

Mar 21 2015

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <b>culture collection links</b> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Abrothallales</b>				
Abrothallaceae				
<i>Abrothallus</i>	<b>acetabuli</b> Diederich: on <i>Pleurosticta acetabulum</i> <b>bertianus</b> De Not.: on <i>Melanelixia</i> <b>boomii</b> Pérez-Ortega & Suija: on <i>Nephroma</i> <b>brattii</b> (S. Y. Kondratyuk) Suija & Pérez-Ortega: on <i>Pseudocyphellaria faveolata</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>canariensis</b> Pérez-Ortega, van den Boom & Suija: on <i>Pseudocyphellaria aurata</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>doliiformis</b> Pérez-Ortega & Suija: on <i>Sticta</i> <b>eriodermae</b> Suija, Etayo & Pérez-Ortega: on <i>Erioderma</i> <b>ertzii</b> Suija & Pérez-Ortega: on <i>Lobaria pulmonaria</i> <b>etayoi</b> Pérez-Ortega & Suija: on <i>Sticta</i> <b>granulatae</b> Wedin: on <i>Pseudocyphellaria</i>	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 Pérez-Ortega et al. 2014 Suija 2006 Suija et al. 2011 Suija et al. 2015 Wedin 1994 Zhurbenko et al. 2012		<b>acetabuli:</b> (SPO308): ITS: <a href="#">KF816165</a> ; nrLSU: <a href="#">KF816232</a> ; nrSSU: <a href="#">KF816215</a> ; mtSSU: <a href="#">KF816205</a> ; <i>RPB2</i> : <a href="#">KF816194</a> ; <i>RPB1</i> : <a href="#">KF816192</a> ; <i>TEF1</i> : <a href="#">KF816188</a> <b>buellianus:</b> (SPO303): ITS: <a href="#">KF816166</a> ; nrLSU: <a href="#">KF816234</a> ; nrSSU: <a href="#">KF816217</a> ; mtSSU: <a href="#">KF816207</a> ; <i>RPB2</i> : <a href="#">KF816195</a> ; <i>RPB1</i> : <a href="#">KF816191</a> ; <i>TEF1</i> : <a href="#">KF816186</a> <b>caerulescens:</b> (SPOc80): ITS: <a href="#">HQ702852</a> <b>cladoniae:</b> (AB53): ITS: <a href="#">KF816173</a> ; nrLSU: <a href="#">KF816228</a> ; nrSSU: <a href="#">KF816220</a> ; <i>RPB2</i> : <a href="#">KF816200</a> ; <i>RPB1</i> : <a href="#">KF816190</a> ; <i>TEF1</i> : <a href="#">KF816181</a> <b>hypotrachynae:</b> (SPO302): ITS: <a href="#">KF816167</a> ; nrLSU: <a href="#">KF816233</a> ; nrSSU: <a href="#">KF816218</a> ; mtSSU: <a href="#">KF816208</a> ; <i>RPB2</i> : <a href="#">KF816196</a> <b>parmeliarum:</b> (AB36): ITS:

**halei** Pérez-Ortega, Suija, D. Hawksw. & R. Sant.: on *Lobaria*  
**hypotrachynae** Etayo & Diederich: on *Hypotrachyna*  
**kamchatica** (Zhurb. & Stepanchikova) Pérez-Ortega & Suija: on *Nephroma*  
**macrosporus** Etayo & R. Sant.: on *Durietzia*  
**microspermus** Tul.: on *Flavoparmelia caperata*  
**nephromatis** Suija & Pérez-Ortega: on *Nephroma*  
**parmeliarum** (Sommerf.) Nyl.: on *Parmelia*  
**parmotrematis** Diederich: on *Parmotrema*  
**peyritschii** (Stein) Kotte: on *Vulpicida*  
**pezizicola** Diederich & R.C. Harris: on *Cladonia peziziformis*  
**prodiens** (Harm.) Diederich & Hafellner: on *Hypogymnia*  
**secedens** Wedin & R. Sant.: on *Pseudocyphellaria*  
**stereocaulorum** Etayo & Diederich: on *Stereocaulon*  
**stictarum** Etayo: on *Sticta*  
**stroblii** Hafellner: on *Menegazzia terebrata*  
**suecicus** (Kirschst.) Nordin: on *Ramalina*  
**tulasnei** M.S. Cole & D. Hawksw.: on *Xanthoparmelia*  
**usneae** Rabenh.: on *Usnea*  
**usneae** var. **tetraspora** Etayo & Osorio: on *Usnea*

KF816172; nrLSU: KF816229; nrSSU: KF816222; *RPB2*: KF816201; *TEF1*: KF816182  
**parmeliarum**: (AB57): ITS: KF816178; nrLSU: KF816227; nrSSU: KF816221; mtSSU: KF816211; *RPB2*: KF816198; *TEF1*: KF816180  
**parmotrematis**: (AB1): ITS: KF816176; nrLSU: KF816231; nrSSU: KF816225; mtSSU: KF816214; *RPB2*: KF816204; *TEF1*: KF816185  
**secedens**: (SPO305): ITS: KF816169; nrLSU: KF816236; nrSSU: KF816216; mtSSU: KF816206  
**sp. 1**: (SP-2014): ITS: KF816168; nrLSU: KF816235; nrSSU: KF816219; mtSSU: KF816209; *RPB2*: KF816197; *RPB1*: KF816193; *TEF1*: KF816187  
**sp. 2**: (SP-2014): ITS: KF816175; nrLSU: KF816230; nrSSU: KF816224; mtSSU: KF816213; *RPB2*: KF816203; *TEF1*: KF816184  
**suecicus**: (AB56): ITS: KF816177; nrLSU: KF816226; mtSSU: KF816210; *RPB2*: KF816199; *TEF1*: KF816179  
**suecicus**: (SPO304): ITS: KF816171  
**usneae**: (AB20): ITS: KF816174; nrSSU: KF816223; mtSSU: KF816212; *RPB2*: KF816202;

	<b>welwitschii</b> Mont.: on <i>Sticta</i>			<i>RPBI</i> : KF816189; <i>TEFI</i> : KF816183 <b>usneae</b> : (SPO306): ITS: KF816170
Lichenocniaceae				
<i>Lichenocnium</i>	<p><b>aeruginosum</b> Diederich, M. Brand, van den Boom &amp; Lawrey: on <i>Cladonia</i></p> <p><b>cargillianum</b> (Linds.) D. Hawksw.: on <i>Letharia</i>, <i>Parmotrema</i>, <i>Platismatia</i>, <i>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>,</p>	<p>Alstrup &amp; Cole 1998</p> <p>Christiansen 1956</p> <p>Christiansen 1980</p> <p>Cole &amp; Hawksworth 2004</p> <p>Diederich 1986</p> <p>Hawksworth 1977b</p> <p>Hawksworth 1981</p> <p>Kalb et al. 1995</p> <p>Kondratyuk &amp; Galloway 1995b</p> <p>Kondratyuk et al. 1994</p> <p>Lawrey et al. 2011</p>	<p><b>aeruginosum</b>: CBS 129239</p> <p><b>erodens</b>: Culture obtained by Crittenden et al. (1995)</p> <p><b>erodens</b>: CBS 128028</p> <p><b>erodens</b>: CBS 128030</p> <p><b>erodens</b>: CBS 128704</p> <p><b>lecanorae</b>: Culture obtained by Crittenden et al. (1995)</p> <p><b>lecanorae</b>: CBS 128024</p> <p><b>sp.</b>: CBS 129139</p> <p><b>usneae</b>: CBS 128020</p>	<p><b>aeruginosum</b>: (CBS 129239, JL359-09): nrLSU: HQ174269; mtSSU: HQ174268</p> <p><b>erodens</b>: (JL363-09): nrLSU: HQ174267; mtSSU: HQ174266</p> <p><b>lecanorae</b>: (CBS 128024): nrLSU: HQ174263; mtSSU: HQ174262</p> <p><b>usneae</b>: (CBS 128020): nrLSU: HQ174265; mtSSU: HQ174264</p>

	also reported from <i>Caloplaca</i> , <i>Cetraria</i> , <i>Cetrelia</i> , <i>Heterodermia</i> , <i>Melanelia</i> , <i>Physcia</i> and <i>Teloschistes</i>			
<b>Asterinales</b>				
Genera incertae sedis				
<i>Buelliella</i>	<b>colombiana</b> Etayo: on <i>Phlyctis andensis</i> <b>dirinariae</b> Diederich: on <i>Dirinaria picta</i> <b>eximia</b> Kalb & Hafellner: on <i>Pyxine cocoes</i> <b>inops</b> (Triebel & Rambold) Hafellner: on <i>Caloplaca</i> <b>heppiae</b> van den Boom: on <i>Heppia</i> <i>arenacea</i> <b>lecanorae</b> Suija & Alstrup: on <i>Lecanora</i> <b>minimula</b> (Tuck.) Hafellner: on <i>Pertusaria</i> <b>physciicola</b> Poelt & Hafellner: on <i>Phaeophyscia</i> and <i>Physcia</i> <b>poetschii</b> Hafellner: on <i>Endocarpon</i> <b>protoparmeliopseos</b> Etayo & Pérez- Ortega: on <i>Lecanora</i> gr. <i>muralis</i> <b>pusilla</b> Hafellner: on <i>Brigantiaea</i> <i>leucoxantha</i> <b>trypethelii</b> (Tuck.) Hafellner: on <i>Trypethelium</i>	Aptroot et al. 1997 Ertz & Diederich 2015 Etayo 2002a Hafellner 1979 Hafellner 1985b Hafellner et al. 2008 Kalb 1990 Pérez-Ortega & Etayo 2010 Suija & Alstrup 2004 van den Boom 2010		
<i>Hemigrapha</i>	<b>asteriscus</b> (Müll. Arg.) D. Hawksw.: on <i>Peltigera</i> <b>atlantica</b> Diederich & Wedin: on <i>Sticta</i> <i>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>	Cáceres & Lücking 2000 Diederich & Wedin 2000 Eriksson et al. 2001 Ertz & Diederich 2015 Hawksworth 1975b Matzer 1996		

	<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>			
<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 Ertz & Diederich 2015 Hafellner 1979 Santesson 1994a		
<i>Labrocarpon</i>	<b>canariense</b> (D. Hawksw.) Etayo & Pérez-Ortega: on <i>Pertusaria</i>	Ertz & Diederich 2015 Hawksworth 1982b Pérez-Ortega & Etayo 2010		
<i>Melanographa</i>	<b>tribuloides</b> (Tuck.) Müll. Arg.: on <i>Anthracotheccium</i> and <i>Pyrenula</i>	Ertz & Diederich 2015		
<i>Melaspilea</i> s. lat.	<b>cupularis</b> Müll. Arg.: on <i>Pyrenula</i> <b>epigena</b> Müll. Arg.: on <i>Reimnitzia santensis</i> <b>epigraphella</b> (Nyl.) Müll. Arg.: on <i>Acanthoheccis consocians</i> <b>galligena</b> Zhurb. & I. Zhdanov.: on <i>Pertusaria</i> <b>leciographoides</b> Vouaux: on <i>Verrucaria</i> <b>lekae</b> Brackel & Kalb: on <i>Sarcographa</i> <b>tucumana</b> Flakus, Etayo & Kukwa: on <i>Pertusaria</i>	Clauzade et al. 1989 Ertz & Diederich 2015 Flakus et al. 2014 Kalb et al. 2012 Zhurbenko & Zhdanov 2013		
<i>Melaspileopsis</i>	cf. <b>diplasiozona</b> (Nyl.) Ertz & Diederich: on <i>Graphis elegans</i>	Ertz & Diederich 2015		
<i>Stictographa</i>	<b>lentiginosa</b> (Leight.) Müll. Arg.: on <i>Phaeographis dendritica</i>	Ertz & Diederich 2015		
<b>Capnodiales</b>				
Cladosporiaceae				
<i>Cladosporium</i>	<b>arthoniae</b> M. S. Christ. & D. Hawksw.: on corticolous lichens with <i>Trentepohlia</i>	Diederich 1989 Hawksworth 1979a Heuchert & Braun 2006		<b>licheniphilum</b> : (CPC 13224): ITS: <a href="#">NR_119847</a> <b>licheniphilum</b> : (CBS 125990):

	<b>licheniphilum</b> Heuchert & U. Braun: on <i>Pertusaria</i> and <i>Thamnolia</i>	Zhurbenko 2012		ITS: <a href="#">HM148111</a> ; <i>TEF1</i> : <a href="#">HM148355</a> ; actin: <a href="#">HM148600</a>
<i>Verrucocladosporium</i>	<b>dirinae</b> K. Schub., Aptroot & Crous: on <i>Dirina massiliensis</i> <b>rocellae</b> U. Braun, Diederich & Heuchert: on <i>Rocella</i>	Braun et al. 2009 Crous et al. 2007	<b>dirinae</b> : CBS 112794	<b>dirinae</b> : (CBS 112794): ITS: <a href="#">EU040244</a>
Dissoconiaceae				
<i>Ramichloridium</i>	<b>cladoniicola</b> U. Braun & Heuchert: on <i>Cladonia portentosa</i>	Braun et al. 2009		
Mycosphaerellaceae				
<i>Pseudocercospora</i>	<b>lichenum</b> (Keissl.) D. Hawksw.: on <i>Haematomma cismonicum</i>	Etayo 2002 Hawksworth 1979a		
<i>Sphaerulina</i> s. lat.	<b>dolichotera</b> (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</i> <i>decolorans</i> ] <b>lepidiotae</b> (Anzi) Vain.: on <i>Fuscopannaria</i> <i>praetermissa</i>	Clauzade et al. 1989		
<i>Wernerella</i>	<b>acarosporae</b> Etayo: on <i>Acarospora</i> <i>nodulosa</i> <b>maheui</b> (Werner) Nav.-Ros., Cl. Roux & Giralt: on <i>Rinodina</i>	Etayo 2010c Navarro-Rosinés et al. 1996 Navarro-Rosinés et al. 1998d		
Capnodiales incertae sedis				
<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:

				JN040490 <b>physciae</b> (CR22): nrLSU: JN040491 <b>physciae</b> (CR23): nrLSU: JN040492 <b>physciae</b> (CR44): nrLSU: JN040493 <b>physciae</b> (CR45): nrLSU: JN040494 <b>physciae</b> (CR50): nrLSU: JN040495 <b>physciae</b> (CR51): nrLSU: JN040496 <b>physciae</b> (CR58): nrLSU: JN040497 <b>physciae</b> (Diederich 16713): nrLSU: KF176965; mtSSU: KF176990
<b>Dothideales</b>				
Aureobasidiaceae				
<i>Pseudoseptoria</i>	<b>usneae</b> (Vouaux) D. Hawksw.: on <i>Usnea</i>	Hawksworth 1981		
Dothideaceae				
<i>Plowrightia</i>	<b>mereschkowskyi</b> Vouaux: on <i>Aspicilia hispida</i>	Clauzade et al. 1989		
<b>Lichenotheliales</b>				
Lichenotheliaceae				
<i>Lichenothelia</i>	<i>convexa</i> Henssen: facultative lichenicolous over siliceous rocks <b>renobalesiana</b> D. Hawksw. & V. Atienza: on endolithic Verrucariaceae ( <i>Bagliettoa</i> , <i>Thelidium</i> , <i>Verrucaria</i> ) over calcareous rocks <b>rugosa</b> (G. Thor) Ertz & Diederich: on	Atienza & Hawksworth 2008 Etayo 2010c Ertz et al. 2014 Kocourková & Knudsen 2011b		<i>convexa</i> : (Diederich 17491): nrLSU: KF176962; mtSSU: KF176988 <i>convexa</i> : (L1609): nrSSU: KC015086 <i>convexa</i> : (L1608): nrSSU: KC015085 <i>convexa</i> : (L1607): nrSSU:

	<p><i>Diploschistes</i>  <b>spiralispora</b> Etayo [as '<i>spiratispora</i>']: on  <i>Acarospora sphaerospora</i></p>			<p>KC015084  <i>convexa</i>: (L1606): nrSSU:  KC015083  <i>convexa</i>: (L1702): nrLSU:  KC015072  <b>rugosa</b>: (Ertz 16065): nrLSU:  KF176964  <b>rugosa</b>: (Diederich 17310):  nrLSU: KF176963; mtSSU:  KF176989  <b>sp.</b>: (L986): nrSSU: KC015089  <b>sp.</b>: (L985): nrSSU: KC015088  <b>sp.</b>: (L984): nrSSU: KC015087</p>
<p><i>Lichenostigma</i> s. lat. (see under  Lichenostigmatales for  <i>Lichenostigma</i> s.str.)</p>	<p><b>amplum</b> Calat. &amp; Hafellner: on <i>Buellia</i>  <b>anatolicum</b> Halici &amp; Kocakaya: on brown  <i>Acarospora</i>  <b>bolacinae</b> Nav.-Ros., Calat. &amp; Hafellner: on  <i>Caloplaca bolacina</i>  <b>canariense</b> Etayo &amp; van den Boom: on  <i>Aspicilia calcarea</i>  <b>cosmopolites</b> Hafellner &amp; Calat.: on  <i>Xanthoparmelia</i>  <b>dimelaenae</b> Calat. &amp; Hafellner: on  <i>Dimelaena oreina</i>  <b>diploiciae</b> Calat., Nav.-Ros. &amp; Hafellner: on  <i>Diploicia subcanescens</i>  <b>elongatum</b> Nav.-Ros. &amp; Hafellner: on  <i>Aspicilia</i> and <i>Lobothallia</i>  <b>epipolinum</b> Nav.-Ros., Calat. &amp; Hafellner:  on <i>Diplotomma epipolium</i>  <b>epirupestre</b> Pérez-Ortega &amp; Calat.: on  <i>Pertusaria pertusa</i>  <b>episulphurella</b> Etayo &amp; van den Boom: on  <i>Lecanora sulphurella</i></p>	<p>Alstrup &amp; Hawksworth 1990  Calatayud &amp; Barreno 2003  Calatayud &amp; Navarro-Rosinés  2000  Calatayud et al. 2002  Calatayud et al. 2004  Etayo &amp; Sancho 2008  Fernández-Brime et al. 2010  Hafellner 1982a  Hafellner 1999  Hafellner &amp; Calatayud 1999  Halici &amp; Hawksworth 2007  Halici et al. 2009  Harris &amp; Lendemer 2009  Ihlen 2004  Konratyuk et al. 2013  Navarro-Rosinés &amp; Hafellner  1996  Pérez-Ortega &amp; Calatayud 2009  Thor 1985  van den Boom &amp; Etayo 2006  Valadbeigi &amp; Brackel 2011  Vondrák &amp; Šoun 2007</p>		



