp; Earl.-Benn.: on</p>	<p>Alstrup 1996</p> <p>Aptroot et al. 1997</p> <p>Cole &amp; Hawksworth 2001</p> <p>Diederich &amp; Puntillo 1995</p> <p>Earland-Bennett et al. 2006</p> <p>Etayo 2002a</p> <p>Etayo 2010a</p> <p>Etayo &amp; Sancho 2008</p> <p>Matzer 1996</p> <p>Samuels 1988</p> <p>Sérusiaux et al. 1999</p>	<p><b>lecanodes</b>: ATCC MYA-3179</p> <p><b>lecanodes</b>: CBS 102482</p>	

	<p><i>Phyrcia stellaris</i></p> <p><b>porinicola</b> Samuels: on foliicolous <i>Porina silvaustralis</i> Etayo: on <i>Pseudocyphellaria tatrensis</i> (Alstrup) Lisická &amp; Alstrup: on <i>Thelidium</i></p>			
<i>Ovicuculispora</i>	<p><b>macrospora</b> Etayo: on sterile saxicolous crust (Gomphillaceae?)</p> <p><b>parmeliae</b> (Berk. &amp; Curt.) Etayo: on <i>Erioderma</i>, <i>Graphis</i>, <i>Heterodermia</i>, <i>Parmelia</i>, <i>Pertusaria</i>, <i>Punctelia</i>, <i>Sticta</i></p>	Etayo 2010b	<p><b>parmeliae</b>: ATCC 200561</p> <p><b>parmeliae</b>: ATCC 200825</p>	<p><b>parmeliae</b> (ATCC 200561): nrSSU: <a href="#">AF289657</a></p>
<i>Paranectria</i>	<p><b>affinis</b> (Grev.) Sacc.: on <i>Ephebe pubescens</i></p> <p><b>alstrupii</b> Zhurb.: on <i>Psoroma hypnorum</i></p> <p><b>oropensis</b> (Rabenh.) D. Hawksw. &amp; Piroz.: on various lichens</p> <p><b>superba</b> D. Hawksw.: on <i>Peltigera</i></p>	<p>Clauzade et al. 1989</p> <p>Hawksworth 1982a</p> <p>Rossmann et al. 1999</p> <p>Zhurbenko 2009d</p>	<b>oropensis</b> : CBS 115018	
<i>Pronectria</i>	<p><b>angulospora</b> Etayo: on <i>Heterodermia casaressii</i> Etayo: on <i>Evernia prunastri</i></p> <p><b>collematis</b> Etayo &amp; Brackel: on <i>Collema dealbans</i> (Müll. Arg.) Etayo &amp; Breuss: on <i>Endocarpon dillmaniae</i> Zhurb.: on <i>Catapyrenium cinereum</i></p> <p><b>echinulata</b> Lowen: on <i>Phyrcia erythrinella</i> (Nyl.) Lowen: on <i>Peltigera fissuriprodiens</i> Etayo: on <i>Lobaria fragmospora</i> Etayo: on <i>Usnea hymeniicola</i> Etayo: on <i>Collema invisibilis</i> Etayo: on <i>Nephroma antarcticum</i></p> <p><b>lecideicola</b> Zhurb.: on <i>Lecidea ramulosa</i></p> <p><b>leptogii</b> Etayo: on <i>Leptogium microspora</i> Etayo: on <i>Lobaria pallida</i></p>	<p>Brackel &amp; Etayo 2010</p> <p>Etayo 1998</p> <p>Etayo 2001</p> <p>Etayo 2002a</p> <p>Etayo 2010b</p> <p>Etayo 2010c</p> <p>Etayo &amp; Breuss 1996</p> <p>Etayo &amp; Diederich 1996b</p> <p>Etayo &amp; Sancho 2008</p> <p>Etayo &amp; Triebel 2010</p> <p>López de Silanes et al. 2009</p> <p>Lowen 1995</p> <p>Lowen &amp; Diederich 1990</p> <p>Lowen &amp; Hawksworth 1986</p> <p>Motiejunaite &amp; Kukwa 2008</p> <p>Rossmann et al. 1999</p> <p>Zhurbenko 2007b</p> <p>Zhurbenko 2009d</p> <p>Zhurbenko &amp; Alstrup 2004</p> <p>Zhurbenko et al. 2005</p>	<p><b>oligospora</b>: Culture RL929-92 obtained by Lowen (1995)</p> <p><b>robergei</b>: CBS 128021</p> <p><b>santessonii</b>: ATCC 62531 (listed as <i>Nectriella santessonii</i>)</p>	

**minuta** Motiej. & Kukwa: on *Cladonia* subg.  
*Cladina*  
**occulta** Etayo: on *Usnea*  
**oligospora** Lowen & Rogersen: on *Punctelia*  
**oligospora** var. **octospora** Etayo: on  
*Punctelia*  
**parmotrematis** Etayo: on *Parmotrema*  
**pertusariicola** Lowen: on *Pertusaria*  
**pilosa** Etayo & López Silanes: on *Collema*  
**protopannariae** Zhurb.: on *Protopannaria*  
*pezizoides*  
**robergei** (Mont. & Desm.) Lowen: on  
*Peltigera*  
**rolfiana** Etayo: on *Solorina*  
**roseopunctata** Etayo: on *Hypotrachyna*  
**santessonii** (Lowen & D. Hawksw.) Lowen:  
on *Anaptychia runcinata*  
**septemseptata** Etayo: on *Melanelixia*  
**sticticola** Etayo: on *Sticta*  
**subimperspicua** (Speg.) Lowen: on  
*Punctelia*  
**tenacis** (Vouaux) Lowen: on *Collema*  
**tenuispora** (D. Hawksw.) Lowen: on  
*Peltigera*  
**terrestris** Lowen & Diederich: on *Thrombium*  
*epigaeum*  
**tibellii** Zhurb.: on *Cladonia*  
**tincta** (Fuckel) Lowen: on *Anaptychia ciliaris*  
**rolfiana** Etayo: on *Solorina*  
**toninia** Etayo: on *Toninia sedifolia*  
**verrucariae** (Vouaux) Lowen: on *Verrucaria*  
**walkerorum** Zhurb.: on *Ochrolechia*

	<b>xanthoriae</b> Lowen & Diederich: on <i>Xanthoriae</i>			
<i>Trichonectria</i>	<b>anisospora</b> (Lowen) van den Boom & Diederich: on <i>Hypogymnia</i> <b>australis</b> Etayo: on <i>Usnea</i> <b>cladoniicola</b> (Alstrup & Svane) Alstrup: on <i>Cladonia</i> <b>hirta</b> (A. Bolxam) Petch: on corticolous lichens <b>hypotrachynae</b> Etayo: on <i>Hypotrachyna</i> <b>leptogiicola</b> Etayo: on <i>Leptogium</i> <b>pertusariae</b> Etayo & van den Boom: on <i>Pertusaria</i> <b>rubefaciens</b> (Ellis & Everh.) Diederich & Schroers: on <i>Parmelia</i> s.lat. [anamorph: <i>Acremonium rhabdosporum</i> ] <b>setadpressa</b> Etayo: on <i>Lobaria</i> <b>usneicola</b> Etayo: on <i>Usnea</i>	Alstrup & Svane 1998 Etayo 2001 Etayo 2002a Etayo & Sancho 2008 Etayo & van den Boom 2005 Sérusiaux et al. 1999 Hawksworth 1978b Rossman et al. 1999	<b>rubefaciens</b> (see anamorph <i>Acremonium rhabdosporum</i> under Anamorphic Ascomycota)	
Ceratostomataceae				
<i>Sypastospora</i>	<b>cladoniae</b> Etayo: on <i>Cladonia convoluta</i>	Etayo 2008		
Clavicipitaceae				
<i>Neobarya</i>	<b>ciliaris</b> Etayo: on <i>Heterodermia</i> <b>darwiniana</b> Etayo: on <i>Nephroma antarcticum</i> <b>lichenophila</b> (Ferd. & Winge) Lowen & Samuels: on <i>Cladonia</i> <b>peltigerae</b> Lowen, Boqueras & Gomez-Bolea: on <i>Peltigera</i> <b>usneae</b> Etayo: on <i>Usnea</i>	Candoussau et al. 2007 Etayo 2002a Etayo & Sancho 2008		
Nectriaceae				

<i>Xenonectriella</i>	<b>aurantiaca</b> Etayo: on <i>Pseudocyphellaria</i> <b>humilis</b> Etayo: on <i>Pseudocyphellaria</i> <b>leptaleae</b> (J. Steiner) Rossman & Lowen: on <i>Physcia</i> and <i>Physconia</i> <b>leptaleoides</b> (Etayo) Etayo: on <i>Leptogium</i> <b>lutescens</b> (Rehm) Weese: on <i>Solorina</i> <b>ornamentata</b> (D. Hawksw.) Rossman: on <i>Peltigera</i> <b>rosea</b> Etayo: on <i>Pannaria</i> <b>streimanii</b> (S. Y. Kondr., Coppins & D. J. Galloway) Rossman: on <i>Lobaria</i> and <i>Sticta</i>	Etayo 2002a Etayo & Sancho 2008 Etayo & Triebel 2010 Rossman et al. 1999		
Niessliaceae				
<i>Niesslia</i>	<b>cladoniicola</b> D. Hawksw. & W. Gams: on <i>Cladonia</i> <b>globospora</b> Etayo: on <i>Dictyonema</i> <b>kununguakii</b> Alstrup & E. S. Hansen: on <i>Arthrorhaphis alpina</i> <b>lobariae</b> Etayo & Diederich: on <i>Lobaria</i> <b>peltigericola</b> (D. Hawksw.) Etayo: on <i>Peltigera</i> <b>pseudocyphellariae</b> Etayo & Diederich: on <i>Pseudocyphellaria</i> <b>robusta</b> Tretiach: on <i>Tephromela grumosa</i> <b>schyzospora</b> Etayo: on <i>Hypotrachyna</i> <b>stictarum</b> (Nannf. & R. Sant.) R. Sant. & Tretiach: on <i>Sticta</i> <b>tatjanae</b> (S. Y. Kondr.) Etayo: on <i>Pseudocyphellaria</i> <b>tetrahedrospora</b> Etayo: on <i>Dichosporidium</i> <b>yaganae</b> Etayo: on <i>Nephroma antarcticum</i>	Alstrup & Hansen 2001 Etayo 2000 Etayo 2002a Etayo & Diederich 1996b Etayo & Sancho 2008 Hawksworth 1975b Hawksworth 1979a Tretiach 2002	<b>cladoniicola</b> : CBS 960.73	
Incertae sedis				
<i>Roselliniella</i>	<b>africana</b> Diederich: on <i>Usnea</i>	Aptroot et al. 1997		<b>atlantica</b> : nrLSU: GQ888763

**atlantica** Matzer & Hafellner: on  
*Xanthoparmelia*, *Hypotrachyna* and  
*Platismatia*  
**cladoniae** (Anzi) Matzer & Hafellner: on  
*Cladonia*  
**coccocarpiae** (Pat.) Matzer & R. Sant.: on  
*Degelia*  
**epiphylla** Matzer & Hafellner: on foliicolous  
*Sporopodium*  
**eriodermicola** Matzer & R. Sant.: on  
*Erioderma tomentosum*  
**euparmeliicola** Millanes & D. Hawksw.: on  
*Parmelia* s.s.  
**heterodeae** Matzer & Hafellner: on  
*Heterodea muelleri*  
**microthelia** (Wallr.) Nik. Hoffm. &  
Hafellner: on *Trapelia*  
**nephromatis** (Crouan) Matzer & Hafellner:  
on *Nephroma*  
**oxyspora** Matzer & R. Sant.: on *Coccocarpia*  
**pannariae** Matzer & Hafellner: on  
*Protopannaria pzizoides*  
**papuana** Diederich: on *Usnea*  
**peltigericola** D. Hawksw. & Miadl.: on  
*Peltigera*  
**ramirezii** Etayo: on *Lobaria*  
**stereocaulorum** Zhurb., Kukwa & Oset: on  
*Stereocaulon*  
**stictae** Etayo: on *Sticta*

Etayo 2002a  
Hawksworth & Miadlikowska  
1997a  
Hawksworth et al. 2010  
Hoffmann & Hafellner 2000  
Matzer & Hafellner 1990  
Zhurbenko et al. 2009

**R. sp.** (DLH 2009a): nrLSU:  
[GQ888764](#)

[Home](#)

	Species (lichenicolous fungi in bold; lichenicolous lichens or facultative lichenicolous fungi in italics)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Coniochaetales</b>				
Coniochaetaceae				
<i>Coniochaeta</i>	<i>ligniaria</i> (Grev.) Masee: facultative lichenicolous on <i>Diploschistes diacapsis</i>	Etayo 2008		
<b>Sordariales</b>				
Chaetosphaeriaceae				
<i>Melanopsamma</i>	<b>lettauiana</b> (Keissl.) Vouaux: on saxicolous, crustose lichens	Clauzade et al. 1989		
Nitschkiaceae				
<i>Acanthonitschkea</i>	<b>peltigericola</b> (Alstrup & Olech) O. E. Erikss. & R. Sant.: on <i>Peltigera</i>	Alstrup & Olech 1993		
<i>Lasiosphaeriopsis</i>	<b>cephalodiorum</b> (Rostr.) Alstrup: on <i>Placopsis</i> <b>christiansenii</b> Alstrup & D. Hawksw.: on <i>Porpidia tuberculosa</i> [=? <i>L. supersparsa</i> ] <b>lecanorae</b> Pérez-Ortega & Halici: on <i>Lecanora polytropa</i> <b>pilophori</b> Zhurb. & Triebel: on <i>Pilophorus</i> <b>salisburyi</b> D. Hawksw. & Sivan.: on <i>Peltigera</i> <b>stereocaulicola</b> (Linds.) O. E. Erikss. & R. Sant.: on <i>Stereocaulon</i> <b>supersparsa</b> (Zopf) Triebel: on <i>Porpidia</i>	Alstrup et al. 1994 Alstrup & Hawksworth 1990 Eriksson & Santesson 1986 Hawksworth 1980b Pérez-Ortega & Halici 2008 Triebel 1989 Zhurbenko & Triebel 2005		
<i>Rhagadostoma</i>	<b>boleae</b> Nav.-Ros. & Hladun: on <i>Lecania</i> <b>brevisporum</b> (Nav.-Ros. & Hladun) Nav.- Ros.: on <i>Peltigera</i> and <i>Solorina</i> <b>collematum</b> Etayo & Nav.-Ros.: on	Etayo & Sancho 2008 Navarro-Rosinés et al. 1999 Navarro-Rosinés & Hladun 1994		

	<b>corrugatum</b> Körb.: on <b>lichenicola</b> (De Not.) Keissl.: on <b>pannariae</b> Etayo: on <i>Pannaria</i> <b>rugosum</b> Nav.-Ros. & Hladun: on <i>Verrucaria nigrescens</i> <b>verrucariarum</b> Nav.-Ros. & Hladun: on <i>Verrucaria</i>			
<i>Rhagadostomella</i>	<b>gregaria</b> Etayo: on <i>Sticta</i>	Etayo 2002a		
Incertae sedis				
<i>Globosphaeria</i>	<b>jamesii</b> D. Hawksw.: on <i>Normandina pulchella</i>	Hawksworth 1990b		
<i>Reconditella</i>	<b>physconiarum</b> Hafellner & Matzer: on <i>Physconia distorta</i> and <i>P. venusta</i>	Matzer & Hafellner 1990		
<i>Roselliniomyces</i>	<b>trichotheliorum</b> Matzer & Hafellner: on foliicolous <i>Trichothelium</i>	Matzer & Hafellner 1990		
<i>Roselliniopsis</i>	<b>gelidaria</b> (Mudd) Matzer: on <i>Placopsis gelida</i> <b>groedensis</b> (Zopf) Matzer & Hafellner: on <i>Pertusaria lactea</i> <b>palicei</b> Etayo: on <i>Placopsis gelida</i> <b>tartaricola</b> (Leight.) Matzer: on <i>Ochrolechia tartarea</i> , <i>Pertusaria hemisphaerica</i> and <i>P. pupillaris</i> <b>tropica</b> Matzer & R. Sant.: on ? <i>Ochrolechia</i> <b>ventosa</b> (Rostr.) Alstrup: on <i>Placopsis gelida</i>	Alstrup et al. 1994 Etayo 2003 Matzer 1993 Matzer & Hafellner 1990		
<i>Teratoschaeta</i>	<b>rondoniensis</b> Bat. & O. M. Fonseca: on foliicolous <i>Mazosia</i> and other Roccellaceae [anamorph: <i>Ampullifera amoeboides</i> ]	Matzer 1996		

## Home

	Species (lichenicolous fungi in bold;	Significant literature	Cultures (with accession numbers when known; culture collection	Sequences (with accession numbers)
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	<i>lichenicolous lichens or facultative lichenicolous fungi in italics)</i>		<a href="#">links)</a>	
<b>ASCOMYCOTA</b>				
<b>Incertae sedis</b>				
<b>Arthrorhaphidaceae</b>				
<i>Arthrorhaphis</i>	<p><b>aeruginosa</b> R. Sant. &amp; Tønsb.: on <i>Cladonia alpina</i> (Schaer.) R. Sant.: juvenile parasite on <i>Baeomyces rufus</i>, later an independent lichen</p> <p><b>arctoparmeliae</b> Kocourk. &amp; van den Boom: on <i>Arctoparmelia incurva</i></p> <p><b>citrinella</b> (Ach.) Poelt: facultative juvenile parasite on <i>Baeomyces rufus</i>, later or from the beginning an independent lichen</p> <p><b>grisea</b> Th. Fr.: juvenile parasite on <i>Baeomyces</i>, later an independent lichen</p> <p><b>muddii</b> Obermayer: on <i>Dibaeis baeomyces</i></p> <p><b>olivaceae</b> R. Sant. &amp; Tønsb.: on <i>Melanohalea olivacea</i></p> <p><b>vaccillans</b> Th. Fr.: juvenile parasite on <i>Baeomyces</i>, later an independent lichen</p>	<p>Kocourková &amp; van den Boom 2005</p> <p>Obermayer 1994</p> <p>Santesson &amp; Tønsberg 1994</p>		<p><b>citrinella</b> (Ihlen 1372): nrLSU: <a href="#">AY853357</a>; mtSSU: <a href="#">AY853309</a></p> <p><b>citrinella</b> (Nordin 4905): nrLSU: <a href="#">AY853356</a>; RPB1: <a href="#">DQ915592</a>; mtSSU: <a href="#">AY853308</a></p> <p><b>citrinella</b> (Lutzoni 97.06.29 ST2.1): nrLSU: <a href="#">AF279376</a>; nrSSU: <a href="#">AF279375</a></p>
<b>Dactylosporaceae</b>				
<i>Dactylospora</i>	<p><b>acarospora</b> (H. Magn.) Hafellner: on <i>Acarospora</i></p> <p><b>aeruginosa</b> Hohlien &amp; Ihlen: on various lichens</p> <p><b>allantoidea</b> Alstrup &amp; D. Hawksw.: on <i>Xanthoparmelia pulla</i></p> <p><b>amygdalariae</b> Triebel: on <i>Amygdalaria</i></p> <p><b>aspiciliicola</b> Alstrup &amp; D. Hawksw.: on <i>Aspicilia</i></p> <p><b>athallina</b> (Müll. Arg.) Hafellner: on <i>Baeomyces rufus</i></p>	<p>Alstrup et al. 1994</p> <p>Alstrup &amp; Hawksworth 1990</p> <p>Alstrup &amp; Olech 1993</p> <p>Clauzade et al. 1989</p> <p>Etayo 1991</p> <p>Etayo 2010c</p> <p>Etayo &amp; Sancho 2008</p> <p>Hafellner 1979</p> <p>Hafellner 1985b</p> <p>Hafellner &amp; Mayrhofer 2007</p> <p>Hafellner et al. 2002</p> <p>Hawksworth 2003</p> <p>Ihlen et al. 2004</p>	<p><b>lobariella</b>: CBS 300.80</p> <p><b>parasitica</b>: CBS 101579</p> <p><b>parasitica</b>: Culture obtained by Crittenden et al. (1995)</p>	<p><b>lobariella</b> (AFTOL-ID 2137, CBS 300.80): nrSSU: <a href="#">FJ176837</a>; nrLSU: <a href="#">FJ176891</a></p>

**attendenda** (Nyl.) Arnold: on *Amygdalaria*,  
*Icmadophila*, *Pilophorus* and *Porpidia*  
**australis** Triebel & Hertel: on *Lecidea*,  
*Paraporpidia*, *Poeltiaria*, *Poeltidea*,  
*Porpidia*, *Rimularia* and *Tremolecia*  
**borealis** Hohlien & Ihlen: on *Mycoblastus* and  
other lichens  
**cladoniicola** Alstrup & Olech: on *Cladonia*  
**davidii** Hafellner & H. Mayrh.: on  
*Pseudocyphellaria*  
**deminuta** (Th. Fr.) Triebel: on *Amygdalaria*,  
*Bacidia*, *Biatora*, *Lecanora*, *Lecidea*,  
*Lopadium*, *Micarea*, *Mycobilimbia*,  
*Pannaria*, *Protopannaria* and *Rinodina*  
**dobrowolskii** Olech & Alstrup: on  
*Caloplaca saxicola*  
**frigida** Hafellner: on *Brigantiaea*  
**glaucomarioides** ((Tuck.) Hafellner: on  
*Ochrolechia*  
**hafellneriana** Sérus.: on *Santessonia*  
*lagunebergii*  
**homoclinella** (Nyl.) Hafellner: on *Lecanora*  
and *Tephromela*  
**inquilina** (Tuck.) Hafellner: on corticolous  
*Pertusaria*  
**inconspicua** Etayo: on *Menegazzia*  
**lobariella** (Nyl.) Hafellner: on *Lobaria*  
**microspora** Etayo: on *Megalania pulvereae*  
**ophthalmizae** Coppins ined.: probably on  
*Pertusaria ophthalmiza*  
**orygmaea** (Nyl.) S. Y. Kondrat. & D. J.  
Galloway: on *Pseudocyphellaria berberina*  
**parasitica** (Flörke) Zopf: on *Ochrolechia* and

Kondratyuk & Galloway 1995c  
Olech & Alstrup 1996  
Sérusiaux & Wessels 1984  
Triebel 1989

	<p><i>Pertusaria</i></p> <p><b>parellaria</b> (Nyl.) Arnold: on <i>Ochrolechia parella</i></p> <p><b>pertusariicola</b> (Tuck.) Hafellner: on saxicolous <i>Pertusaria</i></p> <p><b>pleiosperma</b> Triebel: on <i>Lecanora caesiorubella</i></p> <p><b>polyspora</b> Triebel: on <i>Protoparmelia porphyrea</i> Hafellner &amp; Kalb: on <i>Bacidia, Brigantiaea</i> and <i>Phyllopsora</i></p> <p><b>protohallina</b> (Anzi) Hafellner: on <i>Fuscopannaria</i> and <i>Parmeliella</i></p> <p><b>purpurascens</b> Triebel: on <i>Amygdalaria, Pilophorus</i> and <i>Porpidia pyrenaica</i> Etayo: over bryophytes, perhaps associated with <i>Mycobilimbia pilularis</i></p> <p><b>rhyparizae</b> Arnold: on <i>Bryodina rhipariza</i></p> <p><b>rimulicola</b> (Müll. Arg.) Hafellner: on <i>Lecanora</i> and ?<i>Pertusaria</i></p> <p><b>rinodinicola</b> Alstrup &amp; D. Hawksw.: on <i>Rinodina turfacea</i></p> <p><b>rostrupii</b> Alstrup: on <i>Pertusaria dactylina</i></p> <p><b>saxatilis</b> (Schaer.) Hafellner: on <i>Ochrolechia</i> and <i>Pertusaria</i></p> <p><b>saxatilis</b> var. <b>laureri</b> Hafellner: on <i>Pertusaria</i></p> <p><b>tegularum</b> (Arnold) Hafellner: on <i>Caloplaca urecolata</i> (Th. Fr.) Arnold: on <i>Protothelenella sphinctrinoides</i></p>			
Melaspileaceae				
<i>Labrocarpon</i>	<b>canariense</b> (D. Hawksw.) Etayo & Pérez-Ortega: on <i>Pertusaria</i>	Hawksworth 1982b Pérez-Ortega & Etayo 2010		
<i>Melaspilea</i>	<b>cupularis</b> Müll. Arg.: on <i>Pyrenula</i>	Clauzade et al. 1989		