	<p><b>gracile</b> Calat., Nav.-Ros. &amp; Hafellner: on <i>Acarospora fuscata</i></p> <p><b>heterodermiae</b> S. Y. Kondr., L. Lökös et J.-S. Hur: on <i>Heterodermia</i></p> <p><b>iranicum</b> Brackel &amp; Valadbeigi: on <i>Lobothallia praeradiosa</i></p> <p><b>lecanorae</b> Calat. &amp; Nav.-Ros.: on <i>Lecanora farinacea</i></p> <p><b>radicans</b> Calat. &amp; Barreno: on <i>Aspicilia</i></p> <p><b>rouxii</b> Nav.-Ros., Calat. &amp; Hafellner: on <i>Squamarina</i></p> <p><b>rupicolae</b> Fern.-Brime &amp; Nav.-Ros.: on <i>Pertusaria rupicola</i></p> <p><b>saxicola</b> Knudsen ...: on ...</p> <p><b>semi-immersum</b> Hafellner: on <i>Buellia</i></p> <p><b>subradians</b> Hafellner, Calat. &amp; Nav.-Ros.: on <i>Acarospora</i></p> <p><b>supertegentis</b> Ihlen &amp; R. Sant.: on <i>Aspicilia 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>			
<b>Patellariales</b>				
Patellariaceae				
<i>Stratisporella</i>	<p><b>episemoides</b> (Nyl.) Hafellner: on <i>Enterographa</i></p>	<p>Aptroot et al. 1997 Hafellner 1979 Kutorga &amp; Hawksworth 1997</p>		
<i>Tryblidaria</i>	<p><b>capensis</b> (Stizenb.) Vouaux: on <i>Buellia callaina</i></p>	<p>Clauzade et al. 1989</p>		
<b>Pleosporales</b>				

Cucurbitariaceae				
<i>Pyrenochaeta</i>	<b>collematis</b> Vouaux: on <i>Collema tenax</i> <b>xanthoriae</b> Diederich: on <i>Xanthoria</i>	Clauzade et al. 1989 Diederich 1990 Hafellner 1982a		
<i>Pyrenochaetopsis</i>	<i>microspora</i> (Gruyter & Boerema) Gruyter, Aveskamp & Verkley: facultative lichenicolous on <i>Buellia</i>	de Gruyter et al. 2010	<i>microspora</i> : CBS 101333	<i>microspora</i> (CBS 101333): nrLSU: <a href="#">GQ387630</a>
Didymellaceae				
<i>Ascochyta</i>	<b>santessonii</b> Alstrup & D. Hawksw.: on <i>Phaeophyscia sciastra</i> <b>candelarielicola</b> D. Hawksw. & Kalb: on <i>Candelariella aurella</i>	Alstrup & Hawksworth 1990 Hawksworth & Kalb 1992		
<i>Epicoccum</i>	<i>nigrum</i> Link: facultative lichenicolous over various lichens	David & Hawksworth 1995 Diederich 2004b	<i>nigrum</i> (syn. <i>E.</i> <i>purpurascens</i> ): ACM; FRR; JCT; WAC; MUCL; URM; CCFC; CCM; VTT; LCP; DSMZ; DUM; ITCC; IFO; JCM; MAFF; ICMP; VKM; BCRC; ARS (NRRL); NCAM	<i>nigrum</i> : 131 nucleotide sequences and 11 protein sequences in GenBank
<i>Leptosphaerulina</i>	<b>peltigerae</b> (Fuckel) Riedl: on <i>Peltigera</i>	Hawksworth 1980b		
<i>Microsphaeropsis</i>	<b>caloplacae</b> Etayo & Yazici: on <i>Caloplaca</i> <b>lichenicola</b> Etayo: on <i>Pannaria</i> <b>physciae</b> Brackel: on <i>Physcia</i>	Brackel 2014 Etayo & Sancho 2008 Etayo & Yazici 2009		
Leptosphaeriaceae				
<i>Leptosphaeria</i> s. lat.	<b>clarkii</b> D. Hawksw.: on <i>Peltigera</i> <b>protousneae</b> Etayo: on <i>Protousnea</i> <b>pycnostigma</b> (Nyl.) Sacc. & D. Sacc.: on <i>Baeomyces</i> <b>ramalinae</b> (Desm.) Sacc.: on <i>Ramalina</i>	Clauzade et al. 1989 Etayo & Sancho 2008 Hawksworth 1980b		
Phaeosphaeriaceae				
<i>Ophiobolus</i> s. lat.	<b>aspiciliae</b> (H. Olivier) Vouaux: on <i>Aspicilia</i>	Clauzade et al. 1989		
Pleomassariaceae				

<i>Lichenopyrenis</i>	<b>galligena</b> Calat., M. J. Sanz & Aptroot: on <i>Leptochidium albociliatum</i>	Calatayud et al. 2001b		
Pleosporaceae				
<i>Pleospora</i>	<b>collematum</b> Zukai: on Collemataceae <b>crozalsii</b> Vouaux: on <i>Sticta sylvatica</i> <b>physciae</b> (Brackel) Hafellner & E. Zimm.: on <i>Physcia</i> <b>tretiachii</b> Hafellner: on <i>Aspicilia</i> [= <i>Pleospora aquatica</i> Tretiach & Nimis, non Griffiths] <b>‘Verrucaria’ congestula</b> Cromb.: on <i>Placopsis macrophthalma</i> [a taxon of uncertain position]	Brackel 2010a Clauzade et al. 1989 Hafellner & Zimmermann 2012 Tretiach & Nimis 1999		
Trematosphaeriaceae				
<i>Trematosphaeria</i>	<b>lophiostoma</b> Choisy & Werner: on <i>Staurothele</i>	Clauzade et al. 1989		
Pleosporales incertae sedis				
<i>Berkleasmium</i>	<b>parmeliellae</b> Etayo & Diederich: on <i>Parmeliella testacea</i>	Etayo & Diederich 1995		
<i>Ellisembia</i>	<b>lichenicola</b> Heuchert & U. Braun: on <i>Pertusaria</i> and <i>Physconia</i>	Heuchert & Braun 2006		
<i>Pseudopyrenidium</i>	<b>tartaricola</b> (Linds.) Alstrup & D. Hawksw.: on <i>Ochrolechia</i>	Alstrup & Hawksworth 1990 Navarro-Rosinés et a. 2010		
<b>Tubeufiales</b>				
Tubeufiaceae				
<i>Tubeufia</i>	<b>eriodermiae</b> Etayo: on <i>Erioderma</i> <b>heterodermiae</b> Etayo: on <i>Heterodermia</i> and <i>Physcia</i> <b>pannariae</b> Etayo: on <i>Pannaria rubiginosa</i>	Etayo 2002a Etayo 2002b		
<b>Venturiales</b>				
Venturiaceae				
<i>Spilodochium</i>	<b>parmotrematis</b> Diederich & Etayo: on	Etayo & Diederich 1995		

	<i>Parmotrema</i>			
<b>Dothideomycetes 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. lat.</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>placopsiophilum</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>	<p><b>hypocenomycis</b>: Culture obtained by Crittenden et al. (1995)</p>	
<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>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>Zhurbenko 2012</p>		

	<p><b>muralicola</b> Halıcı &amp; D. Hawksw.: on <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> Halıcı, Candan &amp; Calat.: on <i>Aspicilia rufescentis</i> (Vouaux) D. Hawksw.: on <i>Peltigera</i></p> <p><b>thamnoliicola</b> Zhurb. <i>ad int.</i>: on <i>Thamnia</i></p> <p><b>xanthomendozae</b> Etayo &amp; Halıcı: on <i>Xanthomendoza</i></p>			
<i>Homostegia</i>	<p><b>dermatocarponis</b> [as <i>dermatocarpae</i>] Alstrup &amp; M. S. Cole: on <i>Dermatocarpon</i></p> <p><b>hertelii</b> D. Hawksw., V. Atienza &amp; M. S. Cole: on <i>Flavoparmelia caperata</i></p> <p><b>piggottii</b> (Berk. &amp; Broome) P. Karst.: on <i>Parmelia</i> s. str.</p>	Alstrup & M. S. Cole 1998 Hawksworth et al. 2004		
<i>Polycoccum</i>	<p><b>acarosporicola</b> Halıcı &amp; D. Hawksw.: on <i>Acarospora cervina</i></p> <p><b>aksoyi</b> Halıcı &amp; V. Atienza: on <i>Aspicilia alboatrae</i> (Vouaux) Etayo: on <i>Diplotomma venustum</i></p> <p><b>amygdalariae</b> F. Berger &amp; Triebel: on <i>Amygdalaria</i></p> <p><b>anatolicum</b> Halıcı &amp; E.Akgül: on <i>Lepraria incana</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>cartilaginosum</b> (Arnold) D. Hawksw.: on</p>	Alstrup 2002 Aptroot et al. 1997 Atienza & Hawksworth 2008 Atienza et al. 2003 Berger 2000 Calatayud 2004 Calatayud & Atienza 2000 Calatayud & Rambold 1998 Calatayud & Rico 1995 Clauzade et al. 1989 Diederich 1990 Etayo 1996 Etayo 2010b Etayo 2010c Etayo & Diederich 1998 Etayo & Sancho 2008 Galloway 2004 Gaya & Navarro-Rosinés 2008	<b>peltigerae</b> : CBS 112.77	<b>vermicularium</b> : nrLSU: AY961601

an unidentified saxicolous lichen?  
**cladoniae** Diederich & D. Hawksw.: on  
*Cladonia*  
**clauzadei** Nav.-Ros. & Cl. Roux: on  
*Xanthoria elegans*  
**crassum** Vězda: on *Peltigera*  
**crespoae** Váczi & D. Hawksw.: on  
*Chondropsis*  
**decolorans** Calat. & Triebel: on  
*Immersaria*  
**deformans** R. Sant., nom. nud.: on  
*Placopsis*  
**dictyonematis** Etayo & R. Sant.: on  
*Dictyonema*  
**diederichianum** Nav.-Ros.: on  
*Placynthium*  
**dzieduszyckii** (Boberski) D. Hawksw.: on  
*Bagliettoa*  
**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*  
**hymeniicola** (Berk. & Broome) Zhurb.: on  
*Lobaria*  
**ibericum** Etayo & van den Boom: on  
*Rinodina*  
**infestans** (Speg.) Etayo: on *Teloschistes*  
**innatum** (Müll. Arg.) D. Hawksw.: on an  
unidentified corticolous lichen

Halici et al. 2007  
Halici et al. 2009  
Halici et al. 2013  
Hawksworth 1985b  
Hawksworth 1994  
Hawksworth & Diederich 1988  
Hawksworth & Miadlikowska  
1997a  
Kocourková & Berger 1999  
Kondratyuk 2008  
Lord et al. 2013  
Matzer 1996  
Navarro-Rosinés 1992  
Navarro-Rosinés & Roux 1990  
Navarro-Rosinés & Roux 1998  
Váczi & Hawksworth 2001  
van den Boom 2010  
van den Boom & Etayo 2014  
Zhurbenko 2007b  
Zhurbenko 2010b  
Zhurbenko & Dillman 2010

**jamesii** D. Hawksw.: on *Psoromidium*  
**kaernefeltii** S. Y. Kondr.: on *Teloschistes*  
**kernerii** 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*  
**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

	<p><i>Placopsis</i>  <b>stictaria</b> (Linds.) D.J. Galloway: on  <i>Pseudocyphellaria</i>  <b>superficiale</b> D. Hawksw. &amp; Miädl.: on  <i>Peltigera</i>  <b>teresum</b> Halici &amp; K. Knudsen: on  <i>Xanthoria</i>  <b>tinantii</b> Diederich: on <i>Caloplaca</i>  <b>trypethelioides</b> (Th. Fr.) R. Sant.: on  <i>Stereocaulon</i>  <b>umbilicariae</b> (Linds.) D. Hawksw.: on  <i>Lasallia</i>  <b>ventosicola</b> Zhurb.: on <i>Ophioparma</i>  <i>ventosa</i>  <b>vermicularium</b> (Linds.) D. Hawksw.: on  <i>Thamnolia</i>  <b>versisporum</b> (Bagl. &amp; Carestia) D.  Hawksw.: on <i>Rhizocarpon geographicum</i>  and an unidentified saxicolous lichen</p>			
<i>Pseudonitschkia</i>	<p><b>parmotrematis</b> Coppins &amp; S. Y. Kondr.:  on <i>Parmotrema</i></p>	Coppins & Kondratyuk 1995		
<i>Pyrenidium</i>	<p><b>actinellum</b> Nyl.: on <i>Leptogium</i>  <b>aggregatum</b> Knudsen &amp; 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. &amp; R.  Sant.: on <i>Placopsis</i>  <b>octosporum</b> Looman: on an unidentified  lichen  <b>santessonii</b> Lücking: on <i>Bacidia</i></p>	<p>Alstrup &amp; Hawksworth 1990  Looman 1962  Lücking 1998  Matzer 1996</p>		



	<p><i>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></p>			
<i>Weddellomyces</i>	<p><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. &amp; Cl. Roux: on  <i>Caloplaca erythrocarpa</i>  <b>gasparrinae</b> (C.W. Dodge) D. Hawksw. &amp;  Iturr.: on ?<i>Caloplaca</i>  <b>geographicola</b> (Arnold) Alstrup &amp; D.  Hawksw.: on <i>Rhizocarpon</i>  <b>heterochrous</b> Nav.-Ros. &amp; Cl. Roux: on  <i>Aspicilia</i>  <b>macrosporus</b> D. Hawksw., Renob. &amp;  Coppins: on <i>Aspicilia calcarea</i>  <b>pachyosporicola</b> Nav.-Ros. &amp; Cl. Roux:  on <i>Aspicilia</i>  <b>periphericus</b> (Taylor) Alstrup &amp; D.  Hawksw.: on <i>Pertusaria pseudocorallina</i>  <b>protearius</b> Nav.-Ros. &amp; Cl. Roux: on  <i>Caloplaca proteus</i>  <b>turcicus</b> Halıcı &amp; Orange: on <i>Acarospora</i>  <b>xanthoparmeliae</b> Calat. &amp; Nav.-Ros.: on  <i>Xanthoparmelia</i></p>	<p>Alstrup 1992  Alstrup &amp; Hawksworth 1990  Calatayud &amp; Navarro-Rosinés  1998  Halıcı et al. 2006  Hawksworth 1978a  Hawksworth 1986  Hawksworth 1990a  Hawksworth &amp; Iturriaga 2006  Navarro-Rosinés &amp; Roux 1995  Navarro-Rosinés &amp; Roux 1997b</p>		
<i>Macrographa</i>	<p><b>antarctica</b> Etayo: on <i>Nephroma</i>  <i>antarcticum</i></p>	Etayo & Sancho 2008		
Naetrocymbaceae				
<i>Leptorhaphis</i>	<p><b>haematommatum</b> Hafellner &amp; Kalb: on  <i>Haematomma</i></p>	Kalb et al. 1995		
Pseudoperisporiaceae				

<i>Epibryon</i>	<p><b>conductrix</b> (Norman) Nik.Hoffm. &amp; 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</i></p> <p><b>parvipunctum</b> (Stein) Diederich: on <i>Thelidium</i></p> <p><b>solorinae</b> (Vain.) Nik. Hoffm. &amp; Hafellner: on <i>Solorina</i></p>	<p>Hoffmann &amp; Hafellner 2000 Matzer 1996 Sérusiaux et al. 1999</p>		
<i>Keratosphaera</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>furcatiseta</b> Matzer: on foliicolous <i>Porina</i> [anamorph: <i>Sphaeromma furcatiseta</i> Matzer]</p> <p><b>porinae</b> Matzer: on foliicolous <i>Porina</i> [anamorph: <i>Sphaeromma porinae</i> Matzer]</p>	<p>Matzer 1996</p>		
<i>Myxophora</i>	<p><b>apotheciicola</b> Nik. Hoffm. &amp; Hafellner: on <i>Leptogium azureum</i></p> <p><b>leptogiophila</b> (G. Winter) Nik. Hoffm. &amp; Hafellner: on <i>Collema</i> and <i>Leptogium plicatile</i></p> <p><b>ovalispora</b> Nik. Hoffm. &amp; Hafellner: on <i>Collema</i></p> <p><b>placynthii</b> Nik. Hoffm. &amp; Hafellner: on <i>Placynthium caesium</i></p> <p><b>tetraspora</b> Nik. Hoffm. &amp; Hafellner: on <i>Collema flaccidum</i></p>	<p>Hoffmann &amp; Hafellner 2000</p>		
<i>Neocoleroa</i>	<p><b>inundata</b> (Vain.) Diederich: on <i>Bacidina</i></p>	<p>Barr 1997</p>		