	<p><b>diplosiopora</b> (Nyl.) Müll. Arg.: on <i>Graphis elegans</i>  <b>epigena</b> Müll. Arg.: on <i>Reimnitzia santensis</i>  <b>leciographoides</b> Vouaux: on <i>Verrucaria</i>  <b>lentiginosa</b> (Leight.) Müll. Arg.: on <i>Phaeographis dendritica</i>  <b>tribuloides</b> (Tuck.) Müll. Arg. [= <i>Encephalographa anthracothecii</i> Diederich]: on <i>Anthracothecium</i> and <i>Pyrenula</i></p>			
Microcaliciaceae				
<i>Microcalicium</i>	<p><b>arenarium</b> (A. Massal.) Tibell: on <i>Psilolechia</i>  <b>conversum</b> Tibell: on <i>Calicium</i> and <i>Chaenotheca</i>  <b>disseminatum</b> (Ach.) Vain.: on <i>Calicium</i> and <i>Chaenotheca</i></p>	<p>Clauzade et al. 1989  Hawksworth 1981  Tibell 1978</p>		
Myxotrichaceae				
<i>Myxotrichum</i>	<b>bicolor</b> (Ehrenb.) Fr.: on <i>Usnea</i>	Hawksworth 1979a		
Obryzaceae				
<i>Obryzum</i>	<p><b>corniculatum</b> (Hoffm.) Wallr.: on <i>Leptogium</i>  <b>friesii</b> (Keissl.) Nik. Hoffm. &amp; Hafellner: on <i>Leptogium</i>  <b>striguloides</b> Aptroot &amp; Sipman: on <i>Agonimia vouauxii</i></p>	<p>Aptroot &amp; Sipman 2001  Hoffmann &amp; Hafellner 2000</p>		
Protothelenellaceae				
<i>Protothelenella</i>	<p><b>pseudocyphellariae</b> Etayo: on <i>Pseudocyphellaria</i>  <b>santessonii</b> H. Mayrh.: on <i>Cladonia</i></p>	<p>Etayo &amp; Sancho 2008  Mayrhofer 1987</p>		
Strigulaceae				
<i>Strigula</i>	<b>dichosporidii</b> Etayo: on <i>Dichosporidium</i>	Etayo 2002		
Thelocarpaceae				

<i>Thelocarpon</i>	<p><b>cyaneum</b> Olech &amp; Alstrup: on '<i>Polyblastia</i> cf. <i>gothica</i>'</p> <p><i>epibolum</i> Nyl.: facultative lichenicolous on <i>Baeomyces</i>, <i>Lichenomphalia hudsoniana</i>, <i>Peltigera</i> and <i>Solorina</i></p> <p><i>epibolum</i> var. <i>epithallinum</i> (Leight.) G. Salisb.: facultative lichenicolous on <i>Baeomyces</i>, <i>Catapyrenium</i>, <i>Peltigera</i> and <i>Solorina</i></p> <p><i>lichenicola</i> (Fuckel) Poelt &amp; Hafellner: facultative lichenicolous on <i>Baeomyces</i>, <i>Peltigera</i> and <i>Solorina</i></p>	Olech & Alstrup 1990 Rambold & Triebel 1992		
Xanthopyreniaceae				
<i>Collemopsidium</i>	<b>cephalodiorum</b> (Triebel & Grube) Grube: on <i>Pilophorus cephalodiorum</i>	Grube 2005		
<i>Didymellopsis</i>	<p><b>collematum</b> (J. Steiner) Grube &amp; Hafellner: on <i>Collema</i></p> <p><b>latitans</b> (Nyl.) Clem. &amp; Shear: on <i>Gonohymenia</i> and <i>Lempholemma</i></p> <p><b>perigena</b> (Nyl.) Grube &amp; Hafellner: on <i>Placidium squamulosum</i></p> <p><b>pulposi</b> (Zopf) Grube &amp; Hafellner: on <i>Collema</i> and <i>Leptogium</i></p>	Grube & Hafellner 1990		
<i>Zwackhiomyces</i>	<p><b>argentina</b> (Räsänen) D. Hawksw. &amp; V. Atienza: on <i>Acarospora</i></p> <p><b>aspiciliae</b> Halici &amp; Candan: on <i>Aspicilia</i></p> <p><b>berengerianus</b> (Arnold) Grube &amp; Triebel: on <i>Lecidea berengeriana</i></p> <p><b>calcariae</b> (Flagey) Hafellner &amp; Nik. Hoffm.: on <i>Aspicilia</i></p> <p><b>cervinae</b> Calat., Triebel &amp; Pérez-Ortega: on <i>Acarospora</i></p> <p><b>cladoniae</b> (C. W. Dodge) Diederich: on</p>	Alstrup 1993a Alstrup & Olech 1993 Aptroot et al. 1997 Etayo 2010b Grube & Hafellner 1990 Harris 1995 Hawksworth & Atienza 1994 Hawksworth & Miadlikowska 1997a Hoffmann & Hafellner 2000 Kondratyuk 1996b Miadlikowska & Alstrup 1995 Orange 2002		

*Cladonia*

**coepulonus** (Norman) Grube & R. Sant.: on

*Caloplaca* and *Xanthoria elegans*

**diederichii** D. Hawksw. & Iturr.: on *Cladonia*

**dispersus** (Körb.) Triebel & Grube: on

*Protoblastenia rupestris*

**echinulatus** Brackel: on *Physconia*

**euplocinus** Hafellner, Grube & Egan: on

*Speerschneidera euploca*

**heppiae** van den Boom: on *Heppia arenacea*

**inconspicuus** Grube & Hafellner: on

*Lecanora dispersa*

**kantvilasii** S. Y. Kondr.: on *Parmotrema*

**kiszkianus** D. Hawksw. & Miadl.: on

*Peltigera*

**lacustris** (Arnold) Orange: on *Ionaspis*

*lacustris*

**lecanorae** (Stein) Nik. Hoffm. & Hafellner:

on *Lecanora*

**lithoiceae** (B. de Lesd.) Hafellner & V. John:

on *Verrucaria*

**macrosporus** Alstrup & Olech: on

*Protopannaria*

**martinatianus** (Arnold) Triebel & Grube: on

*Porpidia*

**namibiensis** Diederich & M. Schultz: on

*Psorotichia*

**peltigerae** Miadl. & Alstrup: on *Peltigera*

**physciicola** Alstrup: on *Physcia caesia*

**rolfii** (Etayo) Etayo: on *Candelina*

**sipmanii** Diederich & Zhurb.: on *Phaeorrhiza*

*sareptana*

**socialis** (Körb.) Cl. Roux: on *Clauzadea*,

van den Boom 2010

	perhaps also on <i>Bacidia bagliettoana</i> <b>solenopsorae</b> van den Boom: on <i>Solenopsora holophaea</i> <b>sphinctriniformis</b> Grube & Hafellner: on <i>Romjularia lurida</i> <b>sphinctrinoides</b> (Zwackh) Grube & Hafellner: on <i>Lecanora campestris</i>			
Incertae sedis				
<i>Abrothallus</i>	<b>acetabuli</b> Diederich: on <i>Pleurosticta acetabulum</i> <b>bertianus</b> De Not.: on <i>Melanelixia</i> <b>bryoriarum</b> Hafellner: on <i>Bryoria</i> <b>buellianus</b> De Not.: on <i>Parmelina</i> <b>caerulescens</b> Kotte: on <i>Xanthoparmelia</i> <b>cetrariae</b> Kotte: on <i>Platismatia glauca</i> <b>chrysanthus</b> Stein: on <i>Usnea</i> <b>cladoniae</b> R. Sant. & D. Hawksw.: on <i>Cladonia</i> <b>granulatae</b> Wedin: on <i>Pseudocyphellaria</i> <b>halei</b> Pérez-Ortega, Suija, D. Hawksw. & R. Sant.: on <i>Lobaria</i> <b>hypotrachynae</b> Etayo & Diederich: on <i>Hypotrachyna</i> <b>macrosporus</b> Etayo & R. Sant.: on <i>Durietzia</i> <b>microspermus</b> Tul.: on <i>Flavoparmelia caperata</i> <b>parmeliarum</b> (Sommerf.) Nyl.: on <i>Parmelia</i> <b>parmotrematis</b> Diederich: on <i>Parmotrema</i> <b>peyritschii</b> (Stein) Kotte: on <i>Vulpicida</i> <b>pezizicola</b> Diederich & R.C. Harris: on <i>Cladonia peziziformis</i> <b>prodiens</b> (Harm.) Diederich & Hafellner: on	Diederich 1990 Diederich 2003 Diederich 2004a Diederich 2011 Etayo 2002 Etayo 2010b Etayo & Osorio 2004 Etayo & van den Boom 2006 Hafellner 1994a Hafellner et al. 2008 Hawksworth 1990a Ihlen & Wedin 2008 Kondratyuk 1996b Nordin 1964 Suija 2006 Suija et al. 2011 Wedin 1994		

	<p><i>Hypogymnia</i>  <b>secedens</b> Wedin &amp; R. Sant.: on  <i>Pseudocyphellaria</i>  <b>stereocaulorum</b> Etayo &amp; Diederich: on  <i>Stereocaulon</i>  <b>stictarum</b> Etayo: on <i>Sticta</i>  <b>stroblii</b> Hafellner: on <i>Menegazzia terebrata</i>  <b>suecicus</b> (Kirschst.) Nordin: on <i>Ramalina</i>  <b>tulasnei</b> M.S. Cole &amp; D. Hawksw.: on  <i>Xanthoparmelia</i>  <b>usneae</b> Rabenh.: on <i>Usnea</i>  <b>usneae</b> var. <b>tetraspora</b> Etayo &amp; Osorio: on  <i>Usnea</i>  <b>welwitschii</b> Mont.: on <i>Sticta</i></p>			
<i>Epigloea</i>	<b>urosperma</b> Döbbeler: on <i>Placyntiella</i>	Döbbeler 1994		
<i>Gyrophthorus</i>	<b>crustulosae</b> (Creveld) Hafellner & Sancho: on <i>Umbilicaria</i> <b>gracilis</b> Nik. Hoffm. & Hafellner: on <i>Umbilicaria</i> <b>perforans</b> Hafellner & Sancho: on <i>Umbilicaria</i>	Hafellner & Sancho 1990 Hoffman & Hafellner 2000		
<i>Hymenobia</i>	<b>insidiosa</b> Nyl.: on <i>Lecidea</i>	Eriksson & Hawksworth 1991 Triebel 1989 (as <i>Hymenobiella</i> <i>aporea</i> )		
<i>Hypotrachynicola</i>	<b>rubra</b> Etayo: on <i>Hypotrachyna</i>	Etayo 2002		
<i>Neolamya</i>	<b>peltigerae</b> (Mont.) Theiss. & Syd.: on <i>Peltigera</i> (mainly <i>P. didactyla</i> ) <b>xanthoparmeliae</b> Kocourk.: on <i>Xanthoparmelia conspersa</i>	Keissler 1930 Kocourková 2009		
<i>Pleosphaeria</i>	<b>lichenothricis</b> Henssen: on <i>Lichenothrix</i> <i>ridlei</i>	Henssen 1964		
<i>Rhynchomeliola</i>	<b>lichenicola</b> Henssen & Kantvilas: on <i>Wawea</i>	Henssen & Kantvilas 1985		
<i>Sarcoexcipula</i>	<b>pannariae</b> Etayo: on <i>Pannaria pallida</i>	Etayo & Sancho 2008		

<i>Sphaeria</i>	<b>sociella</b> Nyl.: on <i>Trapelia coarctata</i>	Triebel 1989		
<i>Stellifraga</i>	<b>cladonicola</b> Alstrup & Olech: on <i>Cladonia</i>	Alstrup & Olech 1993		
<i>Viridiannula</i>	<b>pertusariae</b> Etayo: on <i>Pertusaria pertusa</i>	Etayo 2002b		

## Home

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <a href="#">culture collection links</a> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Anamorphic Ascomycota</b>				
<i>Acaroconium</i>	<b>punctiforme</b> Kocourk. & D. Hawksw.: on <i>Acarospora</i> and <i>Sarcogyne</i>	Kocourková & Hawksworth 2008		
<i>Acarosporium</i>	<b>lichenicola</b> Ihlen & Tønsberg: on <i>Icmadophila</i>	Ihlen 1998		
<i>Acremonium</i>	<b>antarcticum</b> (Speg.) D. Hawksw.: on various lichens, facultative lichenicolous <b>hypholomatis</b> (Boedijn) D. Hawksw.: on <i>Physcia stellaris</i> , facultative lichenicolous <b>lichenicola</b> W. Gams: on lichens and other substrata [ <i>pedatum</i> Lowen: on <i>Hypogymnia physodes</i> = anamorph of <i>Trichonectria anisospora</i> ] <i>persicinum</i> (Nicot) W. Gams: isolated from lichens, facultative lichenicolous <i>psychrophilum</i> Möller & Gams: isolated from lichens [ <i>rhabdosporum</i> W. Gams: on <i>Parmelia</i> , also reported from <i>Cladonia</i> = anamorph of <i>Trichonectria rubefaciens</i> ] <b>spegazzinii</b> D. Hawksw.: on <i>Leptogium</i>	Diederich 1989 Diederich & Braun 2009 Hawksworth 1979a Lowen 1995	<b>antarcticum</b> : CBS 987.87; BCRC <b>lichenicola</b> : CBS (6 strains); VKM; BCRC <b>persicinum</b> : BCCM; UAMH; CCM; LCP; DSMZ; ITCC; MTCC; IFO; JCM; CBS; KMM; BCRC; IMI; ATCC; ARS (NRRL) <b>rhabdosporum</b> (= anamorph of <i>Trichonectria rubefaciens</i> ): CBS; BCRC <b>rhabdosporum</b> : culture obtained by Lowen 1995	<b>antarcticum</b> (CBS 987.87): nrSSU+ITS: <a href="#">DQ825970</a> ; nrLSU: <a href="#">EF543830</a> <b>persicinum</b> (AFTOL 1391, CBS 310.59): nrLSU: <a href="#">FJ176878</a> ; nrSSU: <a href="#">FJ176822</a> ; RPB2: <a href="#">FJ238361</a> <b>persicinum</b> : nr5SRNA: <a href="#">X00866</a> ; <a href="#">X00865</a> ; <a href="#">X00864</a>

	<i>strictum</i> W. Gams: facultative lichenicolous			
<i>Ampullifera</i>	[ <i>amoeboides</i> (Bat. & Caval.) D. Hawksw.: on foliicolous <i>Mazosia</i> and other Roccellaceae = anamorph of <i>Teratoschaeta rondoniensis</i> ] <b>foliicola</b> Deight.: on foliicolous lichens <b>hippocrateacearum</b> (Bat. & Caval.) D. Hawksw.: on foliicolous <i>Mazosia</i> and other lichens <b>leonensis</b> Deight.: on foliicolous lichens <b>pirozynskii</b> D. Hawksw.: on foliicolous lichens <b>ugandensis</b> Deight.: on foliicolous lichens	Hawksworth 1979a		
<i>Arborillus</i>	<b>llimonae</b> Munt.-Cvet. & Gómez-Bolea: on <i>Diploschistes</i>	Muntañola-Cvetkovic & Gómez-Bolea 1998		
<i>Ascochyta</i>	<b>santessonii</b> Alstrup & D. Hawksw.: on <i>Phaeophyscia sciastra</i> <b>candelariellicola</b> D. Hawksw. & Kalb: on <i>Candelariella aurella</i>	Alstrup & Hawksworth 1990 Hawksworth & Kalb 1992		
<i>Asteroglobulus</i>	<b>giselae</b> Brackel: on <i>Ramalina farinacea</i>	Brackel 2011		
<i>Asterophoma</i>	<b>mazaediicola</b> D. Hawksw.: on <i>Calicium</i>	Hawksworth 1981 Tibell 1991a		
<i>Bachmanniomyces</i>	<b>pseudocyphellariae</b> Etayo: on <i>Pseudocyphellaria</i> <b>santessonii</b> Etayo: on <i>Sticta</i> <b>uncialicola</b> (Zopf) D. Hawksw.: on <i>Cladonia</i>	Etayo 2010b Etayo & Sancho 2008 Hawksworth 1981		
<i>Berkleasmium</i>	<b>parmeliellae</b> Etayo & Diederich: on	Etayo & Diederich 1995		

	<i>Parmeliella testacea</i>			
<i>Briancoppinsia</i>	<b>cytopora</b> (Vouaux) Diederich, Ertz, Lawrey & van den Boom: on parmelioid lichens, <i>Lecanora conizaeoides</i> , <i>Cladonia</i> and <i>Pertusaria</i>	Diederich et al. 2011		
<i>Calongeomyces</i>	<b>gibelluloides</b> (D. Hawksw. & Etayo) D. Hawksw. & Etayo: on <i>Cladonia</i> and <i>Flavoparmelia caperata</i>	Hawksworth & Etayo 2010 Hawksworth & Etayo 2011		
<i>Carnegieispora</i>	<b>rimeliae</b> Etayo & F. Berger: on <i>Parmotrema</i>	Etayo & Berger 2009		
<i>Cephalosporiopsis</i>	<b>epiparasitaster</b> Alstrup: on <i>Chaenothecopsis parasitaster</i>	Alstrup 1997		
<i>Chalara</i>	<b>lichenicola</b> M. S. Christ.: on <i>Cladonia</i> <b>lobariae</b> Etayo: on <i>Lobaria pulmonaria</i> <b>pseudocyphellariae</b> Etayo: on <i>Pseudocyphellaria</i>	Christiansen 1993 Etayo & Diederich 1996b Etayo & Sancho 2008		
<i>Choreospora</i>	<b>tibellii</b> Constant. & R. Sant.: on foliicolous <i>?Echinoplaca</i>	Constantinescu & Santesson 1987		
<i>Cladoniicola</i>	<b>irregularis</b> Etayo: on <i>Diploschistes diacapsis</i> <b>staurospora</b> Diederich, van den Boom & Aptroot: on <i>Cladonia</i>	Diederich et al. 2002 ('2001') Etayo 2010c		
<i>Cladosporium</i>	<b>arthoniae</b> M. S. Christ. & D. Hawksw.: on corticolous lichens with <i>Trentepohlia</i> <b>licheniphilum</b> Heuchert & U. Braun: on <i>Pertusaria alpina</i>	Diederich 1989 Hawksworth 1979a Heuchert & Braun 2006		
<i>Clauzadeomyces</i>	<b>verrucosus</b> Diederich: on <i>Placopsis</i>	Diederich 1994		
<i>Codonmyces</i>	<b>lecanorae</b> Calat. & Etayo: on <i>Lecanora valesiaca</i>	Calatayud & Etayo 1999a		
<i>Coniambigua</i>	<b>phaeographidis</b> Etayo & Diederich: on <i>Phaeographis</i>	Etayo & Diederich 1995		
<i>Cornutispora</i>	<b>ciliata</b> Kalb: on various lichens <b>herteliana</b> Knoph: on <i>Lecidella</i> <b>intermedia</b> Punith. & D. Hawksw.: on	Etayo 2010a Etayo & Diederich 1995 Gierl & Kalb 1993 Hawksworth 1976	<b>ciliata</b> : CBS 111093	

	<i>Ochrolechia</i> <b>lichenicola</b> D. Hawksw. & B. Sutton: on various lichens <b>pittii</b> D. Hawksw. & Punith.: on <i>Hypotrachyna</i> <b>pyramidalis</b> Etayo: on <i>Hypotrachyna</i> and <i>Parmotrema</i> <b>triangularis</b> Diederich & Etayo: on <i>Pertusaria pertusa</i>	Hawksworth 1981 Knoph 2004 Punithalingam 2003 Sutton 1980		
<i>Corynespora</i>	<b>laevistipitata</b> (M. S. Cole & D. Hawksw.) Heuchert & U. Braun: on <i>Pertusaria ophthalmiza</i>	Heuchert & Braun 2006		
<i>Deichmannia</i>	<b>verrucosa</b> Alstrup & D. Hawksw.: on <i>Diploschistes</i>	Alstrup & Hawksworth 1990		
<i>Dendrodochium</i>	<b>subeffusum</b> Ellis & Galw.: on <i>Physcia millegrana</i> and possibly other lichens	Hawksworth 1979a		
<i>Dictyophrynella</i>	<b>bigoniacearum</b> Bat. & Caval.: on foliicolous lichens	Hawksworth 1979a		
<i>Diederichia</i>	<b>pseudeverniae</b> (Etayo & Diederich) D. Hawksw.: on <i>Pseudevernia</i>	Etayo & Diederich 1996a Hawksworth 2003		
<i>Dinemasporium</i>	<b>strigosum</b> (Fr.) Sacc.: facultative lichenicolous on <i>Peltigera</i>	Miadlikowska & Alstrup 1995	<b>strigosum</b> : CBS (4 records); MUCL; VKM; UPSC; IMI; ARS (NRRL)	
<i>Diplolaeviopsis</i>	<b>ranula</b> Giralt & D. Hawksw.: on <i>Lecanora strobilina</i> and <i>L. strobilinoides</i>	Giralt & Hawksworth 1991		
<i>Ellisembia</i>	<b>lichenicola</b> Heuchert & U. Braun: on <i>Pertusaria</i> and <i>Physconia</i>	Heuchert & Braun 2006		
<i>Endophragmiella</i>	<b>franconica</b> Brackel & Markovskaja: on <i>Platismatia glauca</i> and <i>Hypogymnia physodes</i> <b>hughesii</b> D. Hawksw.: on <i>Lobaria pulmonaria</i>	Brackel & Markovskaja 2009 Hawksworth 1979a		
<i>Epaphroconidia</i>	<b>hawksworthii</b> Calat. & V. Atienza: on <i>Pertusaria pertusa</i>	Calatayud & Atienza 1995		
<i>Epicladonia</i>	<b>lapponica</b> Ihlen: on <i>Pleopsidium</i>	Hawksworth 1981		

	<i>chlorophanum</i> <b>sandstedei</b> (Zopf) D. Hawksw.: on <i>Cladonia</i> <b>simplex</b> D. Hawksw.: on <i>Cladonia</i> <b>stenospora</b> (Harmand) D. Hawksw.: on <i>Cladonia</i>	Ihlen & Wedin 2005		
<i>Epicoccum</i>	<b>nigrum</b> Link: facultative lichenicolous over various lichens	David & Hawksworth 1995 Diederich 2004b	<b>nigrum</b> (syn. <i>E. purpurascens</i> ): ACM; FRR; JCT; WAC; MUCL; URM; CCFC; CCM; VTT; LCP; DSMZ; DUM; ITCC; IFO; JCM; MAFF; ICMP; VKM; BCRC; ARS (NRRL); NCAM	<b>nigrum</b> : 131 nucleotide sequences and 11 protein sequences in GenBank
<i>Everniicola</i>	<b>flexispora</b> D. Hawksw.: on <i>Evernia</i> and <i>Nephroma arcticum</i>	Hawksworth 1982a		
<i>Feltgeniomyces</i>	<b>dichotomus</b> Etayo & Calat.: on <i>Physcia</i> <b>luxemburgensis</b> Diederich: on <i>Lecidella</i> <b>physciae</b> Etayo & Breuss: on <i>Physcia</i> <b>uniseptatus</b> Diederich: on <i>Hypotrachyna</i>	Aptroot et al. 1997 Calatayud & Etayo 2001 Diederich 1990 Etayo & Breuss 1998		
<i>Fenestroconidia</i>	<b>caloplacae</b> Calat. & Etayo: on <i>Caloplaca</i>	Calatayud & Etayo 1999b		
<i>Fusarium</i>	<b>peltigerae</b> Westend.: on <i>Peltigera</i>	Hawksworth 1979a	<b>F. sp.</b> : ATCC 208869; ARS (NRRL) 26803	<b>F. sp.</b> (ATCC 208869): nrLSU: AF228360; nrSSU: AF289654
<i>Fusicladium</i>	<b>peltigericola</b> Crous & Diederich: isolated from <i>Peltigera</i> , possibly lichenicolous	Crous et al. 2011	<b>peltigericola</b> : CBS 128206	<b>peltigericola</b> : nrITS: HQ599579
<i>Gliocephalis</i>	<b>pulchella</b> (Penz. & Sacc.) D. Hawksw.: on <i>Sticta</i>	Hawksworth 1979a		
<i>Graphium</i>	<b>aphthosae</b> Alstrup & D. Hawksw.: on <i>Peltigera</i> <b>samogiticum</b> Motiej. & Alstrup: over <i>Sarcosagium</i> and <i>Verrucaria</i> , possibly algalicolous	Alstrup & Hawksworth 1990 Motiejūnaitė & Alstrup 2006		
<i>Hainesia</i>	<b>pertusariae</b> Etayo & Diederich: on <i>Pertusaria</i> <b>xanthoriae</b> Brackel: on <i>Xanthoria</i>	Brackel 2009 Etayo & Diederich 1996a		