	<p><b>lichenicola</b> (Hansf.) M. E. Barr. subsp.  <b>lichenicola</b>: on a foliicolous lichen</p> <p><b>lichenicola</b> (Hansf.) M. E. Barr. subsp.  <b>bouteillei</b> (Bricaud, Cl. Roux &amp; Sérus.)  Barr: on <i>Fellhanera bouteillei</i>, <i>Byssoloma</i>  and possibly <i>Bacidina</i></p>	<p>Hawksworth 1980b  Matzer 1996  Roux et al. 1994  Sérusiaux et al. 1999</p>		
Trichothyriaceae				
<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>heppiae</b> van den Boom: on <i>Heppia</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><b>hypogymniae</b> Diederich: on <i>Hypogymnia</i>  <i>zeylanica</i></p> <p><b>hypotrachynae</b> Diederich: on  <i>Hypotrachyna</i></p> <p><b>leprosulae</b> Pérez-Ortega &amp; T. Sprib.: on</p>	<p>Aptroot et al. 1997  Brackel 2011b  Cole &amp; Hawksworth 2002  Earland-Bennett &amp; Hawksworth  1999b  Etayo 2010b  Etayo &amp; Diederich 1996b  Etayo &amp; Sancho 2008  Hansen &amp; Alstrup 1995  Hariharan et al. 1996  Matzer 1996  Molitor &amp; Diederich 1997  Pérez-Ortega &amp; Spribille 2009  Santesson 1988  Santesson 1989  Santesson 1998  Santesson 2001  van den Boom &amp; Giralt 2012  Zhurbenko 2010a</p>		

	<p><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>rangiferinae</b> Brackel: on <i>Cladonia</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>			
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>Biciliopsis</i>	<b>leptogiicola</b> Diederich: on <i>Leptogium</i>	Aptroot et al. 1997 Hoffmann & Hafellner 2000		
<i>Cercidospora</i>	<b>alpina</b> Ihlen & Wedin: on <i>Stereocaulon cumulatum</i> <b>anomala</b> Etayo: on <i>Pertusaria pertusa</i> <b>caudata</b> Kernst.: on <i>Caloplaca</i> <b>cecidiformans</b> Grube & Hafellner: on <i>Rhizocarpon</i> <b>cephalodiorum</b> Triebel & Grube: on <i>Pilophorus dovrensis</i> <b>cladoniicola</b> Alstrup: on <i>Cladonia arbuscula</i> <b>crozalsiana</b> (H. Olivier) Nav.-Ros., Cl. Roux & Casares: on <i>Squamarina</i> <b>decolorella</b> (Nyl.) O. Eriksson & Yue: on terricolous algae, mosses and lichens <b>epicallopisma</b> Arnold: on <i>Caloplaca aurantia</i> <b>epicarphinea</b> (Nyl.) Grube & Hafellner: on <i>Caloplaca</i> gr. <i>carphinea</i> <b>epipolytropa</b> (Mudd) Arnold: on <i>Lecanora</i> <b>epithamnolia</b> Zhurb.: on <i>Thamnolia</i> <b>exiguella</b> (Nyl.) Arnold: on <i>Rinodina mniaraea</i> <b>galligena</b> Hafellner & Nav.-Ros.: on <i>Aspicilia</i> <b>lecidomae</b> Zhurb. & Triebel: on <i>Lecidoma demissum</i> <b>lobothalliae</b> Nav.-Ros. & Calat.: on <i>Lobothallia</i> <b>macrospora</b> (Uloth) Hafellner & Nav.-Ros.: on <i>Lecanora muralis</i> <b>melanophthalmae</b> Nav.-Ros., Calat. &	Alstrup 1997 Alstrup et al. 1994 Clauzade et al. 1989 Etayo 2010a Hafellner 1987b Hafellner 1993 Hafellner & Obermayer 1995 Ihlen 1995 Ihlen 1998 Ihlen & Wedin 2007 Navarro-Rosinés et al. 1995 Navarro-Rosinés et al. 2004 Navarro-Rosinés et al. 2009 Triebel 1989 Triebel & Scholz 2001 Zhurbenko 2010b Zhurbenko 2012 Zhurbenko & Triebel 2003 Zhurbenko et al. 1995		

	<p>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 pluriseptata</i> (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>thamnogalloides</b> Zhurb.: on <i>Thamnolia thamnoliae</i> Zhurb.: on <i>Thamnolia thamnoliicola</i> Ihlen: on <i>Thamnolia trypetheliza</i> (Nyl.) Hafellner &amp; Obermayer [= <i>C. arthrorhaphidicola</i> Alstrup]: on <i>Arthrorhaphis alpina</i></p> <p><b>verrucosaria</b> (Linds.) Arnold: on <i>Megaspora wernerii</i> Nav.-Ros., Calat. &amp; Hafellner: on <i>Aspicilia xanthoriae</i> (Wedd.) R. Sant.: on <i>Xanthoria</i></p>			
<p><i>Chalara</i></p>	<p><b>lichenicola</b> M. S. Christ.: on <i>Cladonia lobariae</i> Etayo: on <i>Lobaria pulmonaria pseudocyphellariae</i> Etayo: on <i>Pseudocyphellaria</i></p>	<p>Christiansen 1993 Etayo &amp; Diederich 1996b Etayo &amp; Sancho 2008</p>		

<i>Echinothecium</i>	<b>aerophilum</b> Alstrup & M. S. Cole: on <i>Alectoria</i> <b>cladoniae</b> Keissl.: on <i>Cladonia</i> <b>reticulatum</b> Zopf: on <i>Parmelia</i>	Alstrup & Cole 1998 Clauzade et al. 1989 Roux & Triebel 1994	<b>reticulatum</b> : Culture obtained by Crittenden et al. (1995)	
<i>Fusicladium</i>	<i>peltigericola</i> Crous & Diederich: isolated from <i>Peltigera</i> , possibly lichenicolous	Crous et al. 2011	<b>peltigericola</b> : CBS 128206	<i>peltigericola</i> (CBS 128206): nrSSU+ITS+nrLSU: <a href="#">HQ599579</a>
<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>Koordersiella</i>	<b>deightonii</b> (D. Hawksw.) D. Hawksw. & O. E. Erikss.: on foliicolous <i>Porina</i> and ?Gomphillaceae [anamorph: <i>Hansfordiellopsis elongata</i> D. Hawksw.] <b>insectivora</b> (Hansf.) D. Hawksw. & O. E. Erikss.: on foliicolous <i>Asterothyrium</i> [anamorph: <i>Hansfordiellopsis lichenicola</i> (Bat. & Maya) Deight.] <b>javanica</b> Höhn.: on Gomphillaceae <b>Hansfordiellopsis minuta</b> D. Hawksw.: on foliicolous lichens <b>Hansfordiellopsis tenuissima</b> D. Hawksw.: on foliicolous lichens <b>Hansfordiellopsis variegata</b> D. Hawksw.: on foliicolous lichens, incl. <i>Bullatina aspidota</i>	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>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	Etayo & Diederich 1996b Hawksworth 1975a Hawksworth 1979a	<b>lepraria</b> : UAMH; DUM <b>lepraria</b> : CBS 533.77	

	lichens <b>epilepraria</b> Kukwa & Diederich: on <i>Lepraria</i>			
<i>Pseudorobillarda</i>	<b>peltigerae</b> Diederich: on <i>Peltigera</i>	van den Boom et al. 1998		
<i>Rhabdospora</i>	<b>haematommatum</b> Kalb & Hafellner: on <i>Haematomma</i>	Kalb et al. 1995		
<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		
<i>Sphaerellothecium</i>	<b>abditum</b> Triebel: on <i>Immersaria</i> and <i>Lecidea</i> <b>araneosum</b> (Arnold) Zopf: on <i>Ochrolechia</i> , <i>Pertusaria</i> and <i>Varicellaria</i> <b>atryneae</b> (Arnold) Cl. Roux & Triebel: on <i>Lecanora bicincta</i> , <i>L. cenisia</i> , <i>L. rupicola</i> and <i>L. swartzii</i> <b>breussii</b> K. Knudsen, Kocourk. & Etayo: on <i>Placidium lacinulatum</i> <b>buelliae</b> (C.W. Dodge) D. Hawksw. & Iturr.: on <i>Buellia</i> <b>cinerascens</b> Etayo & Diederich: on <i>Cladonia parasitica</i> <b>cladoniae</b> (Alstrup & Zhurb.) Hafellner: on <i>Cladonia</i> subgen. <i>Cladonia</i> and <i>Stereocaulon</i> <b>cladoniicola</b> E. S. Hansen & Alstrup: on <i>Cladonia</i> subgen. <i>Cladina</i> <b>conioides</b> (Nyl.) Cl. Roux & Diederich: on	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 2012 Zhurbenko & Alstrup 2004 Zhurbenko & Brackel 2013 Zhurbenko & Triebel 2008		



	<p><i>Baeomyces rufus</i></p> <p><b>contextum</b> Triebel: on <i>Calvitimela</i>, <i>Protoparmelia</i>, <i>Rhizocarpon</i>, <i>Rhizoplaca</i> and <i>Sporastatia</i></p> <p><b>epilecanora</b> Zhurb.: on <i>Lecanora epibryon</i></p> <p><b>episquamarinae</b> Etayo: on <i>Squamarina</i> <i>lentigera</i></p> <p><b>gallowayi</b> Diederich: on <i>Heterodermia</i></p> <p><b>giraltiae</b> van den Boom: on <i>Rinodina</i></p> <p><b>gowardii</b> Alstrup &amp; M. S. Cole: on <i>Acarospora schleicheri</i></p> <p><b>icmadophilae</b> (R. Sant.) Zhurbenko: on <i>Icmadophila ericetorum</i></p> <p><b>minutum</b> Hafellner: on <i>Sphaerophorus</i></p> <p><b>pannariacearum</b> Etayo: on <i>Pannaria</i></p> <p><b>parietinarium</b> (Linds.) Hafellner &amp; V. John: 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 carpineae</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> <p><b>thamnoliae</b> Zhurb.: on <i>Thamnolia</i></p> <p><b>thamnoliae</b> Zhurb. var. <b>taimyricum</b> Zhurb.: on <i>Thamnolia</i></p>			
<i>Sporidesmium</i>	<p><b>bacidiicola</b> Alstrup: on <i>Bacidia rubella</i></p> <p><b>lichenicola</b> Iturr., D. Hawksw. &amp; J. L. Crane: on <i>Leptogium</i></p>	Alstrup (1991) Iturriaga et al. (2008)		
<i>Stromatopogon</i>	<b>baldwinii</b> Zahlbr.: on <i>Usnea</i>	Diederich 1992a		

	<b>cladoniae</b> Diederich & Sérusiaux: on <i>Cladonia</i> <b>geminatum</b> : on <i>Usnea</i>	Diederich & Sérusiaux 2003 Etayo & Breuss 2004		
<i>Teratoschaeta</i>	<b>rondoniensis</b> Bat. & O. M. Fonseca: on foliicolous <i>Mazosia</i> and other Roccellaceae [anamorph: <i>Ampullifera amoeboides</i> ] <b>Ampullifera foliicola</b> Deight.: on foliicolous lichens <b>Ampullifera hippocrateacearum</b> (Bat. & Caval.) D. Hawksw.: on foliicolous <i>Mazosia</i> and other lichens <b>Ampullifera leonensis</b> Deight.: on foliicolous lichens <b>Ampullifera pirozynskii</b> D. Hawksw.: on foliicolous lichens <b>Ampullifera ugandensis</b> Deight.: on foliicolous lichens	Matzer 1996		
<i>Trematosphaeriopsis</i>	<b>parmeliana</b> (Jacz.) Elenkin: on <i>Xanthoparmelia</i>	Hafellner 2001		

## Home

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

*Arthonia* s. lat. [incl. anam.  
*Helicobolomyces* and  
*Subhysteropycnis*

**abrothallina** Nyl.: on *Pseudocyphellaria*

**almquistii** Vain.: on *Amygdalaria*,  
*Koerberiella*, *Porpidia* and *Trapelia*

**amylospora** Almq.: on *Porpidia* and  
*Farnoldia*

**anatolica** Halici & Candan: on *Aspicilia*  
*contorta*

**anjutii** S. Y. Kondr. & Alstrup: on  
*Teloschistes velifer*

**apotheciorum** (A. Massal.) Almq.: on  
*Lecanora albescens*

**arthoniicola** Diederich & Aptroot: on  
*Arthonia catenulata*

**aspiciliae** (Metzl.) S. Y. Kondr.: on  
*Aspicilia*

**atropunctata** Vain.: on sterile foliicolous  
cf. *Echinoplaca*

**ayseniae** Halici & Candan: on *Acarospora*  
[as 'aysenae']

**badia** Wedin & Hafellner: on  
*Pseudocyphellaria granulata*

**biatoricola** Ihlen & Owe-Larss.: on *Biatora*  
*efflorescens*

**caerulescens** (Almw.) R. Sant.: on  
*Lecanora varia*

**ceracea** Etayo & Breuss: on *Peltigera*  
*polydactylon* [a homonym of *Arthonia*  
*ceracea* Fée]

**cinnabarinula** Müll. Arg.: on foliicolous  
*Porina* and *Trichothelium* [anamorph:  
*Helicobolomyces lichenicola* Matzer]

**circinata** Th. Fr.: on *Umbilicaria*

**clemens** (Tul.) Th. Fr.: on *Rhizoplaca*

Alstrup 1993a

Alstrup & Cole 1998

Alstrup & Hansen 2001

Alstrup & Olech 1996

Alves et al. 2014

Aptroot et al. 1995

Aptroot et al. 1997

Calatayud et al. 1995

Calatayud et al. 2004

Candan & Halici 2009

Diederich 1995

Ertz et al. 2005

Etayo 1993

Etayo 1996

Etayo 2002a

Etayo 2008

Etayo 2010b

Etayo 2010c

Etayo & Breuss 1998

Etayo & Diederich 2009

Etayo & Sancho 2008

Follmann & Werner 2003

Grube & Matzer 1997

Grube et al. 1995

Halici 2008

Halici & Candan 2009

Halici & Candan 2011

Hawksworth 1991a

Hawksworth & Iturriaga 2006

Hertel 1969

Horáková 1994

Ihlen et al. 2004

Joshi et al. 2013

Kalb et al. 1995

Kantvilas & Vězda 1992

Kärnefelt et al. 2002

Kondratyuk 1996a

Kondratyuk & Zelenko 2002

Matzer 1996

Santesson 1993a

Santesson et al. 2004

**apotheciorum** (UPS:Frisch  
11/Se23): *RPB2*: [KJ851148](#);  
mtSSU: [KJ850970](#)

**biatoricola** (UPS:Thor 24350):  
*RPB2*: [KJ851149](#); mtSSU:  
[KJ850990](#)

**graphidicola** (UPS:Frisch  
10/Jp102): *RPB2*: [KJ851034](#);  
mtSSU: [KJ850980](#)

**molendoi** (UPS:Frisch 11/Se36):  
nrLSU: [KJ851051](#); *RPB2*:  
[KJ851117](#); mtSSU: [KJ851000](#)

**neglectula** (UPS:Frisch 10/Se91):  
nrLSU: [KJ851037](#); *RPB2*:  
[KJ851118](#); mtSSU: [KJ850989](#)

**peltigerina** (UPS:Westberg  
Frisch 11/Se46): *RPB2*:  
[KJ851122](#); mtSSU: [KJ850998](#)

**phaeophysciae** (UPS:Ertz 11/2):  
nrLSU: [KJ851067](#); *RPB2*:  
[KJ851112](#)

**stereocaulina** (UPS:Westberg  
Frisch 11/Se48): nrLSU:  
[KJ851062](#); mtSSU: [KJ850999](#)

**subfuscicola** (UPS:Frisch  
11/Se15): *RPB2*: [KJ851111](#);  
mtSSU: [KJ850972](#)

**subfuscicola** (UPS:Thor 11/1):  
*RPB2*: [KJ851110](#); mtSSU:  
[KJ850971](#)

**cohabitans** Coppins: on *Arthothelium reagens*  
**colombiana** Etayo: on *Cladonia coriifoliae* Wedin & Hafellner: on *Pseudocyphellaria coriifolia*  
**coronata** Etayo: on *Flavoparmelia caperata*  
**cryptotheciae** Matzer & R. Sant.: on foliicolous *Cryptothecia candida*  
**darbishirei** Follmann & Werner: on *Rocella nigerrima*  
**destruens** Rabenh.: on *Physcia destruens* var. **nana** Grube & Hafellner: on *Xanthoria fallax*  
**digitatae** Hafellner: on *Cladonia digitata*  
**digitispora** Etayo: on *Sticta* [as 'digitospora']  
**diorygmae** S. Joshi, D. K. Upreti & S. Nayaka: on *Diorygma diploiciae* Calat. & Diederich: on *Diploicia canescens*  
**epicladonia** (Nyl.) Alstrup & Zhurb.: on *Cladonia epifarinsa* Etayo: on *Pannaria epimela* (Norman) I. M. Lamb: on *Buellia 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*

Triebel et al. 1991  
Wedin & Kondratyuk 1997

**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, soreciate 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*  
**stipitata** M. M. E. Alves, Aptroot & M. Cáceres: on unidentified sterile, soresiate, corticolous lichen (?*Bacidina*, *Fellhanera*)  
**subaggregata** Wedin & Hafellner: on *Pseudocyphellaria hirsuta*  
**subconveniens** Nyl.: on *Lobaria*  
**subfuscicola** (Linds.) Triebel: on *Lecanora albella* and *L. carpinea*  
**subvelutinae** (Vain.) R. Sant.: on foliicolous *Sporopodium*  
**sytnikii** S. Y. Kondr.: on *Xanthoria*  
**tavaresii** Grube & Hafellner: on *Anthracotheceum* and *Pyrenula*  
**tetraspora** S. Y. Kondr. & Kärnefelt: on *Caloplaca chilensis*  
**thelotrematis** Coppins: on *Thelotrema*  
**tremelloides** Etayo: on *Heterodermia*  
**triebelsiae** Zhurb.: on *Dactylina*  
**urceolata** (Elenkin) Calat., Barreno & V. J.