<i>Hansfordiellopsis</i>	[ <i>elongata</i> D. Hawksw.: on <i>Porina</i> and other foliicolous lichens = anamorph of <i>Koordersiella deightonii</i> ] [ <i>lichenicola</i> (Bat. & Maia) Deight.: on foliicolous lichens = anamorph of <i>Koordersiella insectivora</i> ] <b>minuta</b> D. Hawksw.: on foliicolous lichens <b>tenuissima</b> D. Hawksw.: on foliicolous lichens <b>variegata</b> D. Hawksw.: on foliicolous lichens, incl. <i>Bullatina aspidota</i>	Hawksworth 1979a		
<i>Hawksworthiana</i>	<b>peltigericola</b> (D. Hawksw.) U. Braun: on <i>Peltigera</i>	Braun 1988 Hawksworth 1980a		
<i>Helicobolomyces</i>	[ <i>lichenicola</i> Matzer: on <i>Porina</i> and <i>Trichothelium</i> = anamorph of <i>Arthonia cinnabarinula</i> ]			
<i>Hobsoniopsis</i>	<b>santessonii</b> (Lowen & D. Hawksw.) D. Hawksw.: on <i>Peltigera</i> , mainly <i>P. scabrosa</i>	Lowen et al. 1986 Sikaroodi et al. 2001	<b>santessonii</b> : ATCC 200311	<b>santessonii</b> (ATCC 200311): nrSSU: <a href="#">AF289658</a>
<i>Illosporium</i>	<b>carneum</b> Fr.: on <i>Peltigera</i> [= anamorph of several <i>Pronectria</i> species]	Hawksworth 1979a Sikaroodi et al. 2001	<b>carneum</b> : ATCC 201590	<b>carneum</b> (ATCC 201590): nrSSU: <a href="#">AF289655</a>
<i>Illosporiopsis</i>	<b>christiansenii</b> (B. L. Brady & D. Hawksw.) D. Hawksw.: on various corticolous lichens	Lowen et al. 1986 Sikaroodi et al. 2001	<b>christiansenii</b> : ATCC 201109 <b>christiansenii</b> : Culture (as <i>Hobsonia christiansenii</i> ) obtained by Crittenden et al. (1995)	<b>christiansenii</b> (ATCC 201109): nrSSU: <a href="#">AF289656</a>
<i>Intralichen</i>	<b>baccisporus</b> D. Hawksw. & M. S. Cole: on <i>Caloplaca</i> and other lichens <b>christiansenii</b> (D. Hawksw.) D. Hawksw. & M. S. Cole: on <i>Candelariella</i> and other lichens <b>lichenicola</b> (M. S. Christ. & D. Hawksw.) D. Hawksw. & M. S. Cole: on <i>Candelariella</i> and other lichens <b>lichenum</b> (Diederich) D: Hawksw. & M. S.	Diederich 1990 Hawksworth 1979a Hawksworth & Cole 2002	<b>christiansenii</b> : Cultures (as <i>Bispora christiansenii</i> ) obtained by Hawksworth (1979) and Crittenden et al. (1995)	<b>christiansenii</b> (as <i>Bispora christiansenii</i> , IMI 227584): nrSSU: <a href="#">AM279680</a>

	Cole: on various lichens			
<i>Kalchbrenneriella</i>	<b>cyanescens</b> (Kalchbr.) Diederich & M. S. Christ.: on <i>Usnea</i>	Diederich 2002		
<i>Karsteniomyces</i>	<b>llimonae</b> Boqueras & Diederich: on <i>Parmelina quercina</i> [ <i>peltigerae</i> (P. Karst.) D. Hawksw.: on <i>Peltigera</i> = anamorph of <i>Scutula miliaris</i> ] <b>tuberculosis</b> Alstrup & D. Hawksw.: on <i>Peltigera leucophlebia</i>	Alstrup & Hawksworth 1990 Boqueras & Diederich 1993 Hawksworth 1980b Hawksworth 1981		
<i>Keissleriomyces</i>	<b>sandstedeanus</b> (Keissler) D. Hawksw.: on <i>Cladonia furcata</i>	Hawksworth 1981		
<i>Lambinonia</i>	<b>strigulae</b> (Elenkin & Woron.) Sérus. & Diederich: on foliicolous <i>Strigula</i>	Sérusiaux & Diederich 2005		
<i>Lawalreea</i>	<b>lecanorae</b> Diederich: on <i>Lecanora persimilis</i>	Diederich 1990		
<i>Leightoniomyces</i>	<b>phillipsii</b> (Berk. & Leight.) D. Hawksw. & B. Sutton: on <i>Steinia geophana</i> and <i>Thrombium epigaeum</i> , possibly algicolous	Hawksworth 1977a Hawksworth 1979a		
<i>Libertiella</i>	<b>curvispora</b> D. Hawksw. & Miadl.: on <i>Peltigera</i> <b>didymospora</b> D. Hawksw. & Miadl.: on <i>Peltigera</i> <b>fennica</b> Alstrup: on <i>Peltigera</i> <b>leprariae</b> Etayo & Diederich: on <i>Lepraria</i> <b>malmedyensis</b> Speg. & Roum.: on <i>Peltigera</i> <b>obscurior</b> Gerber: on <i>Brodoa intestiniformis</i>	Etayo & Diederich 1995 Hawksworth 1981 Hawksworth & Miadlikowska 1997a		
<i>Lichenobactridium</i>	<b>pertusariae</b> Diederich & Etayo: on <i>Pertusaria pertusa</i>	Etayo & Diederich 1995		
<i>Lichenocodium</i>	<b>aeruginosum</b> Diederich, M. Brand, van den Boom & Lawrey: on <i>Cladonia</i> <b>cargillianum</b> (Linds.) D. Hawksw.: on	Alstrup & Cole 1998 Christiansen 1956 Christiansen 1980 Cole & Hawksworth 2004	<b>aeruginosum</b> : CBS 129239 <b>erodens</b> : Culture obtained by Crittenden et al. (1995)	<b>aeruginosum</b> : (CBS 129239, JL359-09); nrLSU: <a href="#">HQ174269</a> ; mtSSU: <a href="#">HQ174268</a>

	<p><i>Letharia, Parmotrema, Platismatia, Ramalina</i> and <i>Usnea</i></p> <p><b>christiansenii</b> M. S. Cole &amp; D. Hawksw.: on <i>Nodobryoria abbreviata</i></p> <p><b>echinosporum</b> D. Hawksw.: on <i>Heterodea muelleri</i></p> <p><b>edgewoodensis</b> Alstrup &amp; M. S. Cole: on <i>Parmelia sulcata</i></p> <p><b>erodens</b> M. S. Christ. &amp; D. Hawksw.: on various lichens</p> <p><b>follmannii</b> S. Y. Kondr. &amp; D. J. Galloway: on <i>Lobaria pulmonaria</i></p> <p><b>laevisporum</b> Kalb &amp; Hafellner: on <i>Haematomma</i></p> <p><b>lecanorae</b> (Jaap) D. Hawksw.: on various lichens</p> <p><b>lichenicola</b> (P. Karst.) Petr. &amp; Syd.: on <i>Physcia</i></p> <p><b>plectocarpoides</b> S. Y. Kondr. &amp; D. J. Galloway: on <i>Pseudocyphellaria</i></p> <p><b>pyxidatae</b> (Oudem.) Petr. &amp; Syd.: on <i>Cladonia</i></p> <p><b>reichlingii</b> Diederich: on <i>Ramalina fraxinea</i></p> <p><b>usneae</b> (Anzi) D. Hawksw.: on various lichens</p> <p><b>xanthoriae</b> M. S. Christ.: on <i>Xanthoria</i>, also reported from <i>Caloplaca, Cetraria, Cetreliia, Heterodermia, Melanelia, Physcia</i> and <i>Teloschistes</i></p>	<p>Diederich 1986 Hawksworth 1977b Hawksworth 1981 Kalb et al. 1995 Kondratyuk &amp; Galloway 1995b Kondratyuk et al. 1994 Lawrey et al. 2011</p>	<p><b>erodens</b>: CBS 128028 <b>erodens</b>: CBS 128030 <b>erodens</b>: CBS 128704 <b>lecanorae</b>: Culture obtained by Crittenden et al. (1995) <b>lecanorae</b>: CBS 128024 <b>sp.</b>: CBS 129139 <b>usneae</b>: CBS 128020</p>	<p><b>erodens</b>: (JL363-09): nrLSU: <a href="#">HQ174267</a>; mtSSU: <a href="#">HQ174266</a> <b>lecanorae</b>: (CBS 128024): nrLSU: <a href="#">HQ174263</a>; mtSSU: <a href="#">HQ174262</a> <b>usneae</b>: (CBS 128020): nrLSU: <a href="#">HQ174265</a>; mtSSU: <a href="#">HQ174264</a></p>
<p><i>Lichenodiplis</i></p>	<p><b>crespoae</b> Pérez-Ortega &amp; V. Atienza: on <i>Cyphelium notarisii</i></p> <p><b>dendrographae</b> Diederich &amp; van den Boom: on <i>Dendrographa</i></p> <p><b>fallaciosa</b> (Hafellner &amp; Kalb) Diederich: on <i>Buellia</i></p>	<p>Berger &amp; Diederich 1996 Diederich 2003 Cole &amp; Hawksworth 2001 Hawksworth 1981 Hawksworth &amp; Dyko 1979 Kalb 1990 Knudsen &amp; Kocourková 2009</p>		

	<p><b>hawksworthii</b> F. Berger &amp; Diederich: on <i>Pertusaria</i></p> <p><b>lecanorae</b> (Vouaux) Dyko &amp; D. Hawksw.: on <i>Caloplaca</i>, <i>Lecanora</i> and other crustose lichens</p> <p><b>lecanoricola</b> (M. S. Cole &amp; D. Hawksw.) Diederich: on <i>Lecanora</i></p> <p><b>lichenicola</b> Dyko &amp; D. Hawksw.: on <i>Rinodina</i></p> <p><b>opegraphae</b> (D. Hawksw.) Diederich: on <i>Opegrapha</i></p> <p><b>pertusariicola</b> (Nyl.) Diederich: on <i>Pertusaria</i></p> <p><b>poeltii</b> S. Y. Kondr. &amp; D. Hawksw.: on <i>Xanthoria parietina</i></p> <p><b>rinodinicola</b> Kocourk. &amp; K. Knudsen: on <i>Rinodina</i></p>	Kondratyuk 1996a		
<i>Lichenodiplisiella</i>	<b>makarevichiae</b> S. Y. Kondr. & Kudratov: on <i>Teloschistes brevior</i>	Kondratyuk et al. 2002		
<i>Lichenohendersonia</i>	<p><b>squamarinae</b> Calat. &amp; Etayo: on <i>Squamarina</i></p> <p><b>uniseptata</b> Etayo &amp; Calatayud: on <i>Parmelina</i></p> <p><b>varians</b> Calat. &amp; Etayo: on <i>Rhizoplaca</i></p>	Calatayud & Etayo 2001		
<i>Lichenophoma</i>	<b>haematommatis</b> Keissler: on <i>Haematomma</i>	Hawksworth 1981		
<i>Lichenopuccinia</i>	<b>poeltii</b> D. Hawksw. & Hafellner: on <i>Parmelia</i>	Hawksworth 1984		
<i>Lichenostella</i>	<b>hypotrachynae</b> Etayo & Calatayud: on <i>Hypotrachyna</i>	Calatayud & Etayo 1999a		
<i>Lichenosticta</i>	<b>alcicorniaria</b> (Lindsay) D. Hawksw.: on <i>Cladonia</i>	Hawksworth 1981		
<i>Microsphaeropsis</i>	<b>lichenicola</b> Etayo: on <i>Pannaria</i>	Etayo & Sancho 2008		
<i>Milospium</i>	<b>deslooveri</b> Diederich & Sérus.: probably not lichenicolous, but lichenized	Aptroot & Sipman 2001 Etayo & Diederich 1996a Hawksworth 1975a		