	<p>Rico: on <i>Aspicilia</i></p> <p><b>varians</b> (Davies) Nyl.: on <i>Lecanora rupicola</i> and <i>L. helicopis</i></p> <p><b>versoeensis</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>			
<i>Briancoppinsia</i>	<p><b>cytospora</b> (Vouaux) Diederich, Ertz, Lawrey &amp; van den Boom: on parmelioid lichens, <i>Lecanora conizaeoides</i>, <i>Cladonia</i> and <i>Pertusaria</i></p>	Diederich et al. 2011/2012	<b>cytospora</b> : CBS 128707 TYPE CULTURE	<p><b>cytospora</b> (CBS 218707): nrLSU: JF830769; mtSSU: JF830771</p> <p><b>cytospora</b> (Ertz 15244): nrLSU: JF830770; mtSSU: JF830772</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 nimbosa</i></p>	Egea & Torrente 1994 Follmann & Werner 2003		
<i>Phacographa</i>	<p><b>glaucomaria</b> (Nyl.) Hafellner: on <i>Lecanora rupicola</i> s. lat. (incl. <i>L. bicincta</i>)</p> <p><b>protoparmeliae</b> Hafellner: on <i>Protoparmelia badia</i></p> <p><b>zwackhii</b> (Zwackh) Hafellner: on <i>Phlyctis</i></p>	Hafellner 2009		<p><b>glaucomaria</b> (UPS Frisch 11Se/33): nrLSU: KJ851028; RPB2: KJ851136; mtSSU: KJ851022</p> <p><b>protoparmeliae</b> (UPS Westberg and Frisch 11Se/49): nrLSU: KJ851075; RPB2: KJ851137</p> <p><b>zwackhii</b> (UPS Frisch 11/Se3): nrLSU: KJ851048; mtSSU: KJ851021</p> <p><b>zwackhii</b> (UPS Thor 26283): nrLSU: KJ851074; RPB2: KJ851135</p>
<i>Plectocarpon</i>	<p><b>arthonioides</b> Diederich: on <i>Lobaria isidiophora</i></p>	Aptroot et al. 1997 Cáceras et al. 2001 Diederich & Etayo 1994		<p><b>lichenum</b> (Thor 26770): RPB2: KJ851140; mtSSU: KJ850988</p>

**bunodophori** Wedin, Ertz & Diederich: on  
*Bunodophoron patagonicum*  
**cladoniae** R. Sant.: on *Cladonia*  
**concentricum** Ertz, Diederich & Wedin:  
on *Pseudocyphellaria homeophylla*  
**coppinsii** Ertz & Diederich:  
*Pseudocyphellaria crocata*  
**crystalliferum** Christnach, Ertz &  
Diederich: on *Sticta*  
**dirinariae** Ertz & van den Boom: on  
*Dirinaria*  
**encausticum** (Nyl.) R. Sant.: on *Brodoa*  
*intestiniiformis*  
**gallowayi** (S. Y. Kondr.) Ertz & Diederich:  
on *Pseudocyphellaria dissimilis*  
**gayanum** Etayo: on *Siphula*  
**hypogymniae** Zhurb. & Diederich: on  
*Hypogymnia bitteri*  
**lambinonii** Diederich & Etayo: on *Lobaria*  
and *Pseudocyphellaria anomala*  
**latisporum** Ertz, Diederich & Wedin: on  
*Pseudocyphellaria coriifolia*  
**leuckertii** (S. Y. Kondr. & D. J. Galloway)  
Ertz & Diederich: on *Pseudocyphellaria*  
*intricata* and *P. norvegica*  
**lichenum** (Sommerf.) D. Hawksw.: on  
*Lobaria pulmonaria*, *Pseudocyphellaria*  
*anomala* and *P. anthraspis*  
**linitae** (R. Sant.) Wedin & Hafellner: on  
*Lobaria linita*  
**macaronesiae** Diederich, Etayo & Sérus.:  
on *Lobaria immixta* and *L. macaronesiae*  
**melanohaleae** Christnach, Ertz &  
Diederich: on *Melanohalea ushuaiensis*

Ertz & Diederich 2007  
Ertz & van den Boom 2012  
Ertz et al. 2003  
Ertz et al. 2005  
Etayo 2007  
Etayo & Sancho 2008  
Hawksworth & Galloway 1984  
Kukwa et al. 2012  
Santesson 1993a  
Santesson 1994a  
Scholz 1998  
Wedin & Hafellner 1998  
Zhurbenko et al. 2008

**nephromeum** (UPS: Nordin  
5813): RPB2: [KJ851139](#);  
mtSSU: [KJ851004](#)

**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*  
**stereocaulicola** Kukwa, Etayo & Flakus:  
on *Stereocaulon*  
**sticticola** Ertz, Wedin & Diederich: on  
*Sticta*  
**tibellii** Ertz & Diederich: on  
*Pseudocyphellaria rubella*  
**triebeliae** Diederich & Ertz: on *Lobaria*  
*quercizans*  
**usneae** Diederich & Etayo: on *Usnea*  
*exasperata*  
**usneaustralis** Etayo: on *Usnea*  
**venustum** Ertz, Coppins & Diederich: on

	<i>Nephroma papillosum</i> <b>violaceum</b> Ertz, R. Sant., Diederich & Wedin: on <i>Nephroma antarcticum</i>			
Opegraphaceae				
<i>Opegrapha</i> s. lat.	<b>agelaea</b> Fée: on pyrenocarpous lichen <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 & Diederich: on cf. <i>Ochrolechia</i> <b>brevis</b> Coppins: on <i>Thelotrema petractoides</i> <b>brevissima</b> Kalb & Hafellner: on <i>Haematomma</i> <b>brigantina</b> Hafellner: on <i>Brigantiaea</i> <b>buelliae</b> Zhurb.: on <i>Buellia insignis</i> <b>cladoniicola</b> Ertz & Diederich: on <i>Cladonia</i> <b>cryptotheciae</b> Matzer: on foliicolous <i>Cryptothecia</i> <b>diffRACTICOLA</b> R. C. Harris & Ladd: on <i>Bacidia diffracta</i> <b>ectolechiacearum</b> Matzer & R. Sant.: on foliicolous <i>Calopadia</i> , <i>Loflammia</i> and <i>Sporopodium</i> <b>encephalographoidea</b> Diederich & Aptroot: on <i>Pyrenula</i> <b>enterographae</b> Etayo & R. Sant.: on <i>Enterographa</i> <b>epiporina</b> Matzer: on foliicolous <i>Phyllobiale</i> and <i>Porina</i> <b>foreaui</b> (Moreau) Hafellner & R. Sant.: on <i>Heterodermia</i> <i>Leciographa furfuracea</i> (Anzi) Rehm: on <i>Lecanora rupicola</i> and <i>Rhizocarpon</i> [a	Alstrup & Hawksworth 1990 Aptroot et al. 1997 Awasthi 1991 Clauzade et al. 1989 Coppins & Kondratyuk 1998 Ertz 2009 Ertz & Diederich 2003 Ertz et al. 2004 Ertz et al. 2005 Etayo 1996 Etayo 2007 Etayo 2010b Etayo & Aptroot 2006 Etayo & Sancho 2008 Follmann & Werner 2003 Hafellner 1985b Hafellner 1994a Hafellner 2007 Harris & Ladd 2007 Isbrand & Alstrup 1992 Kalb & Elix 1995 Kalb et al. 1995 Kondratyuk & Galloway 1995c Kondratyuk & Kudratov 2002 Lücking 1998 Matzer 1996 Navarro-Rosinés & Hladun 1995 Orange 2002 Triebel 1989 Vondrák & Kocourková 2008 Zhurbenko 2009b Zhurbenko 2013a		

poorly known species]

**geographicola** (Arnold) Hafellner: on  
*Rhizocarpon*

**gregalis** Vain.: on pyrenocarpous lichen  
*Leciographa gyrolophii* (A. Massal.)

Vouaux: on *Dictyonema* [a poorly known  
species]

**hellespontica** Vondrák & Kocourk.: on  
*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*

	<p><b>sphaerophoricola</b> Isbrand &amp; Alstrup: on <i>Sphaerophorus globosus</i>  <b>stereocaulicola</b> Alstrup &amp; D. Hawksw.: on <i>Stereocaulon</i>  <b>stigmodes</b> Nyl.: on <i>Porina</i>  <b>strigulae</b> Matzer &amp; R. Sant.: on foliicolous <i>Strigula</i>  <b>submaritima</b> Hafellner: on <i>Tephromela atra</i>  <b>tenuior</b> Stirt.: on <i>Thelotrema</i>  <b>thelotrematis</b> Coppins: on <i>Thelotrema 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. &amp; Tretiach: on <i>Caloplaca erodens</i></p>			
<p><i>Paralecanographa</i></p>	<p><b>grumulosa</b> (Dufour) Egea &amp; Torrente [incl. <i>L. hemisphaerica</i> (Laundon) Egea &amp; Torrente]: on <i>Roccella</i>, rarely on <i>Dirina</i>, <i>Gorgadesia</i> or <i>Opegrapha</i></p>	<p>Egea &amp; Torrente 1994</p>		<p><b>grumulosa</b> (Ertz 13568): nrLSU: HQ454556; RPB2: HQ454696  <b>grumulosa</b> (Ertz 13565): nrLSU: HQ454555; RPB2: HQ454695  <b>grumulosa</b> (Ertz 13558): nrLSU: HQ454554; RPB2: HQ454694  <b>grumulosa</b> (Tehler 9031): nrLSU: HQ454553; RPB2: HQ454693  <b>grumulosa</b> (Tehler 9010): nrLSU: HQ454552; RPB2: HQ454692  <b>grumulosa</b> (Tehler 9809): nrLSU: HQ454542; RPB2: HQ454682  <b>grumulosa</b> (Tehler 9028):</p>

				nrLSU: HQ454541; RPB2: HQ454681
<b>Roccellaceae</b>				
<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>osagensis</b> C. A. Morse: on <i>Bacidina</i> <b>punctata</b> Ertz & Diederich: on <i>Lobaria</i>	Ertz et al. 2005 Matzer 1996 Morse 2013		
<i>Mazosia</i>	<b>adelphoparasitica</b> Matzer: on foliicolous <i>Mazosia</i>	Matzer 1996		
<i>Sigridea</i>	<b>labyrinthica</b> (Follmann) Ertz & Diederich: on <i>Rocella portentosa</i>	Ertz et al. 2005		
<b>Incertae sedis</b>				
<i>Arthophacopsis</i>	<b>parmeliarum</b> Hafellner: on <i>Parmelia</i> s. str.	Hafellner 1998a		
<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>phaeophysciae</b> Etayo & Pérez-Vargas: on <i>Phaeophyscia</i> <b>superveniens</b> (Nyl.) Hafellner: on <i>Parmelia sulcata</i>	Ertz et al. 2005 Hafellner 1996a Pérez-Vargas et al. 2013		
<i>Phacothecium</i>	<b>varium</b> (Tul.) Trevis.: on <i>Xanthoria</i>	Hafellner 2009		
<i>Schismatomma</i> s. lat.	<b>physconiicola</b> Ertz & Diederich: on <i>Physconia</i>	Ertz & Diederich 2006		
<i>Trichophyma</i>	<b>bunchosiae</b> Rehm: on foliicolous <i>Strigula</i> <b>similis</b> Matzer: on foliicolous <i>Strigula</i>	Matzer 1996		
<b>Lichenostigmatales</b>				
<b>Phaeococcomycetaceae</b>				
<i>Etayoa</i>	<b>trypethelii</b> (Flakus & Kukwa) Diederich & Ertz: on Graphidaceae, <i>Lecanora</i> ,	Ertz et al. 2014		<b>trypethelii</b> (Mukherjee): nrLSU: KF176943; mtSSU: KF176970



	<i>Pertusaria</i> , <i>Trypethelium</i> and other crustose lichens			<p><b>trypethelii</b> (Common 9434K): nrLSU: <a href="#">KF176942</a>; mtSSU: <a href="#">KF176969</a></p> <p><b>trypethelii</b> (Common 9215P): nrLSU: <a href="#">KF176941</a>; mtSSU: <a href="#">KF176968</a></p> <p><b>trypethelii</b> (Common 9200G): nrLSU: <a href="#">KF176940</a>; mtSSU: <a href="#">KF176967</a></p>
<i>Lichenostigma</i> [incl. <i>Phaeosporobolus</i> anamorphs]	<p><b>alpinum</b> (R. Sant., Alstrup &amp; D. Hawksw.) Ertz &amp; Diederich: on <i>Ochrolechia</i>, <i>Pertusaria</i> and other lichens [incl. <i>Diederimyces fuscideae</i> Etayo, <i>D. microsporus</i> Etayo, <i>Phaeosporobolus minutus</i> Etayo]</p> <p><b>chlaroterae</b> (F. Berger &amp; Brackel) Ertz &amp; Diederich: on <i>Lecanora</i> and other lichens</p> <p><b>fellhanerae</b> (R. C. Harris &amp; Lendemer) Ertz &amp; Diederich: on <i>Fellhanera</i></p> <p><b>hyalosporum</b> Kalb &amp; Hafellner: on <i>Haematomma eremaeum</i></p> <p><b>maureri</b> Hafellner: on <i>Usnea</i> and other macrolichens</p>	Ertz et al. 2014 Etayo 1995b Etayo & Sancho 2008 Hawksworth & Hafellner 1986 Kalb et al. 1995		<p><b>alpinum</b> (Ertz 17519): nrLSU: <a href="#">KF176946</a>; mtSSU: <a href="#">KF176973</a></p> <p><b>alpinum</b> (Ertz 17522): nrLSU: <a href="#">KF176945</a>; mtSSU: <a href="#">KF176972</a></p> <p><b>alpinum</b> (Diederich 17379): nrLSU: <a href="#">KF176944</a>; mtSSU: <a href="#">KF176971</a></p> <p><b>chlaroterae</b> (Goward 12-42): nrLSU: <a href="#">KF176949</a>; mtSSU: <a href="#">KF176977</a></p> <p><b>chlaroterae</b> (Neuberg): nrLSU: <a href="#">KF176948</a>; mtSSU: <a href="#">KF176975</a></p> <p><b>chlaroterae</b> (Diederich 17329): nrLSU: <a href="#">KF176947</a>; mtSSU: <a href="#">KF176974</a></p> <p><b>chlaroterae</b> (Goward 12-30): mtSSU: <a href="#">KF176976</a></p> <p><b>Lichenotheliaceae sp.</b> (Ertz 17540): nrLSU: <a href="#">KF176960</a>; mtSSU: <a href="#">KF176986</a></p> <p><b>Lichenotheliaceae sp.</b> (Ertz 17457): nrLSU: <a href="#">KF176959</a>; mtSSU: <a href="#">KF176985</a></p> <p><b>Lichenotheliaceae sp.</b> (Ertz 16455): nrLSU: <a href="#">KF176958</a>; mtSSU: <a href="#">KF176984</a></p>

			<p><b>Lichenotheliaceae sp.</b> (Ertz 16340): nrLSU: <a href="#">KF176957</a>; mtSSU: <a href="#">KF176983</a></p> <p><b>Lichenotheliaceae sp.</b> (Ertz 16122): nrLSU: <a href="#">KF176956</a>; mtSSU: <a href="#">KF176982</a></p> <p><b>Lichenotheliaceae sp.</b> (Ertz 15255): nrLSU: <a href="#">KF176950</a></p> <p><b>maureri</b> (Diederich 17337-teleomorph): nrLSU: <a href="#">KF176954</a>; mtSSU: <a href="#">KF176980</a></p> <p><b>maureri</b> (Diederich 17337-anamorph): nrLSU: <a href="#">KF176952</a></p> <p><b>maureri</b> (Diederich 17326): nrLSU: <a href="#">KF176953</a>; mtSSU: <a href="#">KF176979</a></p> <p><b>maureri</b> (Diederich 17306): nrLSU: <a href="#">KF176951</a>; mtSSU: <a href="#">KF176978</a></p> <p><b>sp.</b> (Ertz 17591): nrLSU: <a href="#">KF176961</a>; mtSSU: <a href="#">KF176987</a></p> <p><b>sp.</b> (Diederich 17240): nrLSU: <a href="#">KF176955</a>; mtSSU: <a href="#">KF176981</a></p>
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	Species ( <b>lichenicolous fungi in bold</b> ; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	<b>Significant literature</b>	Cultures (with accession numbers when known; <b>culture collection links</b> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Chaetothyriales</b>				

Herpotrichiellaceae				
<i>Capronia</i>	<p><b>andina</b> Etayo: on <i>Placopsis gelida</i></p> <p><b>baeomycetis</b> Diederich: on <i>Baeomyces</i></p> <p><b>epilobarina</b> S. Y. Kondr. &amp; D. J. Galloway: on <i>Lobaria</i></p> <p><b>etayoi</b> Flakus &amp; Kukwa: on <i>Dictyonema</i></p> <p><b>guatemalensis</b> Etayo: on <i>Parmotrema</i> [as 'guatamalense']</p> <p><b>hypotrachynae</b> Etayo &amp; Diederich: on <i>Hypotrachyna</i></p> <p><b>leopoldiana</b> Etayo: on <i>Leptogium</i></p> <p><b>leptogii</b> Etayo &amp; Diederich: on <i>Leptogium</i></p> <p><b>magellanica</b> Etayo: on <i>Fuscopannaria</i></p> <p><b>minutosetosae</b> Halici, D. Hawksw., A. O. Türk &amp; Candan: on <i>Thelella muscorum</i></p> <p><b>normandinae</b> R. Sant. &amp; D. Hawksw.: on <i>Normandina pulchella</i></p> <p><b>paranectrioides</b> Etayo, Flakus &amp; Kukwa: on <i>Erioderma</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> <p><b>thamnoliae</b> Zhurb.: on <i>Thamnolia</i></p>	<p>Aptroot et al. 1997</p> <p>Etayo 2002a</p> <p>Etayo 2003</p> <p>Etayo 2010b</p> <p>Etayo &amp; Diederich 1998</p> <p>Etayo &amp; Sancho 2008</p> <p>Etayo &amp; van den Boom 2006</p> <p>Etayo et al. 2013b</p> <p>Flakus &amp; Kukwa 2012</p> <p>Halici et al. 2010</p> <p>Hawksworth 1980b</p> <p>Hawksworth 1990a</p> <p>Kondratyuk &amp; Galloway 1995a</p> <p>Untereiner et al. 2011</p> <p>Zhurbenko 2012</p>	<p><b>peltigerae</b>: UAMH 11090</p>	<p><b>peltigerae</b> (UAMH 11090): nrLSU: <a href="#">HQ613813</a>; nrSSU: <a href="#">HQ613815</a>; mtSSU: <a href="#">HQ613814</a>; <i>RPBI</i>: <a href="#">HQ625027</a></p>
<i>Cladophialophora</i>	<p><b>cladoniae</b> (Diederich) Diederich: on <i>Cladonia</i></p> <p><b>hawksworthii</b> (Etayo &amp; Diederich) Diederich: on <i>Megalospora tuberculosa</i></p> <p><b>megalosporae</b> Diederich: on <i>Megalospora pachycheila</i></p> <p><b>normandinae</b> (Diederich &amp; Etayo) Diederich: on <i>Normandina pulchella</i></p>	<p>Diederich 2010</p> <p>Diederich et al. 2013</p> <p>Etayo &amp; Diederich 1995</p> <p>Etayo &amp; Diederich 1996a</p> <p>Etayo &amp; Sancho 2008</p>	<p><b>parmeliae</b>: CBS 129337</p> <p><b>parmeliae</b>: CBS 132232</p>	<p><b>parmeliae</b> (CBS 129337): ITS: <a href="#">JQ342180</a>; nrLSU: <a href="#">JQ342182</a></p> <p><b>parmeliae</b> (CBS 132232): nrLSU: <a href="#">JX081671</a></p>