	<b>graphideorum</b> (Nyl.) D. Hawksw.: lichenicolous on lichens with <i>Trentepohlia</i> , sometimes an independent lichen <b>lacoizquetae</b> Etayo & Diederich: on <i>Cladonia parasitica</i> <i>planorbis</i> Aptroot & Sipman: probably not lichenicolous, but lichenized	Hawksworth 1979a Sérusiaux et al. 1999		
<i>Minutoexcipula</i>	<b>beaglei</b> Etayo: on <i>Lecanora</i> <b>calatayudii</b> V. Atienza: on <i>Hypogymnia</i> <b>mariana</b> V. Atienza: on <i>Pertusaria</i> <b>tephromelae</b> V. Atienza, Etayo & Pérez- Ortega: on <i>Tephromela</i> <b>tuckerae</b> V. Atienza & D. Hawksw.: on corticolous <i>Pertusaria</i> <b>tuerkii</b> Hafellner: on <i>Pertusaria glomerata</i>	Atienza 2002 Atienza & Hawksworth 1994 Atienza et al. 2009 Etayo & Sancho 2008 Hafellner 1994a		
<i>Minutophoma</i>	<b>chrysophthalmae</b> D. Hawksw.: on <i>Chrysothrix chrysophthalmae</i>	Hawksworth 1981		
<i>Mixtoconidium</i>	<b>canariense</b> Etayo: on <i>Ramalina</i>	Etayo 1995a		
<i>Monocillium</i>	[sp.: on <i>Cladonia</i> = anamorph of <i>Niesslia</i> <i>cladoniicola</i> ]	Hawksworth 1979		
<i>Monodictys</i>	<b>anaptychia</b> (Lindau) D. D. Hawksw.: on <i>Anaptychia</i> <b>cellulosa</b> S. Hughes [?= <i>lepraria</i> (Berk.) M. B. Ellis]: on various crustose, corticolous lichens <b>epilepraria</b> Kukwa & Diederich: on <i>Lepraria</i>	Etayo & Diederich 1996b Hawksworth 1975a Hawksworth 1979a	<b>lepraria</b> : UAMH; DUM <b>lepraria</b> : CBS 533.77	
<i>Nigromacula</i>	<b>uniseptata</b> (D. Hawksw.) D. Hawksw.: on <i>Hypotrachyna</i>	Etayo 2002		
<i>Nigropuncta</i>	<b>groenlandica</b> Alstrup: on crustose lichen <b>rugulosa</b> D. Hawksw.: on <i>Bellemeria</i>	Alstrup 1993a Hawksworth 1981 Hawksworth & Poelt 1986		
<i>Patriciomyces</i>	<b>valentinianus</b> D. Hawksw.: on <i>Physcia</i>	Cole & Hawksworth 2001		
<i>Phaeoseptoria</i>	<b>peltigerae</b> Punith. & Spooner: on <i>Peltigera</i>	Punithalingam & Spooner 1997		

	<i>horizontalis</i>			
<i>Phaeosporobolus</i>	<p><b>alpinus</b> R. Sant., Alstrup &amp; D. Hawksw.: on <i>Ochrolechia</i> and other lichens</p> <p><b>fellhanerae</b> R. C. Harris &amp; Lendemer: on <i>Fellhanera</i></p> <p><b>minutus</b> Etayo: on <i>Coccotrema</i> and <i>Pertusaria</i></p> <p><b>usneae</b> D. Hawksw. &amp; Hafellner: mainly on corticolous, fruticose lichens</p>	<p>Alstrup &amp; Hawksworth 1990</p> <p>Etayo &amp; Sancho 2008</p> <p>Harris &amp; Lendemer 2009</p> <p>Hawksworth &amp; Hafellner 1986</p>		
<i>Phoma</i>	<p><b>aggregata</b> Calat. &amp; Etayo: on <i>Diploschistes ocellatus</i></p> <p><b>caloplacae</b> D. Hawksw.: on <i>Caloplaca cerina</i></p> <p><b>cladoniicola</b> Diederich, Kocourk. &amp; Etayo: on <i>Cladonia</i></p> <p><b>denigricans</b> Hafellner: on <i>Lecanora epibryon</i></p> <p><b>dubia</b> (Linds.) Sacc. &amp; A. Trotter: on <i>Usnea</i></p> <p><b>epiphyscia</b> Vouaux: on <i>Phaeophyscia</i></p> <p><b>everniae</b> D. Hawksw.: on <i>Evernia prunastri</i></p> <p><b>ficuzzae</b> Brackel: on <i>Ramalina fraxinea</i></p> <p><b>fistulina</b> Etayo &amp; Osorio: on <i>Concamerella fistulata</i></p> <p><b>foliaceiphila</b> Diederich, Kocourk. &amp; Etayo: on <i>Cladonia</i></p> <p><b>fuliginosa</b> M. S. Cole &amp; D. Hawksw.: on <i>Caloplaca trachyphylla</i></p> <p><b>grumantiana</b> Zhurb. &amp; Diederich: on <i>Cladonia</i></p> <p><b>lecanorina</b> Diederich: on <i>Lecanora expallens</i></p> <p><b>lobariae</b> Diederich &amp; Etayo: on <i>Lobaria pulmonaria</i></p> <p>[<i>lobariicola</i> Alstrup: on <i>Lobaria scrobiculata</i> is probably an anamorph of <i>Catillaria lobariicola</i>]</p>	<p>Alstrup 1997</p> <p>Brackel 2008</p> <p>Brackel 2011</p> <p>Calatayud &amp; Etayo 2001</p> <p>Diederich 1986</p> <p>Diederich et al. 2007</p> <p>Earland-Bennett et al. 2006</p> <p>Etayo &amp; Diederich 1995</p> <p>Etayo &amp; Osorio (2004)</p> <p>Etayo &amp; Sancho 2008</p> <p>Hafellner 1994a</p> <p>Hafellner &amp; Wieser 2000</p> <p>Hawksworth 1980b</p> <p>Hawksworth 1981</p> <p>Hawksworth 1994</p> <p>Hawksworth &amp; Cole 2004</p> <p>Ihlen 1998</p> <p>Martínez &amp; Hafellner 1998</p> <p>Oksner 2010</p>	<b>cladoniicola</b> : CBS 128026	

	<p><b>maculiformans</b> Ihlen: on <i>Dibaeis baeomyces</i></p> <p><b>melanelixiae</b> Brackel: on <i>Melanelixia glabra</i></p> <p><b>melanohaleicola</b> D. Hawksw. &amp; Earl.-Benn.: on <i>Melanohalea exasperata</i></p> <p><b>peltigerae</b> (P. Karst.) D. Hawksw.: on <i>Peltigera</i></p> <p><b>physciicola</b> Keissl.: on <i>Physcia</i> and <i>Physconia</i></p> <p><b>pisutii</b> S. Y. Kondr., A. Lackovičová, E. Lisická &amp; A. Guttová: on <i>Xanthoria ulophyllodes</i></p> <p><b>rozziana</b> Etayo: on <i>Pseudocyphellaria</i></p>			
<i>Phyllosticta</i> s.l.	<b>galligena</b> F. Moreau: on <i>Parmotrema</i>	Moreau 1951		
<i>Psamma</i>	<p><b>inflata</b> Earl.-Benn. &amp; D. Hawksw.: on <i>Lepraria</i> and corticolous algae</p> <p><b>simplex</b> Earl.-Benn. &amp; D. Hawksw.: on various corticolous lichens and algae</p> <p><b>stipitata</b> D. Hawksw.: on various corticolous lichens and algae</p>	Earland-Bennett & Hawksworth 1999a Hawksworth 1979a		
<i>Pseudocercospora</i>	<b>lichenum</b> (Keissl.) D. Hawksw.: on <i>Haematomma cisonicum</i>	Etayo 2002 Hawksworth 1979a		
<i>Pseudorobillarda</i>	<b>peltigerae</b> Diederich: on <i>Peltigera</i>	van den Boom et al. 1998		
<i>Pseudoseptoria</i>	<b>usneae</b> (Vouaux) D. Hawksw.: on <i>Usnea</i>	Hawksworth 1981		
<i>Pseudospiropes</i>	<b>longipilus</b> (Corda) Hol.-Jech.: facultative lichenicolous on <i>Lepraria</i>	Braun et al. 2008		
<i>Pycnopsamma</i>	<b>lobariae</b> Diederich & Etayo: on <i>Lobaria pulmonaria</i>	Etayo & Diederich 1995		
<i>Pyrenochaeta</i>	<p><b>collematis</b> Vouaux: on <i>Collema tenax</i></p> <p><b>xanthoriae</b> Diederich: on <i>Xanthoria</i></p>	Clauzade et al. 1989 Diederich 1990 Hafellner 1982a		
<i>Pyrenochaetopsis</i>	<b>microspora</b> (Gruyter & Boerema) Gruyter, Aveskamp & Verkley: facultative	de Gruyter et al. (in press)	<b>microspora</b> : CBS 101333	<b>microspora</b> (CBS 101333): nrLSU: <a href="#">GQ387630</a>

	lichenicolous on <i>Buellia</i>			
<i>Ramichloridium</i>	<b>cladoniicola</b> U. Braun & Heuchert: on <i>Cladonia portentosa</i>	Braun et al. 2009		
<i>Refractohilum</i>	<b>achromaticum</b> (B. Sutton) D. Hawksw.: on <i>Pachyphiale</i> <b>galligenum</b> D. Hawksw.: on <i>Nephroma laevigatum</i> <b>intermedium</b> Cl. Roux & Etayo: on <i>Pachyphiale</i> <b>peltigerae</b> (Keissl.) D. Hawksw.: on <i>Peltigera</i> <b>pluriseptatum</b> Etayo & Cl. Roux: on <i>Pachyphiale</i> , possibly also on <i>Nephroma antarcticum</i>	Etayo & Sancho 2008 Hawksworth 1977a Hawksworth 1979a Roux et al. 1997		
<i>Rhabdospora</i>	<b>haematommatus</b> Kalb & Hafellner: on <i>Haematomma</i>	Kalb et al. 1995		
<i>Sclerococcum</i>	<b>acarosporae</b> S. Y. Kondr.: on <i>Acarospora</i> <b>areolatum</b> Etayo: probably on <i>Xylographa</i> <b>cladoniae</b> Diederich: on <i>Cladonia</i> <b>epiphytorum</b> Diederich: on <i>Pertusaria hemisphaerica</i> <b>gelidarium</b> Etayo & F. Berger: on <i>Placopsis</i> <b>griseosporodochium</b> Etayo: probably not lichenicolous, but lichenized <b>hawksworthii</b> Etayo & Diederich: on <i>Megalospora tuberculosa</i> <b>leuckertii</b> Diederich & P. Scholz: on <i>Buellia aethalea</i> <b>montagnei</b> Hafellner: on <i>Lecanora rupicola</i> <b>normandinae</b> Diederich & Etayo: on <i>Normandina pulchella</i> <b>parmeliae</b> Etayo & Diederich: on <i>Parmelia</i> s. lat., also on <i>Lobaria</i> and <i>Pannaria</i> <b>serusiauxii</b> Boqueras & Diederich: on	Alstrup 1993a Berger 2000 Boqueras & Diederich 1993 Diederich 1990 Diederich 2010 Diederich & Scholz 1995 Etayo 1995b Etayo & Calatayud 1998 Etayo & Diederich 1995 Etayo & Diederich 1996a Etayo & Sancho 2008 Hafellner 1996b Hawksworth 1975a Hawksworth 1979a Kondratyuk & Zelenko 2002	<b>sphaerale</b> : UAMH 4571; IMI 247000 <b>sphaerale</b> : Culture obtained by Hawksworth and Jones (1981)	

	<i>Parmelina</i> <b>simplex</b> D. Hawksw.: on corticolous <i>Pertusaria</i> <b>sphaerale</b> (Ach.) Fr.: on saxicolous <i>Pertusaria</i> [mainly <i>P. corallina</i> ] <b>tephromelarum</b> Etayo & Calat.: on <i>Tephromela</i> <b>verrucisporum</b> Alstrup: on <i>Aspicilia</i>			
<i>Sessiliospora</i>	<b>bicolora</b> D. Hawksw.: foliicolous lichens	Hawksworth 1979a		
<i>Sphaeromma</i>	[ <i>furcatiseta</i> Matzer: on Porina = anamorph of <i>Keratosphaera furcatiseta</i> ] [ <i>mazosiae</i> H. B. P. Upadhyay: on <i>Mazosia</i> = anamorph of <i>Keratosphaera batistae</i> ] [ <i>porinae</i> Matzer: on <i>Porina</i> = anamorph of <i>Keratosphaera porinae</i> ]	Matzer 1996		
<i>Spilodochium</i>	<b>parmotrematis</b> Diederich & Etayo: on <i>Parmotrema</i>	Etayo & Diederich 1995		
<i>Sporhaplus</i>	[ <i>rondondiensis</i> H. B. P. Upadhyay: on <i>Mazosia</i> = anamorph of <i>Keratosphaera</i> <i>batistae</i> ]			
<i>Sporidesmiella</i>	<b>lichenophila</b> U. Braun & Heuchert: on <i>Ramalina stenospora</i>	Braun & Heuchert 2010		
<i>Sporidesmium</i>	<b>bacidiicola</b> Alstrup: on <i>Bacidia rubella</i> <b>lichenicola</b> Iturr., D. Hawksw. & J. L. Crane: on <i>Leptogium</i>	Alstrup (1991) Iturriaga et al. (2008)		
<i>Stromatopogon</i>	<b>baldwinii</b> Zahlbr.: on <i>Usnea</i> <b>cladoniae</b> Diederich & Sérus.: on <i>Cladonia</i> <b>geminatum</b> : on <i>Usnea</i>	Diederich 1992a Diederich & Sérusiaux 2003 Etayo & Breuss 2004		
<i>Stygiomyces</i>	<b>galliformis</b> Coppins & S. Y. Kondr.: on <i>Pseudocyphellaria</i>	Coppins & Kondratyuk 1995		
<i>Subhysteropycnis</i>	[ <i>maculiformans</i> Wedin & Hafellner: on <i>Pseudocyphellaria</i> = anamorph of <i>Arthonia</i> <i>badia</i> ]	Wedin & Hafellner 1998		