	<b>parmeliae</b> (Etayo & Diederich) Diederich & Untereiner: on <i>Parmelia</i> s. lat., also on <i>Lobaria</i> and <i>Pannaria</i>			
<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>Myriothrena</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>	<b>alpestris</b> (Zopf) Theiss. & Syd.: on <i>Acarospora glaucocarpa</i> and <i>A. macrospora</i> <b>immersus</b> Etayo & Breuss: on <i>Dermatocarpon biennense</i> <b>interlatens</b> (Arnold) Matzer & Hafellner: on <i>Clauzadea immersa</i> , <i>Hymenelia prevostii</i> and <i>Sarcogyne regularis</i> <b>porocyphii</b> S. Zelanko & S. Y. Kondr.: on <i>Porocyphus</i>	Etayo & Breuss 1998 Kondratyuk & Zelenko 2002 Matzer & Hafellner 1990		
<i>Sagediopsis</i>	<b>aquatica</b> (Stein) Triebel: on <i>Koerberiella wimmeriana</i> <b>aspiciliae</b> Nik. Hoffm. & Hafellner: on <i>Aspicilia myrinii</i> <b>barbara</b> (Th. Fr.) R. Sant. & Triebel: on <i>Porpidia glaucophaea</i> <b>campsteriana</b> (Linds.) D. Hawksw. & R. Sant.: on <i>Ochrolechia</i> <b>dissimilis</b> Triebel: on <i>Paraporpidia leptocarpa</i>	Alstrup & Hawksworth 1990 Hafellner 1993 Hoffmann & Hafellner 2000 Orange 2002 Triebel 1989 Triebel 1993 Zhurbenko 2009c Zhurbenko & Yakovchenko 2014		

	<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><b>vasilyevae</b> Zhurb.: on <i>Rhizocarpon</i></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 <i>Bagliettoa</i></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>		
Verrucariaceae				
<i>Bellemerella</i>	<p><b>acarosporae</b> Calat. &amp; Nav.-Ros.: on <i>Acarospora fuscata</i></p>	<p>Calatayud &amp; Navarro-Rosinés 2001</p> <p>Navarro-Rosinés &amp; Roux, 1997a</p>		

	<p><b>polysporinae</b> Calat. &amp; Nav.-Ros.: on <i>Polysporina simplex</i></p> <p><b>ritae</b> Pérez-Ortega &amp; T. Sprib.: on <i>Xylographa</i></p> <p><b>trapeliae</b> Nav.-Ros. &amp; Cl. Roux: on <i>Trapelia</i></p>	Pérez-Ortega & Spribille 2007		
<i>Clauzadella</i>	<p><b>gordensis</b> Nav.-Rox. &amp; Cl. Roux: on <i>Verrucaria viridula</i></p>	Navarro-Rosinés & Roux 1996		
<i>Endococcus</i>	<p><b>alectoriae</b> D. Hawksw.: on <i>Alectoria</i></p> <p><b>apiciicola</b> (J. Steiner) R. Sant.: on <i>Usnea</i></p> <p><b>brachysporus</b> (Zopf) M. Brand &amp; Diederich: on <i>Porpidia</i></p> <p><b>buelliae</b> (C. W. Dodge) Matzer: on <i>Dimelaena radiata</i></p> <p><b>Microthelia calcaricola</b> Mudd: on <i>Aspicilia</i></p> <p><b>caudisporus</b> J. C. David &amp; Etayo: on <i>Collema auriforme</i></p> <p><b>complanatae</b> Arnold: on <i>Miriquidica</i></p> <p><b>exerrans</b> Nyl.: on <i>Rhizocarpon</i></p> <p><b>Verrucaria fumosaria</b> Leight.: on <i>Lecidea fuscoatra</i></p> <p><b>fusiger</b> Th. Fr. &amp; Almq.: on <i>Rhizocarpon</i></p> <p><b>incrassatus</b> Etayo &amp; Breuss: on <i>Placidiopsis</i></p> <p><b>karlstadtensis</b> Kocourk. &amp; Brackel: on <i>Endocarpon</i></p> <p><i>Tichothecium latzelii</i> Keissl.: on <i>Collema</i></p> <p><b>macrosporus</b> (Arnold) Nyl.: on <i>Rhizocarpon</i></p> <p><b>matzeri</b> D. Hawksw. &amp; Iturr.: on <i>Buellia muscicola</i></p> <p><b>nanellus</b> Ohlert: on <i>Stereocaulon</i></p>	<p>Alstrup 1993b</p> <p>Alstrup 1996</p> <p>Alstrup et al. 1994</p> <p>Brackel &amp; Kocourková 2006</p> <p>David &amp; Etayo 1995</p> <p>Etayo 2002a</p> <p>Etayo 2010b</p> <p>Etayo &amp; Breuss 2001</p> <p>Etayo &amp; Sancho 2008</p> <p>Hafellner 1994a</p> <p>Hafellner et al. 2002</p> <p>Hafellner et al. 2008</p> <p>Halici et al. 2007</p> <p>Hawksworth 1979b</p> <p>Hawksworth 1982a</p> <p>Hawksworth &amp; Iturriaga 2006</p> <p>Kocourková &amp; Knudsen 2011a</p> <p>Matzer 1993</p> <p>Santesson 1994b</p> <p>Sérusiaux et al. 1999</p> <p>Triebel 1989</p> <p>Zhurbenko et al. 2012</p>	<p><b>rugulosus</b>: Culture obtained by Crittenden et al. (1995)</p>	<p><b>fusigera</b> (Orange 17098): nrSSU+ITS+nrLSU: <a href="#">FJ645262</a></p>

**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*  
**peltigericola** Zhurb. & Stepanchikova: on  
*Peltigera*  
**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 *Orcularia*  
**thamnoliae** Etayo & R. Sant.: on  
*Thamnolia*  
**thelommatis** Kocourk. & K. Knudsen: on  
*Thelomma santessonii*  
**tricolorans** Alstrup: on *Platismatia glauca*  
**variabilis** Halici, Kocourk. & Diederich: on

	<p><i>Staurothele</i>  <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><i>fusculum</i> (Nyl.) Gueidan &amp; Cl. Roux: lichen, juvenile parasite on <i>Aspicilia calcarea</i>  <i>transmutans</i> K. Knudsen, Breuss &amp; Kocourk.: lichen, juvenile parasite on <i>Acarospora socialis</i></p>	<p>Breuss 1994  Knudsen et al. 2014</p>		
<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>	<p>Hafellner 2011  Roux et al. 2002  Triebel 1989</p>		
<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</p>	<p>Berger &amp; LaGreca 2014  Clauzade et al. 1989  Diederich 1986  Diederich 2003  Etayo &amp; Sancho 2008  Hawksworth 1985  Triebel 1989</p>	<p><b>pygmaea</b>: Culture obtained by Crittenden et al. (1995)</p>	



	<p><b>polyspora</b> Müll. Arg.: on diverse lichens</p> <p><b>pygmaea</b> (Körb.) D. Hawksw.: on on diverse lichens</p> <p><b>stictinae</b> (H. Olivier) Vouaux: on <i>Sticta</i></p> <p><b>thalamita</b> (Nyl.) D, Hawksw., F. Berger &amp; LaGreca: on <i>Baculifer</i>, <i>Orcularia</i> and <i>Hafellia</i></p> <p><b>triseptata</b> Diederich: on <i>Buellia griseovirens</i> and other lichens</p> <p><b>ventosicola</b> (Mudd) D. Hawksw.: on <i>Ophioparma</i>, possibly also on <i>Rhizocarpon</i></p> <p><b>vesicularia</b> (Linds.) D. Hawksw.: on <i>Toninia</i></p>			
<i>Norrinia</i>	<p><b>medoborensis</b> S. Y. Kondr.: on <i>Peltigera</i></p> <p><b>peltigericola</b> (Nyl.) Theiss. &amp; Syd.: on <i>Peltigera</i> and <i>Marchandiomphalina foliacea</i></p>	<p>Hawksworth 1980b</p> <p>Kondratyuk &amp; Galloway 1995a</p>		<p><b>peltigericola</b> (Palice 4369): nrLSU: AY300845; mtLSU: AY779307; nrSSU: AY779280; mtSSU: AY300896</p>
<i>Phaeospora</i>	<p><b>arctica</b> Horáková &amp; Alstrup: on <i>Allocetraria</i>, <i>Arctocetraria</i> and <i>Arctoparmelia</i></p> <p><b>catolechiaie</b> Zopf: on <i>Catolechia wahlenbergii</i></p> <p><b>dermatocarponis</b> (R. G. Werner) S. Y. Kondr. [nom. inval.?]: on <i>Dermatocarpon</i> [probably not a <i>Phaeospora</i>]</p> <p><b>everniae</b> Etayo &amp; van den Boom: on <i>Evernia</i></p> <p><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>]</p> <p><b>lecanorae</b> Eitner: on <i>Lecanora</i></p> <p><b>parasitica</b> (Lönnr.) Arnold: on <i>Rhizocarpon</i></p>	<p>Alstrup &amp; Hansen 2001</p> <p>Alstrup &amp; Olech 1996</p> <p>Etayo 2010c</p> <p>Galloway 2004</p> <p>Hawksworth 1980b</p> <p>Hawksworth 1983</p> <p>Horáková &amp; Alstrup 1994</p> <p>Kondratyuk &amp; Zelenko 2002</p> <p>Øvstedal &amp; Hawksworth 1986</p> <p>Sérusiaux et al. 1999</p> <p>van den Boom &amp; Etayo 2014</p> <p>Zhurbenko 2014</p>		

	<p>[and <i>Lopadium?</i>]</p> <p><b>peltigericola</b> D. Hawksw.: on <i>Peltigera</i> and <i>Pseudocyphellaria</i> [and <i>Lobaria?</i>]</p> <p><b>perrugosaria</b> (Linds.) D. J. Galloway: on <i>Placopsis</i></p> <p><b>protoblasteniae</b> Alstrup &amp; Olech: on <i>Protoblastenia incrustans</i></p> <p><b>rimosicola</b> (Mudd) Stein: on <i>Rhizocarpon</i> [also reported on <i>Aspicilia</i> and <i>Diplotomma</i>]</p> <p><b>squamarinae</b> Etayo: on <i>Squamarina cartilaginea</i></p> <p><b>subantarctica</b> Øvstedal &amp; D. Hawksw.: on <i>Lecania gerlachei</i></p> <p><b>verrucariae</b> Alstrup &amp; E. S. Hansen: on <i>Verrucaria placynthiae</i></p>			
<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>		<p><b>sp.</b> (CG-2011): ITS: <a href="#">JF693319</a> <i>schaereri</i> (AFTOL 2289; C. Gueidan 588): ITS: <a href="#">EU006532</a>; nrLSU: <a href="#">EF643766</a>; nrSSU: <a href="#">EF689850</a>; <i>RPBI</i>: <a href="#">EF689770</a></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:</p>	<p>Breuss 1998 Breuss 2009 Orange 2004 Orange 2009 Roux &amp; Gueidan 2011</p>		<p><b>sp.</b> (CG-2011): ITS: <a href="#">JF693318</a></p>

	lichen, juvenile facultative parasite on <i>Bagliettoa</i> and <i>Verrucaria noxium</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i>			
<i>Teloggalla</i>	<b>olivieri</b> (Vouaux) Nik. Hoffm. & Hafellner: on <i>Xanthoria</i>	Hoffmann & Hafellner 2000		
<i>Verrucaria</i>	<i>cetera</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i> <b>conturmatula</b> Nyl.: on <i>Ionaspis lacustris inficiens</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i> and <i>S. elenkinii</i> <i>placynthiae</i> Alstrup & E. S. Hansen: lichenicolous lichen on <i>Placynthium nigrum</i>	Alstrup & Hansen 2001 Breuss 1998  Orange 2002		
<i>Verrucula</i>	<i>aegyptiaca</i> (Müll. Arg.) J. Steiner: lichenicolous lichen on <i>Caloplaca</i> gr. <i>velana</i> <i>ahlesiana</i> (Zwackh) J. Steiner: lichen, probably lichenicolous <i>arnoldaria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca arnoldii</i> <i>biatorinaria</i> (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca biatorina</i> <i>clauzadaria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca clauzadeana</i> <i>coccinearia</i> (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca coccinea</i> <i>coronataria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca coronata</i> <i>elegantaria</i> (Zehetl.) Nav.-Ros. & Cl.	Hoffman & Hafellner 2000 Navarro-Rosinés et al. 2007 Roux 2014 Zehetleitner 1978		<i>arnoldaria</i> (P. Navarro-Rosines 88091100); ITS: <a href="#">EU006535</a> <i>arnoldaria</i> (C. Gueidan 594; AFTOL 2302); ITS: <a href="#">EU006534</a> ; nrLSU: <a href="#">EF643816</a> ; mtSSU: <a href="#">FJ225713</a> ; <i>RPBI</i> : <a href="#">EF689816</a> ; nrSSU: <a href="#">EF689886</a> <i>biatorinaria</i> (C. Roux 24443; AFTOL 2301); ITS: <a href="#">EU006533</a> ; nrLSU: <a href="#">EF643815</a> ; nrSSU: <a href="#">EF689887</a> ; mtSSU: <a href="#">FJ225714</a> ; <i>RPBI</i> : <a href="#">EF689815</a> <i>granulosaria</i> (C. Gueidan 593; AFTOL: 2304); ITS: <a href="#">EU006540</a> ; nrLSU: <a href="#">EF643818</a> ; nrSSU: <a href="#">EF689889</a> ; <i>RPBI</i> : <a href="#">EF689818</a> <i>granulosaria</i> (C. Gueidan 592; AFTOL 2303); ITS: <a href="#">EU006539</a> ; nrLSU: <a href="#">EF643817</a> ; nrSSU: <a href="#">EF689888</a> ; mtSSU:

Roux: lichenicolous lichen on *Xanthoria elegans*  
*fulvaria* Nav.-Ros. & Cl. Roux ad int.:  
lichenicolous lichen on *Caloplaca proteus granulosa* (Clauz. & Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca granulosa*  
*helvetica* (B. de Lesd.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca cirrochroa*  
*hladuniana* (Nav.-Ros. & Cl. Roux) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca marina*  
*inconnexaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca inconnexa*  
*lactearia* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca lactea* s.str.  
*latericola* (Erichs.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca pusilla*  
*maritimaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca maritima*  
*microspora* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca velana*  
*navasaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca navasiana*  
*polycarparia* Nav.-Ros. & Cl. Roux.: lichenicolous lichen on *Caloplaca polycarpa*  
*protearia* (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca proteus*

FJ225715; *RPBI*: EF689817  
*helvetica* (C. Roux 21565): ITS: EU006541  
*inconnexaria* (C. Roux 22721; AFTOL 2307): ITS: EU006538; nrLSU: EF643821; mtSSU: FJ225718; *RPBI*: EF689821; nrSSU: EF689892  
*inconnexaria* (C. Gueidan 584; AFTOL 2306): ITS: EU006537; nrLSU: EF643820; mtSSU: FJ225717; *RPBI*: EF689820; nrSSU: EF689891  
*inconnexaria* (C. Gueidan 652; AFTOL 2305): ITS: EU006536; nrLSU: EF643819; mtSSU: FJ225716; *RPBI*: EF689819; nrSSU: EF689890  
*pusillaria* (C. Roux 22729): ITS: EU006542

	<p><i>pusillaria</i> Nav.-Ros. &amp; Cl. Roux: lichenicolous lichen on <i>Caloplaca pusilla</i></p> <p><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></p> <p><i>irrubescentis</i> (Ménard &amp; Cl. Roux) Gueidan, Nav.-Ros. &amp; Cl. Roux: lichenicolous lichen on <i>Caloplaca irrubescens</i></p> <p><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>		<p><i>flavescentaria</i> (C. Roux 22714): ITS : <a href="#">EU010260</a> <i>poeltiana</i> (C. Roux 21536; AFTOL 2298): mtSSU: <a href="#">FJ225719</a></p>
Verrucariales 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></p> <p><b>coccisporum</b> (Norm.) Vouaux: on <i>Amygdalaria, Euopsis</i>, etc.</p> <p><b>coccotremicola</b> Etayo: on <i>Coccotrema</i></p> <p><b>corae</b> (Pat.) Etayo &amp; R. Sant.: on <i>Dictyonema</i></p> <p><b>decolorans</b> (Arnold) Triebel: on <i>Lopadium</i>, <i>Bilimbia, Placynthiella, Trapeliopsis</i>, etc.</p> <p><b>heterophractum</b> (Nyl.) Vouaux: on <i>Biatora, Bilimbia, Lopadium</i>, etc.</p> <p><b>nigritellum</b> (Nyl.) Vouaux: on <i>Catapyrenium, Leptogium</i>, <i>Lichenomphalia, Lopadium, Micarea</i>, <i>Mycobilimbia, Ochrolechia</i>, <i>Protoblastenia</i>, etc.</p> <p><b>peregrinum</b> (Flot.) Triebel: on <i>Rimularia</i></p>	<p>Alstrup 1997 Alstrup &amp; Hansen 2001 Etayo 2010b Etayo &amp; Sancho 2008 Hafellner 2011 Hertel &amp; Rambold 1990 Triebel 1989</p>		

	<b>thamnoliicola</b> Alstrup & E. S. Hansen: on <i>Thamnolia vermicularis</i>			
<i>Pseudostigmidium</i>	<b>biseptatum</b> Etayo: on <i>Pseudocyphellaria</i> <b>confusum</b> Etayo; on <i>Pseudocyphellaria</i> <b>disparatum</b> Etayo: on <i>Pseudocyphellaria</i> <b>fumosum</b> Etayo: on <i>Pseudocyphellaria</i> <b>nephromiarium</b> (Lindsay) Etayo: on <i>Nephroma antarcticum</i>	Etayo & Sancho 2008		
<i>Stigmidium</i>	<b>acetabuli</b> Calat. & Triebel: on <i>Pleurosticta acetabulum</i> <b>aggregatum</b> (Mudd) D. Hawksw.: on <i>Aspicilia</i> <b>alectoriae</b> (Lindsay) Etayo: on <i>Usnea</i> <b>allogenum</b> (Nyl.) D. Hawksw.: on <i>Rhizocarpon</i> <b>arthoniae</b> (Arnold) Hafellner: on <i>Arthonia</i> <b>arthrorhaphidis</b> Hafellner & Obermayer: on <i>Arthrorhaphis citrinella</i> <b>aspiciliae</b> (J. Lahm) Cl. Roux: on <i>Aspicilia</i> gr. <i>calcareo</i> <b>bellemerei</b> Cl. Roux & Nav.-Ros.: on <i>Lecania</i> <b>beringicum</b> Zhurb. & Triebel: on <i>Stereocaulon</i> <b>buelliae</b> Zhurb. & Himmelbrant: on <i>Buellia disciformis</i> <b>californicum</b> K. Knudsen & Kocourk.: on <i>Caloplaca stanfordensis</i> <b>calopadiae</b> Matzer: on foliicolous <i>Calopadia</i> <b>cartilagineae</b> Calat. & Triebel: on <i>Squamarina</i> <b>cerinae</b> Cl. Roux & Triebel: on <i>Caloplaca</i>	Alstrup 1993a Alstrup & Hawksworth 1990 Alstrup & Olech 1996 Calatayud & Triebel 1999 Calatayud & Triebel 2001 Clauzade et al. 1989 Etayo 1994 Etayo 2000 Etayo 2002a Etayo 2010c Etayo & Sancho 2008 Hafellner 1982c Hafellner 1994a Hafellner 1994b Hafellner & Obermayer 1995 Hafellner et al. 2008 Hawksworth 1975b Kocourková & Knudsen 2010 Kocourková & Knudsen 2012 Lord et al. 2013 Matzer 1996 Matzer & Hafellner 1990 Molitor & Diederich 1997 Pérez-Ortega et al. 2010 Roux 2014 Roux & Navarro-Rosinés 1994 Roux & Triebel 1994 Roux et al. 1995 Santesson 1989 Santesson 1993b Triebel 1989		

*stillucidiorum*  
**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*  
**disconeophromeum** 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  
*Thamnolia*  
**fuscatae** (Arnold) R. Sant.: on *Acarospora*  
*fuscata*  
**glebarum** (Arnold) Hafellner: on *Toninia*  
**grex** Alstrup & Olech: on *Ochrolechia* cf.

Triebel & Scholz 2001  
Roux et al. 1998  
Zhurbenko & Etayo 2012  
Zhurbenko et al. 2012

*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*

**lendemeri** Kocourk. & K. Knudsen: on  
*Aspicilia*

**leprariae** Zhurb.: on *Lepraria neglecta*

**leptogii** Etayo: on *Leptogium*

**leucophlebiae** Cl. Roux & Triebel: on  
*Peltigera leucophlebia*

**lichenum** (Arnold) Triebel & P. Scholz: on  
*Verrucaria maculiformis*

**lobariae** Zhurb. & Etayo: on *Lobaria*

**marinum** (Deakin) Swinscow: on maritime  
*Verrucaria*

**Pharcidia maritima** B. de Lesd.: on



*Verrucaria*

**microcarpum** Alstrup & J.C. David: on  
*Cetraria* and *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*  
**solorinarium** (Vain.) D. Hawksw.: on  
*Solorina saccata*  
**spgazzinii** Etayo: on *Pseudocyphellaria*  
**squamariae** (B. de Lesd.) Cl. Roux &  
 Triebel: on *Lecanora* gr. *muralis* and *L.*  
*polytropa*  
**squamarinicola** Calat. & Triebel: on  
*Squamarina*  
**stereocaulorum** Zhurb. & Triebel: on  
*Stereocaulon*  
**stygnospila** (Minks) R. Sant.: on  
*Dermatocarpon*  
**superpositum** (Nyl.) D. Hawksw.: on  
*Sporodictyon*  
**tabacinae** (Arnold) Triebel: on *Toninia*  
**tetrasporum** Etayo: on Verrucariaceae  
**trichothelium** Matzer: on foliicolous  
*Trichothelium*  
**triebeliae** Etayo: on *Parmotrema*  
**Pharcidia verrucariarum** (Arnold)  
 Sacc.: on *Verrucaria*  
**vezdae** Matzer: on foliicolous *Bacidina*  
*colchica*  
**xanthoparmeliarum** Hafellner: on  
*Xanthoparmelia*

Home

	Species (lichenicolous fungi in bold;	Significant literature	Cultures (with accession numbers when known; <b>culture</b>	Sequences (with accession numbers)
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	<i>lichenicolous lichens or facultative lichenicolous fungi in italics)</i>		<b>collection links)</b>	
<b>ASCOMYCOTA</b>				
<b>Mycocaliciales</b>				
<b>Mycocaliciaceae</b>				
<i>Chaenothecopsis</i>	<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>dibbleandersoniarum</b> Selva: on <i>Arthonia leucopellaea</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 ochrolecum</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</p>	<p>Clauzade et al. 1989  Gasparyan et al. 2014  Selva 2013  Tibell 1991b  Tibell 1998  Tibell &amp; Ryman 1995  Titov 2006</p>	<p><b>viridireagens</b>: CBS (14 records); UPSC</p>	<p><b>consociata</b>: ITS+nrLSU: <a href="#">AY795851</a>  <b>consociata</b>: nrLSU: <a href="#">DQ008999</a>  <b>epithallina</b> (Tibell 22793): ITS+nrLSU: <a href="#">AY795856</a>  <b>epithallina</b> (Tibell 22705): ITS+nrLSU: <a href="#">AY795855</a>  <b>epithallina</b> (Tibell 22716): nrLSU: <a href="#">AY795994</a>  <b>pusiola</b> (Tibell 15884): ITS+nrLSU: <a href="#">AY795865</a>  <b>pusiola</b> (Tibell 19258): nrLSU: <a href="#">AY795999</a>  <b>savonica</b> (Tibell 15876): ITS+nrLSU: <a href="#">AY795868</a>; nrLSU: <a href="#">AY796000</a>  <b>savonica</b>: nrSSU: <a href="#">U86691</a>  <b>subparoica</b>: ITS+nrLSU: <a href="#">AY795869</a>  <b>viridireagens</b> (Tibell 22803): ITS: <a href="#">AY795872</a>; nrLSU <a href="#">DQ013257</a></p>

	<p><b>retinens</b> (Nyl.) Tibell: on <i>Schismatomma cretaceum</i> and <i>Arthonia byssacea</i></p> <p><b>rubescens</b> Vain.: on <i>Arthonia byssacea</i>, other lichens with <i>Trentepohlia</i> or saprophytic</p> <p><b>rubina</b> Tibell: on <i>Pyrgidium montelicum</i></p> <p><b>sagenidii</b> Tibell: on <i>Sagenidium molle</i></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>treicheliana</b> (Stein) Kalb: on corticolous <i>Lecanora</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>paramerae</b> D. Muñoz &amp; Hladun: on</p>	<p>Kalb 2001</p> <p>Löfgren &amp; Tibell 1979</p> <p>Muñoz et al. 2013</p> <p>Purvis et al. 1992</p> <p>Titov 2006</p>	<b>leucopoda</b> : CBS 114206; UPSC	<p><b>leucopoda</b> (Kalb 33829): ITS+LSU: <a href="#">AY795875</a>; nrLSU: <a href="#">AY796006</a></p> <p><b>turbinata</b> (Tibell 23093): ITS+LSU: <a href="#">AY795877</a>; nrLSU: <a href="#">DQ009001</a></p> <p><b>turbinata</b> (Tibell 22478):</p>

	<i>Pertusaria paramera</i> <b>tubaeformis</b> A. Massal.: on <i>Pertusaria</i> <b>turbinata</b> (Pers.) de Not.: on <i>Pertusaria</i>			ITS+LSU: <a href="#">AY795876</a> ; nrLSU: <a href="#">AY796007</a> <b>turbinata</b> (AFTOL 1721): nrSSU: <a href="#">EF413631</a> ; nrLSU: <a href="#">EF413632</a> ; mtSSU: <a href="#">FJ713611</a> ; <i>RPB2</i> : <a href="#">EF413633</a> <b>turbinata</b> : nrSSU: <a href="#">U86693</a>
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### Home

	Species ( <b>lichenicolous fungi in bold</b> ; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <b>culture</b> <b>collection links</b> )	Sequences (with accession numbers)
<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</i> <i>frigida</i>	Rambold & Triebel 1992		

### Home

	Species ( <b>lichenicolous fungi in bold</b> ; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <b>culture</b> <b>collection links</b> )	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 <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	Knudsen 2011 Knudsen & Kocrouková 2010 Rambold & Triebel 1992		

	<p><i>Dimelaena</i> and <i>Pleopsidium</i>, becoming independent</p> <p><i>pulvinata</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>sphaerospora</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i>, becoming independent</p> <p><i>stapfiana</i> (Müll. Arg.) Hue: lichenicolous lichen on <i>Caloplaca</i> and <i>Xanthoria elegans</i></p> <p><i>strigata</i> (Nyl.) Jatta: lichenicolous lichen on <i>Aspicilia</i>, becoming independent</p> <p><i>succedens</i> H. Magn.: lichenicolous lichen on <i>Dimelaena oreina</i></p> <p><i>superans</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i> and <i>Dimelaena</i></p> <p><i>suprasedens</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i> and <i>Lecanora</i></p> <p><i>tominiana</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>umbrina</i> H. Magn.: lichenicolous lichen on <i>Lecanora</i></p>			
<i>Myriospora</i>	<p><i>hassei</i> (Herre) K. Knudsen &amp; L. Arcadia: facultative lichenicolous lichen (obligate juvenile lichenicolous?) on <i>Acarospora socialis</i></p>	Knudsen & Bungartz 2014		
<i>Polysporina</i>	<p><b>arenacea</b> (H. Magn.) K. Knudsen &amp; Kocourk.: on crustose lichens on siliceous rocks</p> <p><b>pusilla</b> (Anzi) Kantvilas: on crustose lichens on calcareous rocks, e.g., <i>Acarospora</i>, <i>Caloplaca</i>, <i>Protoblastenia</i></p> <p><b>subfuscescens</b> (Nyl.) K. Knudsen &amp; Kocourk.: on crustose lichens on siliceous rocks, e.g., <i>Acarospora</i>, <i>Buellia</i>,</p>	Knudsen & Kocourková 2008		<p><b>subfuscescens</b> (CR26058): ITS: <a href="#">KM879334</a>; mtSSU: <a href="#">KM879329</a></p> <p><b>subfuscescens</b> (CR26059): ITS: <a href="#">KM879333</a>; mtSSU: <a href="#">KM879330</a></p>

	<i>Caloplaca, Candelariella, Lecidea</i>			
<i>Sarcogyne</i>	<b>sphaeospora</b> J. Steiner: lichenicolous lichen on <i>Candelariella</i>	Lendemer et al. 2009		
Catillariaceae				
<i>Catillaria</i>	<b>lobariicola</b> (Alstrup) Coppins & 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>	Alstrup 1997 Etayo 2000 Hafellner 1982b		
<i>Halecania</i>	<i>lobulata</i> van den Boom & Elix: lichen, possibly lichenicolous over <i>Hymenelia santessonii</i> Andreev: lichenicolous lichen on <i>Porpidia albocaerulescens</i>	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 santessonii</i> 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. polytropa</i> ), also reported from <i>Rhizoplaca antarctica</i> (C. W. Dodge & G. E. Baker) D. Hawksw. & Iturr.: on <i>Pseudephebe assimilis</i> (Körb.) Hafellner & Hertel: lichenicolous lichen on <i>Aspicilia</i> , <i>Lecanora</i> , <i>Lecidea</i> , <i>Pertusaria</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> : ITS and nrLSU: <a href="#">AY541239</a>



	<p><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 &amp; Obermayer:  lichenicolous lichen on <i>Orphniospora</i>  <i>mosigii</i>  <i>distans</i> var. <i>buelliarum</i> (Hertel) Hertel:  lichenicolous lichen on <i>Buellia</i>  <b>herteliana</b> Hafellner &amp; 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</i>  <i>geographicum</i>  <b>minor</b> Triebel &amp; Rambold ined.: on  <i>Lecanora</i> 'subfusca' and <i>L. vainioi</i>  <b>neuropogonis</b> Etayo: on <i>Usnea</i>  <i>aurantiaco-atra</i>  <b>superjecta</b> (Nyl.) Hertel: on <i>Lecanora</i>  <i>disjungenda</i>  <b>supersparsa</b> (Nyl.) Hertel: on <i>Lecanora</i>  (mainly <i>L. polytropa</i>)  <b>supersparsa</b> var. <b>bicolor</b> R. Sant. &amp;  Triebel ined.: on <i>Lecanora intricata</i>  <b>vitellinaria</b> (Nyl.) Hertel: on <i>Candelariella</i></p>			
<i>Lecanora</i>	<p><i>epithallina</i> H. Magn.: lichenicolous lichen  on <i>Vestergrenopsis isidiata</i>  <i>gisleriana</i> Müll. Arg.: lichenicolous lichen  on <i>Lecanora epanora</i>, <i>L. handelii</i> and <i>L.</i>  <i>subaurea</i></p>	<p>Etayo &amp; Sancho 2006  Lumbsch et al. 2011  Pérez-Ortega &amp; Etayo 2008  Poelt et al. 1996  Rambold &amp; Triebel 1992</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</i></p> <p><i>printzenii</i> Pérez-Ortega, Vivas &amp; Hafellner: lichenicolous lichen on <i>Umbilicaria</i></p> <p><i>tolypodes</i> Poelt &amp; Vězda: lichenicolous lichen on <i>Aspicilia</i> cf. <i>grisea</i></p> <p><b>usneicola</b> Etayo: on <i>Usnea antarctica</i></p>			
<i>Lecidella</i>	<p><i>dimelaenophila</i> Hertel: lichen, juvenile lichenicolous on <i>Dimelaena oreina</i></p> <p><i>vorax</i> Leuckert &amp; Poelt: lichenicolous lichen on <i>Lecanora rupicola</i></p>	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		<i>insidiosa</i> (J. Hafellner 58556; AFTOL 1756): nrLSU: <a href="#">KJ766650</a> ; nrSSU: <a href="#">KJ766786</a>
Lecideaceae				

<i>Bellemeria</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>Aspicila</i> and other lichens <b>usbekica</b> (Hertel) Barbero, Nav.-Ros. & Roux: lichen, facultative juvenile lichenicolous on <i>Aspicila</i> and other lichens	Rambold & Triebel 1992		<b>usbekica</b> (Immusb94; C. Roux 1.09.2000-5): beta-tubulin: AY536777 <b>usbekica</b> (C. Roux 1.09.2000-5): nrLSU: AY532985
<i>Lecidea</i> s. lat.	<b>acervata</b> Stiz.: on <i>Pseudoparmelia</i> [a poorly known taxon] <b>cetrariicola</b> Lindsay: on <i>Cetraria grumannii Hertel: lichenicolous lichen on <i>Acarospora</i> <b>halacsyi</b> J. Steiner: on <i>Rhizocarpon geographicum</i> <b>perforans</b> Stiz.: on <i>Parmotrema</i> [a poorly known taxon] <i>rapax</i> Hertel: lichenicolous lichen on <i>Aspicilia</i> and <i>Bellemeria</i> <i>verruca</i> Poelt: lichenicolous lichen on <i>Aspicilia</i></i>	Hafellner 2006 Rambold & Triebel 1992		
<i>Poeltiaria</i>	<i>coromandelica</i> (Zahlbr.) Rambold & Hertel: lichen, juvenile lichenicolous on <i>Parapordia leptocarpa</i>	Rambold & Triebel 1992		
Mycoblastaceae				
<i>Tephromela</i>	<b>campestricola</b> (Nyl.) Rambold & Triebel: on <i>Lecanora pseudistera</i> and L. sp. <b>cerasina</b> (Müll. Arg.) Rambold & Triebel:	Rambold 1993		