*Taeniolella*

**atricerebrina** Hafellner: on *Tephromela*  
**beschiana** Diederich: on *Cladonia*  
**breviuscula** (Berk. & M. A. Curtis) S.  
Hughes: facultative lichenicolous  
**caespitosa** M. S. Cole & D. Hawksw.: on  
*Pertusaria*  
**christiansenii** Alstrup & D. Hawksw.: on  
*Stereocaulon*  
**chrysothricis** Diederich: on *Chrysothrix*  
*candelaris*  
**cladinicola** Alstrup: on *Cladonia* subgen.  
*Cladina*  
**delicata** M. S. Christ. & D. Hawksw.: on  
various lichens  
**diederichiana** Etayo & Calat.: on *Placopsis*  
**friesii** (Hepp) Hafellner: on *Strigula*  
*stigmatella*  
**ionaspisicola** Alstrup & E. S. Hansen: on  
*Ionaspis odora*  
**pertusariicola** D. Hawksw. & H. Mayrh.: on  
*Pertusaria* and possibly other lichens  
**phaeophysciae** D. Hawksw.: on  
*Phaeophyscia orbicularis*, possibly also on  
*Physcia* and *Physconia*  
**pseudocyphellariae** Etayo: on  
*Pseudocyphellaria*  
**punctata** M. S. Christ. & D. Hawksw.: on  
*Graphis scripta*  
**rolfii** Diederich & Zhurb.: on *Cetraria* and  
*Cetrariella*  
**santessonii** Etayo & Heuchert: on *Roccellina*  
*cerebriformis*  
**serusiauxii** Diederich: on *Schismatomma*

Alstrup 1993b  
Alstrup & Hansen 2001  
Alstrup & Hawksworth 1990  
Cole & Hawksworth 2001  
Diederich 1990  
Diederich 1992b  
Diederich & Zhurbenko 1997  
Diederich & Zhurbenko 2001  
Etayo 2010b  
Etayo & Calatayud 2005  
Etayo & Sancho 2008  
Hafellner 1998b  
Hafellner 2007  
Hawksworth 1979a  
Zhurbenko & Alstrup 2004

	<i>decolorans</i> and sterile crustose lichens with <i>Trentepohlia</i> <b>strictae</b> Alstrup: on <i>Cladonia stricta</i> <b>trapeliopseos</b> Diederich: on <i>Trapeliopsis</i> <b>verrucosa</b> M. S. Christ. & D. Hawksw.: on <i>Arthonia pruinata</i>			
<i>Taeniolina</i>	<i>scripta</i> (P. Karst) P. M. Kirk: facultative lichenicolous on corticolous lichens	Diederich 1989 Hawksworth 1979a	<b>scripta</b> : CBS 114441	
<i>Talpapellis</i>	<b>peltigerae</b> Alstrup & M. S. Cole: on <i>Peltigera venosa</i>	Alstrup & Cole 1998		
<i>Teratosperma</i>	<b>anacardii</b> Hansf.: on foliicolous lichens <b>lichenicola</b> D. Hawksw.: on foliicolous lichens	Hawksworth 1979a		
<i>Trichoconis</i>	<b>lichenicola</b> D. Hawksw.: on <i>Peltigera collina</i>	Hawksworth 1980b		
<i>Trichothecium</i>	<i>roseum</i> (Pers. ex Fr.) Link ex Fr.: facultative lichenicolous	Hawksworth 1979a		
<i>Trimmatostroma</i>	<b>dendrographae</b> Diederich, Ertz, U. Braun & Heuchert: on <i>Dendrographa</i> <b>hierrense</b> Diederich & Ertz: on <i>Arthonia endligheri</i> <b>lecanoricola</b> Diederich, Etayo, U. Braun & Heuchert: on <i>Lecanora</i> <b>quercicola</b> Diederich, U. Braun & Heuchert: facultatively lichenicolous on sterile, corticolous, crustose lichens	Diederich et al. 2010		
<i>Vagnia</i>	<b>cirrififormis</b> D. Hawksw. & Miadl.: on <i>Peltigera</i>	Hawksworth & Miadlikowska 1997b		
<i>Verrucaster</i>	<b>lichenicola</b> Tobler: on <i>Cladonia</i>	Hawksworth 1981		
<i>Verrucocladosporium</i>	<b>dirinae</b> K. Schub., Aptroot & Crous: on <i>Dirina massiliensis</i> <b>roccellae</b> U. Braun, Diederich & Heuchert: on <i>Roccella</i>	Braun et al. 2009 Crous et al. 2007	<b>dirinae</b> : CBS 112794	
<i>Vouauxiella</i>	[ <i>caloplacae</i> Alstrup: on <i>Caloplaca</i> =?]	Alstrup 1993a	<b>lichenicola</b> : Culture obtained	

	<i>Lichenodiplis lecanorae</i> <b>lichenicola</b> (Lindsay) Petrak & H. Sydow: on <i>Lecanora</i> <b>pithospora</b> (Cavalc. & Silva) B. Sutton: on foliicolous lichens <b>verrucosa</b> (Vouaux) Petrak & H. Sydow: on <i>Lecanora</i>	Hawksworth 1981	by Crittenden et al. (1995)	
<i>Xanthoriicola</i>	<b>physciae</b> (Kalchbr.) D. Hawksw.: on <i>Xanthoria</i>	Hawksworth 1979a Hawksworth & Punithalingam 1973 Ruibal et al. 2011		<b>physciae</b> (CR4): nrLSU: <a href="#">JN040487</a> <b>physciae</b> (CR10): nrLSU: <a href="#">JN040488</a> <b>physciae</b> (CR20): nrLSU: <a href="#">JN040489</a> <b>physciae</b> (CR21): nrLSU: <a href="#">JN040490</a> <b>physciae</b> (CR22): nrLSU: <a href="#">JN040491</a> <b>physciae</b> (CR23): nrLSU: <a href="#">JN040492</a> <b>physciae</b> (CR44): nrLSU: <a href="#">JN040493</a> <b>physciae</b> (CR45): nrLSU: <a href="#">JN040494</a> <b>physciae</b> (CR50): nrLSU: <a href="#">JN040495</a> <b>physciae</b> (CR51): nrLSU: <a href="#">JN040496</a> <b>physciae</b> (CR58): nrLSU: <a href="#">JN040497</a>
<i>Zevadia</i>	<b>peroccidentalis</b> J. C. David & D. Hawksw.: on <i>Usnea</i>	David & Hawksworth 1995		

## Home

	Species	<a href="#">Significant literature</a>	Cultures (with accession numbers)	<a href="#">Sequences (with accession</a>
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	(lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )		when known; culture collection links)	numbers)
<b>BASIDIOMYCOTA</b>				
<b>Pucciniomycotina</b>				
<b>Agaricostilbales</b>				
Chionosphaeraceae				
<i>Chionosphaera</i>	cf. <b>apobasidialis</b> Cox: on various lichens <b>coppinsii</b> P. Roberts: on various lichens <b>lichenicola</b> Alstrup, Sutton & Tønberg: on various lichens	Kirschner et al. 2001 Roberts 1997 Diederich 1996		
<b>Platyglloeales</b>				
Platyglloeaceae				
<i>Cystobasidium</i>	<b>hypogymniicola</b> Diederich & Ahti: on <i>Hypogymnia</i> <b>usneicola</b> Diederich & Alstrup: on <i>Usnea</i>	Diederich 1996 Diederich & Christiansen 1994		

## Home

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
<b>BASIDIOMYCOTA</b>				
<b>Tremellomycetes</b>				
Syzygosporaceae				
<i>Syzygospora</i>	<b>bachmannii</b> Diederich & M. S. Christ.: on <i>Cladonia</i> <b>parmeliicola</b> Diederich: on <i>Hypotrachyna</i> <b>physciacearum</b> Diederich: on <i>Heterodermia</i> , <i>Physcia</i> and <i>Physconia</i>	Diederich 1996		<b>bachmannii</b> (CO213): nrSSU: JN043560; nrITS: JN053505; nrLSU: JN043612 <b>bachmannii</b> (AM72): nrSSU: JN043559; nrITS: JN053506;

				nrLSU: JN043613 <b>physciacearum</b> (AM17): nrSSU: JN043561; nrITS: JN053507; nrLSU: JN043614
Tremellaceae				
<i>Biatoropsis</i>	<b>usnearum</b> Räsänen: on <i>Protousnea</i> and <i>Usnea</i>	Diederich 1996 Diederich & Christiansen 1994	<b>usnearum</b> : CBS 110636 (sequence information indicates this strain is probably a contaminant); CBS 100997	<b>usnearum</b> (AA9): nrSSU: JN043540; nrITS: JN053486; nrLSU: JN043592 <b>usnearum</b> (AA10): nrSSU: JN043543; nrITS: JN053489; nrLSU: JN043595 <b>usnearum</b> (AM24): nrSSU: JN043542; nrITS: JN053488; nrLSU: JN043594 <b>usnearum</b> (CO294): nrSSU: JN043541; nrITS: JN053487; nrLSU: JN043593
<i>Tremella</i>	<b>caloplacae</b> (Zahlbr.) Diederich: on <i>Caloplaca</i> and <i>Xanthoria</i> <b>candelariellae</b> Diederich & Etayo: on <i>Candelariella</i> <b>cephalodiicola</b> Diederich on <i>Psoroma</i> <b>cetrariicola</b> Diederich & Coppins: on <i>Cetraria delisei</i> and <i>Tuckermannopsis</i> <b>christiansenii</b> Diederich: on <i>Physcia</i> <b>cladoniae</b> Diederich & M. S. Christ.: on <i>Cladonia</i> <b>coccocarpiae</b> Diederich: on <i>Coccocarpia</i> <b>coppinsii</b> Diederich & Marson: on <i>Platismatia</i> <b>dendrographae</b> Diederich & Tehler: on <i>Dendrographa</i> <b>everniae</b> Diederich: on <i>Evernia mesomorpha</i> <b>graphidastrae</b> Diederich: on <i>Graphidastra</i>	Diederich 1996 Diederich 2003 Diederich 2004d Diederich 2007a Diederich 2007b Sérusiaux et al. 2003 Millanes et al. 2011		<b>caloplacae</b> (AM32): nrSSU: JN043525; nrITS: JN053469; nrLSU: JN043574 <b>caloplacae</b> (AM31): nrITS: JN053468; nrLSU: JN043573 <b>candelariellae</b> (AM34): nrSSU: JN043526; nrITS: JN053470; nrLSU: JN043575 <b>cetrariicola</b> (AM111): nrSSU: JN043544; nrITS: JN053490; nrLSU: JN043596 <b>cetrariicola</b> (AM123): nrSSU: JN043545; nrITS: JN053491; nrLSU: JN043597 <b>christiansenii</b> (AM36): nrLSU: JN043577; <b>cladoniae</b> (AM84): nrSSU: JN043533; nrITS: JN053478;