	<p>on <i>Dirinaria</i>  <b>koliensis</b> (Räs.) Rambold &amp; Triebel: on  <i>Lecanora argopholis</i></p>			
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> 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>  <b>prolificans</b> (Müll. Arg.) Triebel &amp;  Rambold: on <i>Platismatia interrupta</i>  <b>rufa</b> (Müll. Arg.) Triebel: on <i>Cetrelia</i> and  <i>Punctelia</i>  <b>thallicola</b> (A. Massal.) Triebel &amp; Rambold:  on <i>Cetrelia</i>, <i>Flavoparmelia</i>,  <i>Flavopunctelia</i> and <i>Parmotrema</i>  <b>usneae</b> C. W. Dodge: on <i>Usnea</i> subgen.  <i>Neuropogon</i>  <b>vulpina</b> Tul.: on <i>Letharia</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>: (Phhuu): ITS:  AF450283  <b>huuskonenii</b> (D41): nrSSU:  AF450289  <b>oxyspora</b> (D169): ITS: AF450287  <b>oxyspora</b> (D20): ITS: AF450284  <b>oxyspora</b> (PhCop1): nrSSU:  AF450290  <b>Nesolechia oxyspora</b> (Wedin  7890): ITS: GU994568;  nrLSU: GU994613; <i>RPB1</i>:  GU994712; mtSSU:  GU994659  <b>Nesolechia oxyspora</b> (Froberg  10/8/03): nrSSU: DQ923642;  nrLSU: DQ923669  <b>Nesolechia oxyspora</b> (Frieberg  10/8/03): ITS: DQ980020  <b>vulpina</b> (D132): ITS: AF450285</p>

<i>Protoparmelia</i>	<p><i>atriseda</i> (Fr.) R. Sant. &amp; V. Wirth: lichen, juvenile lichenicolous on <i>Rhizocarpon cupreobadia</i> (Nyl.) Poelt: lichen, juvenile lichenicolous on <i>Rhizocarpon 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>Bellemerea cupreoatra</i></p>	Rambold & Triebel 1992		<p><i>atriseda</i> (H. Ponzetti 26046): ITS: <a href="#">KF562190</a>; nrLSU: <a href="#">KF562182</a>  <i>RPBI</i>: <a href="#">KF601236</a>; <i>MCM7</i>: <a href="#">KF562173</a></p> <p><i>cupreobadia</i> (Fryday 863): ITS: <a href="#">KF562192</a>; nrLSU: <a href="#">KF562184</a>;  <i>RPBI</i>: <a href="#">KF601238</a>; <i>MCM7</i>: <a href="#">KF562175</a></p> <p><i>phaeonesos</i> (E. Timdal 11000): ITS: <a href="#">KF562193</a>; nrLSU: <a href="#">KF562185</a>; <i>RPBI</i>: <a href="#">KF601239</a>;  <i>MCM7</i>: <a href="#">KF562176</a></p>
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 <i>Dimelaena oreina</i></p> <p><i>miriquidica</i> Scheidegger: lichenicolous lichen on <i>Schaereria fuscocinerea</i></p> <p><i>uberior</i> Anzi: lichenicolous lichen on <i>Schaereria fuscocinerea</i>, soon becoming independent</p> <p><b>uruguayensis</b> Etayo &amp; Osorio: on <i>Caloplaca felipponei</i></p> <p><b>vouauxii</b> Calatayud &amp; Barreno: on <i>Rhizoplaca melanophthalma</i></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>		
' <i>Caliciella</i> '	<b>parasitica</b> Räsänen: on <i>Chaenotheca</i>	Clauzade et al. 1989		

	<i>furfuracea</i>	Kaufmann & Hofmann 1998		
<i>Cyphelium</i>	<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>	Giavarini & Purvis 2009 Tibell 1971		
<i>Dimelaena</i>	<i>lichenicola</i> K. Knuds., Sheard, Kocourk. & H. Mayrhofer: juvenile lichenicolous on <i>Dimelaena oreina</i> and <i>D. thysanota</i>	Knudsen et al. 2013		
<i>Diplotomma</i>	<i>Buellia lecanoricola</i> Renob., nom. nud.: on <i>Lecanora albescens</i> , soon with it's own thallus <i>murorum</i> (A. Massal.) Coppins: lichenicolous lichen on <i>Caloplaca teicholyta</i> <i>nivalis</i> (Bagl. & Carestia) Hafellner: on <i>Xanthoria elegans</i> , <i>X. sorediata</i> and <i>Caloplaca</i> , soon with it's own thallus <b>parasiticum</b> (B. de Lesd.) Diederich, Cl. Roux & Van Haluwyn: on <i>Lecanora</i> gr. <i>dispersa</i> <i>scheideggerianum</i> (Bricaud & Cl. Roux) Nimis: lichenicolous lichen on <i>Caloplaca xantholyta</i> <i>vezdanum</i> (P. Scholz & Knoph) Coppins: lichenicolous lichen on <i>Caloplaca verruculifera</i>	Bricaud & Roux 1991 Duke & Purvis 2009 Hafellner 1979 Renobales 1996 Roux 2014		
<i>Endohyalina</i>	<b>brandii</b> Giralt, van den Boom & Elix: on <i>Aspicilia intermutans</i> , often lichenized with an own thallus <b>diederichii</b> Giralt, van den Boom & Elix: on <i>Ramalina</i> , occasionally lichenized with a reduced thallus <b>insularis</b> (Arnold) Giralt, van den Boom & Elix: on <i>Lecanora rupicola</i> agg., very	Giralt et al. 2010		

	rarely lichenized with a reduced thallus			
<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		<p><i>insularis</i> (H. Mayrhofer 15430a): ITS: <a href="#">DQ849302</a></p> <p><i>obnascens</i> (B42477): ITS: <a href="#">AJ544185</a></p>
<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		<p><b>phaeophysciae</b> (Nordin 4922): ITS: <a href="#">DQ198359</a></p> <p><b>phaeophysciae</b> (Nordin 5663): ITS: <a href="#">DQ201951</a></p> <p><b>pulverulentus</b> (Nordin 4427): ITS: <a href="#">DQ201953</a></p> <p><b>pulverulentus</b> (Nordin 4917): ITS: <a href="#">DQ201952</a></p>
Pilocarpaceae				
<i>Micarea</i>	<b>inquinans</b> (Tul.) Coppins: on <i>Dibaeis baeomyces</i>	Coppins 2009		
<i>Scutula</i> [incl. <i>Karsteniomyces</i> and <i>Libertiella</i> anamorphs]	<p><b>cladoniicola</b> Alstrup &amp; D. Hawksw.: on <i>Cladonia stricta</i></p> <p><b>Libertiella curvispora</b> D. Hawksw. &amp; Miadl.: on <i>Peltigera</i></p> <p><i>dedicata</i> Triebel, Wedin &amp; Rambold: lichenicolous lichen on <i>Peltigera</i></p> <p><b>Libertiella didymospora</b> D. Hawksw. &amp;</p>	Alstrup 1997 Alstrup & Hawksworth 1990 Boqueras & Diederich 1993 Etayo & Diederich 1995 Etayo & Sancho 2008 Etayo & Triebel 2010 Hawksworth 1980b Hawksworth 1981		<p><b>tuberculosa</b> [= <i>krempelhuberi</i>]: mtSSU: <a href="#">AY567789</a></p> <p><b>miliaris</b>: mtSSU: <a href="#">AY567790</a></p>

	<p>Miادل.: on <i>Peltigera</i>  <b>epiblastematica</b> (Wallr.) Rehm: on  <i>Peltigera</i>  <i>heerii</i> (Hepp) Trevis.: lichenicolous lichen  on <i>Peltigera</i>  <b>Libertiella fennica</b> Alstrup: on <i>Peltigera</i>  <b>Libertiella leprariae</b> Etayo &amp; Diederich:  on <i>Lepraria</i>  <b>Karsteniomyces llimonae</b> Boqueras &amp;  Diederich: on <i>Parmelina quercina</i>  <b>miliaris</b> (Wallr.) Trevis.: on <i>Peltigera</i>  [anamorph: <i>Karsteniomyces peltigeriae</i> (P.  Karst.) D. Hawksw.]  <b>Libertiella malmedyensis</b> Speg. &amp;  Roum.: on <i>Peltigera</i>  <b>nephromatis</b> (Speg.) Etayo: on <i>Nephroma</i>  <i>antarcticum</i>  <b>Libertiella obscurior</b> Gerber: on <i>Brodoa</i>  <i>intestiniiformis</i>  <b>pseudocyphellariae</b> Etayo &amp; Triebel: on  <i>Pseudocyphellaria</i>  <b>stereocaulorum</b> (Anzi) Körber: on  <i>Stereocaulon</i>  <b>tuberculosa</b> (Th. Fr.) Rehm: on <i>Solorina</i>  <b>Karsteniomyces tuberculosus</b> Alstrup  &amp; D. Hawksw.: on <i>Peltigera leucophlebia</i></p>	<p>Hawksworth &amp; Miadlikowska  1997a  Triebel et al. 1997  Wedin et al. 2007</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		



<p><i>Toninia</i></p>	<p><b>collematicola</b> Timdal: on <i>Collema episema</i> (Nyl.) Timdal: on <i>Aspicilia leptogii</i> Timdal: on <i>Collema</i> and <i>Leptogium nordlandica</i> Th. Fr.: lichenicolous lichen on <i>Placynthium</i> and other lichens with cyanobacteria  <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 ualae</i> Etayo: lichenicolous lichen on <i>Pseudocyphellaria</i> and <i>Nephroma antarcticum verrucariae</i> (Nyl.) Timdal: on <i>Bagliettoa</i> and <i>Encephalographa elisae verrucarioides</i> (Nyl.) Timdal: lichenicolous lichen on <i>Placynthium</i></p>	<p>Etayo &amp; Sancho 2008  Rambold &amp; Triebel 1992  Timdal 1992</p>		<p><b>plumbina</b>: ITS: <a href="#">AF282107</a>  <i>verrucarioides</i>: ITS: <a href="#">AF282128</a></p>
<p>Rhizocarpaceae</p>				
<p><i>Epilichen</i></p>	<p><i>glaucinigellus</i> (Nyl.) Hafellner: lichenicolous lichen on <i>Baeomyces scabrosus</i> (Ach.) Clements: lichenicolous lichen on <i>Baeomyces stellatus</i> Triebel: on <i>Lecidea</i> cf. <i>tessellata</i></p>	<p>Hafellner 1978  Triebel 1989</p>		
<p><i>Rhizocarpon</i></p>	<p><b>advenulum</b> (Leight.) Hafellner &amp; Poelt: on <i>Pertusaria flavicans</i> and <i>P. rupicola asiaticum</i> (Poelt) Poelt: lichenicolous lichen on <i>Sporastatia bryonthae</i> Poelt: on <i>Pertusaria bryontha captans</i> Poelt: lichenicolous lichen on <i>Aspicilia destructans</i> Alstrup: lichenicolous lichen on</p>	<p>Lumbsch et al. 2011  Rambold &amp; Triebel 1992</p>		

*Lecanora polytropa*

**dinothetes** Hertel & Leuckert: lichenicolous  
lichen on *Protoparmelia*

*diploschistidina* McCune: lichenicolous  
lichen on *Diploschistes muscorum*

*episilum* (Nyl.) Zahlbr, s.lat.: on saxicolous  
*Pertusaria*

*fratricida* Poelt & Nimis: lichenicolous  
lichen on *Rhizocarpon*

*fuegianum* Poelt, nom. nud.: lichenicolous  
lichen on *Rhizocarpon geographicum*

*furax* Poelt & V. Wirth: lichenicolous lichen  
on *Lecidea*

*inimicum* Poelt & Vězda: lichenicolous  
lichen on *Lecanora rupicola* s.lat.

*kakurgon* Poelt: lichenicolous lichen on  
*Aspicilia*

*kansuense* H. Magn.: lichenicolous lichen  
on *Aspicilia*

*lusitanicum* (Nyl.) Arnold: lichenicolous  
lichen on saxicolous *Pertusaria*

**malenconianum** (Limona & Werner)  
Hafellner & Mayrhofer: on *Diploschistes*

**narssaqense** Alstrup: on *Lecanora*  
*atromarginata*

**ochrolechiaie** (Poelt & Nimis) Hafellner: on  
*Ochrolechia parella*

*pusillum* Runem.: lichenicolous lichen on  
*Sporastatia*

*rapax* V. Wirth & Poelt: on *Acarospora*,  
*Aspicilia* and *Rimularia*

*renneri* Poelt: on *Dimelaena oreina*

*santessonii* Timdal: on *Tremolecia atrata*

	<p><i>schedomyces</i> Hafellner &amp; Poelt: on <i>saxicolous 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</i> <i>parella</i> and <i>Pertusaria</i></p>			
Teloschistaceae				
<i>Caloplaca</i> s. lat.	<p><i>anchonphoeniceon</i> Poelt &amp; Clauz.: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>epithallina</i> Lyngé: lichenicolous lichen on <i>Acarospora</i>, <i>Aspicilia</i>, <i>Dimelaena</i>, <i>Lecanora</i>, <i>Melanelia</i>, <i>Pleopsidium</i>, <i>Psorinia</i>, <i>Rhizocarpon</i>, <i>Rhizoplaca</i>, <i>Stereocaulon</i>, <i>Tephromela</i>, <i>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</i>, <i>Aspicilia</i>, <i>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</i>, <i>Caloplaca</i>, <i>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>lecanorae</i> F. C. Seavey &amp; J. L. Seavey: lichenicolous lichen on <i>Lecanora leprosa</i></p> <p><i>magni-filii</i> Poelt: lichenicolous lichen on <i>Miriquidica nigroleprosa</i></p>	<p>Breuss 1990 Fryday &amp; Øvstedal 2012 Nimis et al. 1994 Olech &amp; Sjøchting 1993 Rambold &amp; Triebel 1992 Seavey &amp; Seavey 2012 Wetmore 1999</p>		

	<p><i>megalariicola</i> Øvstedal: lichenicolous lichen on <i>Megalaria grossa</i></p> <p><i>necator</i> Clauz. &amp; Poelt: lichenicolous lichen on <i>Aspicilia</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>			
<i>Catenarina</i>	<p><i>desolata</i> Søchting, Søgaard &amp; Elvebakk: lichenicolous lichen on <i>Aspicilia</i></p>	Søchting et al. 2014		<p><i>desolata</i> (USE4077): mtSSU: <a href="#">KF657319</a></p> <p><i>desolata</i> (USE917): ITS: <a href="#">KF657317</a></p> <p><i>desolata</i> (USE982): ITS: <a href="#">KF657316</a></p> <p><i>desolata</i> (USE356): ITS: <a href="#">KF657314</a></p> <p><i>desolata</i> (USE357): ITS: <a href="#">KF657313</a></p> <p><i>desolata</i> (2310 C): ITS: <a href="#">KF657315</a></p>
<i>Flavoplaca</i>	<p><i>polycarpa</i> (A. Massal.) Arup, Frödén &amp; Søchting: lichenicolous lichen on <i>Bagliettoa</i></p>	Arup et al. 2013		
<i>Fulgensia</i>	<p><i>epiplacynthium</i> Etayo: lichenicolous lichen on <i>Placynthium filiforme</i></p>	Etayo 2010c		
<i>Pachypeltis</i>	<p><i>invadens</i> (Lyngé) Søchting, Frödén &amp; Arup: lichenicolous lichen on <i>Lecanora</i>, <i>Physcia caesia</i></p>	Arup et al. 2013		<p><i>invadens</i> (Elvebakk 03-109) : ITS : <a href="#">KC179108</a></p>
Lecanorales incertae sedis				
<i>Corticifraga</i>	<p><b>chugachiana</b> Zhurb.: on <i>Lobaria oregana</i></p> <p><b>fuckelii</b> (Rehm) D. Hawksw. &amp; R. Sant.: on <i>Peltigera</i></p> <p><b>fusispora</b> Zhurb.: on <i>Peltigera aphthosa</i> and <i>P. leucophlebia</i></p>	<p>Etayo &amp; Sancho 2008</p> <p>Hawksworth &amp; Santesson 1990</p> <p>Zhurbenko 2007c</p> <p>Zhurbenko 2009b</p>		

	<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>			
<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: lichenicolous lichen on <i>Ramalina</i>	Etayo & Sancho 2008 Hafellner 2002 Hafellner 2004b		<i>intrusum</i> (Ekman s.n.): nrLSU: <a href="#">AY756329</a> ; mtSSU: <a href="#">AY567767</a> ; <i>RPBI</i> : <a href="#">AY756391</a>
<i>Umbilithecium</i>	<b>pseudocyphellariae</b> Etayo: on <i>Pseudocyphellaria</i>	Etayo & Sancho 2008		
<i>Umushamyces</i>	<b>kuturnum</b> Etayo: on <i>Coccotrema</i> <i>cucurbitula</i>	Etayo & Sancho 2008		
<b>Lecanoromycetes incertae sedis</b>				
<i>Piccolia</i>	<i>nannaria</i> (Tuck.) Lendemer & Beeching: lichen, at least facultative lichenicolous on <i>Pyrrhospora varians</i>	Lendemer & Harris 2014		

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

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	Species ( <b>lichenicolous fungi in bold;</b> <i>lichenicolous lichens or facultative lichenicolous fungi in italics)</i>	<a href="#">Significant literature</a>	Cultures (with accession numbers when known; <a href="#">culture collection links)</a>	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		
Stictidaceae				
<i>Nanostictis</i>	<b>christiansenii</b> Etayo: on <i>Lobaria</i>	Etayo 2002a Etayo & Diederich 1996b		