**haematommatis** Diederich: on  
*Haematomma*  
**harrisii** Diederich: on *Polymeridium* and  
*Trypethelium*  
**hypocenomycis** Diederich: on  
*Hypocenomyce*  
**hypogymniae** Diederich & M. S. Christ.: on  
*Hypogymnia*  
**leptogii** Diederich: on *Leptogium*  
**lethariae**: on *Letharia vulpina*  
**lichenicola** Diederich: on *Mycoblastus*  
*fucatus*  
**lobariacearum** Diederich & M. S. Christ.:  
on *Lobaria* and *Pseudocyphellaria*  
**macroceratis** Diederich & Hafellner: on  
*Cladonia*  
**microcarpa** Diederich: on cf. *Megalospora*  
**monospora** Diederich: on *Leptogium*  
**montis-wilhelmii** Diederich: on  
*Normandina simodense*  
**nashii** Diederich: on *Usnea*  
**nephromatis** Diederich: on *Nephroma*  
**normandinae** Diederich: on *Normandina*  
*pulchella*  
**nieblae** Diederich: on *Niebla*  
**papuana** Diederich: on *Hypogymnia*  
**parmeliarum** Diederich: on *Parmotrema*  
**parmeliellae** Diederich & Sérusiaux: on  
*Parmeliella*  
**pertusariae** Diederich: on *Pertusaria*  
**phaeographidis** Diederich, Coppins &  
Bandoni: on *Phaeographis*  
**phaeographinae** Diederich & Aptroot: on

nrLSU: JN043584  
**cladoniae** (AM125): nrSSU:  
JN043532; nrITS: JN053477;  
nrLSU: JN043583  
**coppinsii** (AM38): nrSSU:  
JN043549; nrITS: JN053495;  
nrLSU: JN043601  
**coppinsii** (AM124): nrSSU:  
JN043550; nrITS: JN053496;  
nrLSU: JN043602  
**dendrographae** (AM39): nrITS:  
JN053471; nrLSU: JN043576  
**everniae** (AM1): nrSSU:  
JN043547; nrITS: JN053493;  
nrLSU: JN043599  
**haematommatis** (AM41): nrITS:  
JN053510; nrLSU: JN043617  
**hypogymniae** (AA7): nrSSU:  
JN043538; nrITS: JN053484;  
nrLSU: JN043590  
**hypogymniae** (AM122): nrSSU:  
JN043539; nrITS: JN053485;  
nrLSU: JN043591  
**leptogii** (AM81): nrSSU:  
JN043531; nrITS: JN053476;  
nrLSU: JN043582  
**lichenicola** (AM18): nrSSU:  
JN043558; nrITS: JN053504;  
nrLSU: JN043611  
**lobariacearum** (AM80): nrSSU:  
JN043528; nrITS: JN053473;  
nrLSU: JN043579  
**lobariacearum** (AM118): nrSSU:  
JN043529; nrITS: JN053474;  
nrLSU: JN043580  
**nephromatis** (AM133): nrSSU:

	<p><i>Phaeographina</i></p> <p><b>phaeophysciae</b> Diederich &amp; M. S. Christ.: on <i>Phaeophyscia</i></p> <p><b>protoparmeliae</b> Diederich &amp; Coppins: on <i>Protoparmelia</i></p> <p><b>psoroglaenae</b> Diederich: on <i>Psoroglaena</i></p> <p><b>psoromicola</b> Diederich: on <i>Psoroma</i></p> <p><b>ramalinae</b> Diederich: on <i>Ramalina</i></p> <p><b>rinodinae</b> Diederich &amp; M. S. Christ.: on <i>Rinodina</i></p> <p><b>santessonii</b> Diederich: on <i>Usnea</i></p> <p><b>stevensiana</b> Diederich: on <i>Usnea</i></p> <p><b>stictae</b> Diederich: on <i>Dendriscoaulon</i> and <i>Sticta</i></p> <p><b>sulcariae</b> Diederich &amp; M. S. Christ.: on <i>Sulcaria</i></p> <p><b>tuckerae</b> Diederich: on <i>Ramalina</i></p> <p><b>wirthii</b> Diederich: on <i>Protoparmelia</i></p>			<p>JN043530; nrITS: JN053475; nrLSU: JN043581</p> <p><b>parmeliarum</b> (AM120): nrSSU: JN043565; nrITS: JN053511; nrLSU: JN043618</p> <p><b>pertusariae</b> (AM2): nrSSU: JN043548; nrITS: JN053494; nrLSU: JN043600</p> <p><b>phaeophysciae</b> (AM98): nrITS: JN053479; nrLSU: JN043585</p> <p><b>phaeophysciae</b> (AM121): nrSSU: JN043534; nrITS: JN053480; nrLSU: JN043586</p> <p><b>ramalinae</b> (AM15): nrSSU: JN043567; nrITS: JN053513; nrLSU: JN043620</p> <p><b>ramalinae</b> (AM126): nrSSU: JN043566; nrITS: JN053512; nrLSU: JN043619</p> <p><b>tuckerae</b> (AM89): nrSSU: JN043536; nrITS: JN053482; nrLSU: JN043588</p> <p><b>wirthii</b> (AM90): nrSSU: JN043546; nrITS: JN053492; nrLSU: JN043598</p>
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## Home

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
<b>BASIDIOMYCOTA</b>				
<b>Agaricomycetes</b>				

<b>Agaricales</b>				
Hygrophoraceae				
<i>Arrhenia</i>	<b>peltigerina</b> (Peck) Redhead, Lutzoni, Moncalvo & Vilgalys: on <i>Peltigera</i>	Barrasa & Rico 2010 Collin & Lauron 1994 Garnier-Delcourt 2008 Orton 1977 Redhead et al. 2002 Santesson 1993a		
Tricholomataceae				
<i>Gamundia</i>	<i>leucophylla</i> (Fr.) H. E. Bigelow: doubtfully lichenicolous on moribund <i>Peltigera</i> cf. <i>leucophlebia</i> <b>striatula</b> (Kühner) Raitheh.: on <i>Cladonia</i> and <i>Peltigera</i> <i>xerophila</i> (Lüthi & Röllin) Raitheh.: doubtfully lichenicolous on <i>Peltigera</i>	Alstrup & Hawksworth 1990 Barrasa & Rico 2010 Moreau 2005		
<b>Atheliales</b>				
Atheliaceae				
<i>Athelia</i>	<i>alnicola</i> (Bourd. & Galz.) Jülich: facultative lichenicolous <b>arachnoidea</b> (Berk.) Jülich: on various lichens <i>epiphylla</i> Pers.: facultative lichenicolous <i>salicum</i> Pers.: facultative lichenicolous	Arvidsson 1976 Arvidsson 1978 Jülich 1972 Lawrey et al. 2007 Parmasto 1998	<b>arachnoidea</b> : ATCC 204277 <b>arachnoidea</b> : ATCC MYA-3672 (JL267-04) <b>arachnoidea</b> : CGMCC; CBS; FCUG <b>arachnoidea</b> : Culture obtained by Crittenden et al. (1995)	<b>arachnoidea</b> (strain 815): nrLSU: AF518601; nSSU: AF518572; mtSSU: AF518669; mtLSU: AF518702 <b>arachnoidea</b> (ATCC MYA-3672): nrSSU: DQ915454 <b>arachnoidea</b> (GEL 2529-1): nrLSU: AJ406484 <b>arachnoidea</b> (CCFC 210): mtSSU: U85804 <b>arachnoidea</b> (CBS 418.72): nr5.8S: U85792 <b>arachnoidea</b> (CCFC 212; 211; 210): nr5.8S: U85791
<b>Boletales</b>				
Coniophoraceae				

<i>Leucogyrophana</i>	<b>lichenicola</b> Thorn, Malloch & Ginns: on <i>Cladonia</i> and <i>Stereocaulon</i>	Lawrey et al. 2007 Thorn et al. 1998	<b>lichenicola</b> : Cultures obtained by Thorn et al. (1998) <b>lichenicola</b> : CCFC (DAOM) 194172 <b>lichenicola</b> : CCFC (DAOM) 212444	<b>lichenicola</b> (DAOM 212444): nrLSU: <a href="#">DQ915468</a>
<b>Corticiales</b>				
Corticiaceae				
<i>Laetisaria</i>	<b>lichenicola</b> Diederich, Lawrey & Van den Broeck: on <i>Physcia</i>	Diederich et al. 2011	<b>lichenicola</b> : CBS 128705 (Type culture)	<b>lichenicola</b> : (CBS 128705): nrITS + LSU: <a href="#">HQ168400</a> ; nrSSU: <a href="#">HQ168399</a>
<i>Marchandiobasidium</i>	<b>aurantiacum</b> Diederich & Schultheis: on <i>Physcia</i> and rarely other lichens	Diederich 1990 Diederich et al. 2003 Diederich & Lawrey 2007 Lawrey et al. 2008	<b>aurantiacum</b> : ATCC MYA-2502 <b>aurantiacum</b> : CBS 718.97	<b>aurantiacum</b> (ATCC MYA-2502): nrSSU: <a href="#">DQ915460</a> ; nrLSU: <a href="#">AY583330</a> ; nrITS: <a href="#">AY583324</a> <b>aurantiacum</b> (CBS 718.97): nrLSU: <a href="#">AY583330</a> ; nrSSU: <a href="#">AF289661</a>

<i>Marchandiomyces</i>	<p><b>buckii</b> Diederich &amp; Lawrey: on various lichens</p> <p><b>corallinus</b> (Roberge) Diederich &amp; D. Hawksw.: on various lichens</p>	<p>Diederich &amp; Lawrey 2007  Etayo &amp; Diederich 1996a  Hawksworth 1979a  Lawrey et al. 2007  Sikaroodi et al. 2001</p>	<p><b>buckii</b>: ATCC MYA-2992  TYPE CULTURE</p> <p><b>corallinus</b>: CBS 110635</p> <p><b>corallinus</b>: ATCC 200796</p> <p><b>corallinus</b>: ATCC 200797</p> <p><b>corallinus</b>: (JL128-98, M.S. Cole 7500, culture lost)</p> <p><b>corallinus</b>: ATCC MYA-1118</p> <p><b>corallinus</b>: ATCC MYA-1119</p> <p><b>corallinus</b>: ATCC MYA-1120</p> <p><b>corallinus</b>: ATCC MYA-1121</p> <p><b>corallinus</b>: ATCC MYA-1377</p> <p><b>corallinus</b>: ATCC MYA-1378</p> <p><b>corallinus</b>: ATCC MYA-1379</p> <p><b>corallinus</b>: ATCC MYA-1380</p> <p><b>corallinus</b>: ATCC MYA-2346</p> <p><b>corallinus</b>: ATCC MYA-2498</p> <p><b>corallinus</b>: ATCC MYA-2499</p> <p><b>corallinus</b>: ATCC MYA-2500</p> <p><b>corallinus</b>: ATCC MYA-2501</p> <p><b>corallinus</b>: ATCC MYA-2827</p> <p><b>corallinus</b>: ATCC MYA-2828</p> <p><b>corallinus</b>: ATCC MYA-2829</p> <p><b>corallinus</b>: ATCC MYA-2830</p> <p><b>corallinus</b>: ATCC MYA-3182</p> <p><b>corallinus</b>: ATCC MYA-3183</p> <p><b>corallinus</b>: ATCC MYA-3184</p> <p><b>corallinus</b>: ATCC MYA-3673</p> <p><b>corallinus</b>: ATCC MYA-4211</p>	<p><b>buckii</b> (ATCC MYA-2992):  nrLSU: <a href="#">DQ915472</a>; nrSSU: <a href="#">DQ915462</a></p> <p><b>corallinus</b> (ATCC 200796):  nrSSU: <a href="#">AF289660</a>; nrITS: <a href="#">AY583325</a></p> <p><b>corallinus</b> (JL128-98): nrLSU: <a href="#">AY583331</a>; nrITS: <a href="#">AY583326</a></p> <p><b>corallinus</b> (ATCC MYA-1118):  nrITS: <a href="#">AY583326</a></p> <p><b>corallinus</b> (ATCC MYA-2346):  nrSSU: <a href="#">DQ915457</a></p> <p><b>corallinus</b> (ATCC MYA_2500):  nrSSU: <a href="#">DQ915459</a></p> <p><b>corallinus</b> (ATCC MYA-3182):  nrSSU: <a href="#">DQ915464</a></p>
<b>Cantharellales</b>				
<i>Burgella</i>	<p><b>flavoparmeliae</b> Diederich &amp; Lawrey: on <i>Flavoparmelia baltimorensis</i></p>	<p>Lawrey et al. 2007  Diederich &amp; Lawrey 2007</p>	<p><b>flavoparmeliae</b>: ATCC MYA-2157 TYPE CULTURE</p>	<p><b>flavoparmeliae</b> (ATCC MYA-2157): nrLSU: <a href="#">DQ915469</a>; nrSSU: <a href="#">DQ915455</a></p>

<i>Burgoa</i>	<b>angulosa</b> Diederich, Lawrey & Etayo: on various lichens	Lawrey et al. 2007 Diederich & Lawrey 2007	<b>Burgoa-like sp.</b> (Diederich & Lawrey, 2007); ATCC 208870 <b>angulosa</b> : ATCC MYA-1121 TYPE CULTURE	<b>B. sp.</b> (ATCC 208870): nrSSU: <a href="#">AF289662</a> <b>angulosa</b> (ATCC MYA-1121): nrLSU: <a href="#">AY756069</a> ; nrSSU: <a href="#">AY756076</a> ; mtSSU: <a href="#">AY756072</a>
<i>Minimedusa</i>	<b>pubescens</b> Diederich, Lawrey & Heylen: on various lichens	Lawrey et al. 2007 Diederich & Lawrey 2007	<b>pubescens</b> : ATCC MYA-2993 TYPE CULTURE	<b>pubescens</b> (ATCC MYA-2993): nrLSU: <a href="#">AY756071</a> ; nrSSU: <a href="#">AY756079</a> ; mtSSU: <a href="#">AY756074</a>