	<p><i>pulmonaria</i>  <b>nephromatis</b> Etayo: on <i>Nephroma antarcticum</i>  <b>peltigerae</b> M.S. Christ.: on <i>Peltigera pluriseptata</i> 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></p>	Etayo & Sancho 2008		
<i>Sphaeropezia</i>	<p><b>bryoriae</b> (Diederich &amp; Etayo) Baloch &amp; Wedin: on <i>Bryoria</i>  <b>cularis</b> (Norman) Baloch &amp; Wedin: on <i>Parmeliopsis</i>  <b>figulina</b> (Norman) Baloch &amp; Wedin: on <i>Lecanora polytropa</i>  <b>intermedia</b> (Diederich, Zhurb. &amp; Etayo) Baloch &amp; Wedin: on <i>Thamnolia vermicularis</i>  <b>japewiae</b> (Zhurb. &amp; Diederich) Baloch &amp; Wedin: on <i>Japewia tornoënsis</i>  <b>lecanorae</b> (Diederich &amp; Marson) Baloch &amp; Wedin: on <i>Lecanora</i>  <b>melaneliae</b> (Diederich &amp; Zhurb.) Baloch, Gilenstam &amp; Wedin: on <i>Melanelia hepatizon</i> and <i>Melanohalea olivacea</i>  <b>mycoblasti</b> Diederich, Baloch &amp; Wedin: on <i>Mycoblastus</i>  <b>navarinoi</b> (Etayo) Baloch &amp; Wedin: on <i>Micarea magellanica</i>  <b>ochrolechia</b> (Diederich, Holien &amp; Zhurb.) Baloch &amp; Wedin: on <i>Ochrolechia</i>  <b>pertusariae</b> (Etayo, Diederich &amp; Coppins) Baloch &amp; Wedin: on <i>Pertusaria hymenea</i>  <b>rhizocarpicola</b> (Zhurb., Diederich &amp;</p>	Baloch et al. 2013 Diederich et al. 2002 Etayo & Sancho 2008 Zhurbenko 2009b		<p><b>mycoblasti</b> (EB-2012b; HOLOTYPE): nrLSU: <a href="#">JX266159</a>; mtSSU: <a href="#">JX266157</a>; <i>RPB2</i>: <a href="#">JX266161</a>  <b>ochrolechia</b> (EB-2012c): nrLSU: <a href="#">JX266160</a></p>

	<p>Himmelbrant) Baloch &amp; Wedin: on <i>Rhizocarpon</i> gr. <i>geographicum</i></p> <p><b>santessonii</b> (Zhub., Etayo &amp; Diederich) Baloch &amp; Wedin: on <i>Thamnolia vermicularis</i></p> <p><b>sipei</b> (Grumann) Baloch &amp; Wedin: on <i>Letharia</i></p> <p><b>thamnoiae</b> (Zhub., Diederich &amp; Etayo) Baloch &amp; Wedin: on <i>Thamnolia</i></p> <p><b>sp. 2:</b> on <i>Usnea</i></p> <p><b>sp. 3:</b> on <i>Lecanora</i></p>			
<i>Stictis</i> s. lat.	<b>cladoniae</b> (Rehm) Sacc.: on <i>Cladonia</i>	Sherwood 1977		
Thelotremataceae				
<i>Diploschistes</i>	<p><i>bisporus</i> (Bagl.) Steiner: lichen, facultative lichenicolous on <i>Rhizocarpon geographicum</i> s. lat.</p> <p><i>caesioplumbeus</i> (Nyl.) Vainio: lichen, facultative lichenicolous on <i>Lecanora gangaleoides</i></p> <p><i>euganeus</i> (A. Massal.) Steiner: lichen, facultative lichenicolous on <i>Ochrolechia parella</i></p> <p><b>muscorum</b> (Scop.) R. Sant.: lichenicolous on <i>Cladonia</i> (rarely <i>Stereocaulon</i>) when young, later an independent lichen</p>	Lumbsch 1989		<p><i>caesioplumbeus</i> (SFB 30): ITS: <a href="#">KC166974</a>; mtSSU: <a href="#">KC167027</a></p> <p><i>caesioplumbeus</i> (SFB 28): ITS: <a href="#">KC166973</a>; mtSSU: <a href="#">KC167026</a></p> <p><i>caesioplumbeus</i> (SFB 40): ITS: <a href="#">KC166975</a></p> <p><i>caesioplumbeus</i> (BCNLich 17182): nrLSU: <a href="#">HQ659181</a>; mtSSU: <a href="#">HQ659170</a></p> <p><i>euganeus</i> (SFB 29): ITS: <a href="#">KC166986</a>; mtSSU: <a href="#">KC167038</a></p> <p><i>euganeus</i> (DNA6796): ITS: <a href="#">KF688485</a>; nrLSU: <a href="#">KF688494</a>; <i>RPB2</i>: <a href="#">KF688544</a>; <i>RPB1</i>: <a href="#">KF688528</a>; mtSSU: <a href="#">KF688508</a></p> <p><i>euganeus</i> (DNA6795): nrLSU: <a href="#">KF688493</a>; <i>RPB2</i>: <a href="#">KF688543</a>; <i>RPB1</i>: <a href="#">KF688527</a>; mtSSU: <a href="#">KF688507</a></p> <p><b>muscorum</b> (SFB 3): ITS:</p>



				<p>KC167004; nrLSU:  KC167077; mtSSU: KC167055  <b>muscorum</b> (SFB 140): ITS:  KC167008; mtSSU: KC167059  <b>muscorum</b> (SFB 125): ITS:  KC167007; mtSSU: KC167058  <b>muscorum</b> (SFB 79): ITS:  KC167006; mtSSU: KC167057  <b>muscorum</b> (SFB 45): ITS:  KC167005; mtSSU: KC167056  <b>muscorum</b> (M. Arnot L658):  RPB2: AY485623  <b>muscorum</b> (MUSDIP-1): ITS:  AF228319  <b>muscorum</b> (MUSDIP-3): ITS:  AF229193  <b>muscorum</b> (Palice 2805): nrLSU:  AY300836; mtSSU:  AY300886  <b>muscorum</b> subsp. bartlettii:  (Kalb 2002): mtSSU:  DQ384868  <b>muscorum</b> (DNA6797): nrLSU:  KF688495; RPB2: KF688545;  RPBI: KF688529; mtSSU:  KF688509</p>
Ostropales incertae sedis				
<i>Abaarnia</i>	<b>siphulicola</b> Diederich: on <i>Siphula decumbens</i>	Diederich 2014		
<i>Biazrovia</i>	<b>stereocaulicola</b> Zhurb. & Etayo: on <i>Stereocaulon</i>	Zhurbenko & Etayo 2013		
<i>Normanogalla</i>	<b>cribriformis</b> (Norman) Diederich: on <i>Pertusaria dactylina</i> and <i>P. oculata</i>	Alstrup & Hawksworth 1990 Diederich 2014		
<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 <b>usneae</b> Flakus, Kukwa & Etayo: on <i>Usnea</i>	Diederich 2004 Flakus & Kukwa 2012 Sherwood-Pike 1987		
<b>Ostropomycetidae incertae sedis</b>				
<i>Phaeopyxis</i>	<b>australis</b> Rambold & Triebel: on <i>Paraporpidia</i> <b>muscigenae</b> Alstrup & E. S. Hansen: on <i>Physconia</i> <b>punctum</b> (A. Massal.) Rambold, Triebel & Coppins: on <i>Cladonia</i> <b>varia</b> Coppins, Rambold & Triebel: on <i>Trapeliopsis</i>	Alstrup & Hansen 2001 Rambold & Triebel 1990 Suija et al 2014/15		<b>punctum</b> (TU68298): ITS: <a href="#">KJ559545</a> ; nrLSU: <a href="#">KJ559568</a> ; nrSSU: <a href="#">KJ559588</a> <b>punctum</b> (Diederich 17303): ITS: <a href="#">KJ559551</a> ; nrSSU: <a href="#">KJ559591</a> <b>punctum</b> (TU65586): ITS: <a href="#">KJ559544</a> ; nrLSU: <a href="#">KJ559567</a> ; nrSSU: <a href="#">KJ559587</a>

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	Species ( <b>lichenicolous fungi in bold</b> ; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <b>culture collection links</b> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Helotiales</b>				
Helotiaceae subfam. Encoelioideae				
<i>Diplolaeviopsis</i>	<b>ranula</b> Giralt & D. Hawksw.: on <i>Lecanora strobilina</i> and <i>L. strobilinoides</i> <b>symmictae</b> Diederich & Coppins: on <i>Lecanora symmicta</i>	Diederich & Coppins 2014 Giralt & Hawksworth 1991 Suija et al 2014/15		<b>ranula</b> (Diederich 16989): ITS: <a href="#">KJ559532</a> ; nrLSU: <a href="#">KJ559554</a>
<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</i>	Diederich & Etayo 2000 Diederich et al. 2010 Etayo 2010b Pérez-Ortega et al. 2011 Suija et al 2014/15		<b>gregorellae</b> (Vondrák 8374): ITS: <a href="#">KJ559547</a> ; nrLSU: <a href="#">KJ559569</a> ; nrSSU: <a href="#">KJ559589</a> <b>gregorellae</b> (CBFS JV9954):

**catapyrenii** Zhurb., Kukwa & Flakus: on  
*Catapyrenium*  
**cinnabarinae** Pérez-Ortega, Etayo & T.  
Sprib.: on *Ramboldia cinnabarina*  
**fuscatae** Hafellner & Obermayer: on  
*Acarospora fuscata*  
**gregorellae** (Alstrup & D, Hawksw.)  
Triebel & Hafellner: on *Gregorella*  
*humida*  
**groenlandiae** (Alstrup & D, Hawksw.)  
Triebel & Hafellner: on *Caloplaca* and  
*Fulgensia*  
**heppiae** (Nav.-Ros., Hladun & Llimona)  
Diederich & Ertz: on *Heppia*  
**muralicola** Halici: on *Lecanora muralis*  
(probably belongs to *Unguiculariopsis*)  
**pertusariae** Diederich & Etayo: on  
*Pertusaria glaucomela* and *P. ophthalmiza*  
**phaeophysciae** Diederich, Ertz & Etayo:  
on *Phaeophyscia*  
**placomaroneae** Etayo & Diederich: on  
*Placomaronea candelarioides*  
**placopsidis** Diederich & Fryday: on  
*Placopsis*  
**pyrenulae** Diederich & Etayo: on *Pyrenula*  
**ramalinae** (Müll. Arg.) Etayo & Diederich:  
on *Ramalina celastri* and *R. unilateralis*  
**terricola** (Arnold) M. Schultz, Diederich &  
Ertz: on *Epiphloea byssina*  
**scabridula** (Müll. Arg.) Nav.-Ros. &  
Hafellner: on *Acarospora nodulosa* and *A.*  
*placodiiiformis*  
**vinosa** (Holien & Triebel) Diederich &  
Etayo: on *Ochrolechia* and *Pertusaria* cf.

Zhurbenko 2013a

ITS: [KJ559531](#); nrLSU:  
[KJ559553](#); nrSSU: [KJ559581](#)  
**sp.** (Diederich 17525): ITS:  
[KJ559533](#); nrLSU: [KJ559555](#)

<p><i>Rhymbocarpus</i></p>	<p><i>borealis</i></p> <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>Roccella</i></p> <p><b>stereocaulorum</b> (Alstrup &amp; D. Hawksw.) Etayo &amp; Diederich: on <i>Stereocaulon</i></p>	<p>Diederich &amp; Etayo 2000 Diederich et al. 2010 Etayo &amp; Diederich 2011 Suija et al 2014/15</p>		<p><b>fuscoatrae</b> (Ertz 16200): ITS: <a href="#">KJ559549</a>; nrLSU: <a href="#">KJ559571</a>; nrSSU: <a href="#">KJ559593</a></p>
<p><i>Skyttea</i></p>	<p><b>anzia</b> Etayo &amp; Diederich: on <i>Anzia arenicola</i></p> <p>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>Alstrup &amp; Hansen 2001 Diederich &amp; Etayo 2000 Diederich &amp; Etayo 2004 Etayo 2002a Etayo 2010c Etayo &amp; Sancho 2008 Hafellner 2000 Navarro-Rosinès &amp; Muñiz 2009</p>	<p><b>nitschkei</b>: Culture obtained by Crittenden et al. (1995)</p>	<p><b>gregaria</b> (NY0118113): ITS: <a href="#">KJ559537</a>; nrLSU: <a href="#">KJ559559</a></p> <p><b>lecanorae</b> (Ertz 16099): nrLSU: <a href="#">KJ559574</a>; nrSSU: <a href="#">KJ559597</a></p> <p><b>lecanorae</b> (NY1595972): ITS: <a href="#">KJ559539</a>; nrLSU: <a href="#">KJ559561</a></p> <p><b>nitschkei</b> (Ertz 17483): nrLSU:</p>

**carbonea** Diederich & Etayo: on *Carbonea 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*

Suija et al 2014/15

[KJ559577](#); nrSSU: [KJ559595](#)  
**pyrenulae** (Ertz 16253): nrLSU: [KJ559575](#); nrSSU: [KJ559596](#)  
**radiatilis** (NY00977030): ITS: [KJ559536](#); nrLSU: [KJ559558](#)  
**radiatilis** (NY01231276): ITS: [KJ559538](#); nrLSU: [KJ559560](#)

	<p><b>tephromelarum</b> Kalb &amp; Hafellner: on <i>Tephromela</i></p> <p><b>thelotrematis</b> Diederich &amp; Etayo: on <i>Thelotrema lepadinum</i></p> <p><b>violacea</b> Etayo: on <i>Tephromela</i></p> <p><b>viridis</b> D. Hawksw. &amp; Coppins: on cf. <i>Micarea denigrata</i></p>			
<i>Thamnogalla</i>	<p><b>crombiei</b> (Mudd) D. Hawksw.: on <i>Thamnotia</i></p>	<p>Hoffmann &amp; Hafellner 2000</p> <p>Lord et al. 2013</p> <p>Suija et al 2014/15</p>		<p><b>crombiei</b> (Diederich 17315): ITS: <a href="#">KJ559550</a>; nrLSU: <a href="#">KJ559578</a>; nrSSU: <a href="#">KJ559594</a></p> <p><b>crombiei</b> (Diederich 17544): ITS: <a href="#">KJ559534</a>; nrLSU: <a href="#">KJ559556</a>; nrSSU: <a href="#">KJ559556</a></p> <p><b>crombiei</b> (Diederich 17553): ITS: <a href="#">KJ559535</a>; nrLSU: <a href="#">KJ559557</a>; nrSSU: <a href="#">KJ559583</a></p>
<i>Unguiculariopsis</i>	<p><b>acrocordiaie</b> (Diederich) Diederich &amp; Etayo: on <i>Acrocordia gemmata</i></p> <p><b>ahatii</b> D. Hawksw., D. J. Galloway &amp; S. Y. Kondr.: on <i>Pseudocyphellaria</i></p> <p><b>damingshanica</b> W. Y. Zhuang: on unidentified lichen on bamboo</p> <p><b>hispidula</b> Etayo: on <i>Psoroma hispidulum</i></p> <p><b>lesdainii</b> (Vouaux) Etayo &amp; Diederich: on <i>Lecanora saligna</i></p> <p><b>lettaui</b> (Grummann) Coppins: on <i>Evernia prunastri</i></p> <p><b>lobariellum</b> S. Y. Kondr. &amp; D. J. Galloway: on <i>Lobaria</i> and <i>Durietzia</i></p> <p><b>lucaniae</b> Brackel: on <i>Lecidella elaeochroma</i></p> <p><b>macrocarpa</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>manriquei</b> Etayo: on <i>Lobaria pulmonaria</i></p> <p><b>refractiva</b> (Coppins) Coppins: on <i>Bilimbia</i></p>	<p>Brackel 2011a</p> <p>Coppins 1988</p> <p>Diederich &amp; Etayo 2000</p> <p>Etayo &amp; Diederich 1996b</p> <p>Etayo &amp; Sancho 2008</p> <p>Kondratyuk &amp; Galloway 1995a</p> <p>Kondratyuk &amp; Galloway 1995b</p> <p>Kondratyuk et al. 1994</p> <p>Suija et al 2014/15</p> <p>Zhuang 2000</p>		<p><b>lettaui</b> (TU45124): ITS: <a href="#">KJ559541</a>; nrLSU: <a href="#">KJ559563</a></p> <p><b>lettaui</b> (TU64867): ITS: <a href="#">KJ559543</a>; nrLSU: <a href="#">KJ559566</a>; nrSSU: <a href="#">KJ559586</a></p> <p><b>lettaui</b> (Ertz 16346): ITS: <a href="#">KJ559548</a>; nrLSU: <a href="#">KJ559579</a>; nrSSU: <a href="#">KJ559592</a></p> <p><b>thallophila</b> (TU45703): nrLSU: <a href="#">KJ559565</a></p> <p><b>thallophila</b> (Diederich 16944): nrLSU: <a href="#">KJ559573</a></p>

	<b>thallophila</b> (P. Karst) W. Y. Zhuang: on <i>Lecanora</i> <b>triorgia</b> S. Y. Kondr. & D. J. Galloway: on <i>Sticta</i> [see also <i>Llimoniella muralicola</i> Halici: on <i>Lecanora muralis</i> ]			
Helotiales incertae sedis				
<i>Bryoscyphus</i>	<b>lichenicola</b> Alstrup & M. S. Cole: on <i>Cladonia</i> cf. <i>pyxidata</i>	Alstrup & Cole 1998		
<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</i> <b>lesdainii</b> (Vouaux) Etayo & Diederich: on <i>Lecania</i>	Etayo & Diederich 2000 Zhurbenko 2009a		
<i>Geltingia</i>	<b>associata</b> (Th. Fr.) Alstrup & D. Hawksw.: on <i>Ochrolechia</i> , <i>Pertusaria</i> and <i>Thamnolia</i>	Alstrup & Hawksworth 1990 Diederich et al. 2010 Suija et al 2014/15		<b>associata</b> (TU45655): ITS: <a href="#">KJ559542</a> ; nrLSU: <a href="#">KJ559564</a> ; nrSSU: <a href="#">KJ559585</a> <b>associata</b> (Pérez-Ortega 1039): ITS: <a href="#">KJ559540</a> ; nrLSU: <a href="#">KJ559562</a> ; nrSSU: <a href="#">KJ559584</a> <b>associata</b> (Björk 22459): nrLSU: <a href="#">KJ559576</a> ; nrSSU: <a href="#">KJ559580</a>
<i>Hyalopeziza</i>	<b>rapax</b> Huhtinen: on <i>Pseudocyphellaria</i>	Huhtinen et al. 2008		
<i>Lachnella</i>	<b>tetraspora</b> (P. Henn.) Vouaux: on <i>Physcia integrata</i>	Clauzade et al. 1989 Vouaux 1914		
<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		
<i>Pezizella</i> auct.	<b>epithallina</b> (W. Phillips & Plowr.) Sacc.: on <i>Peltigera</i>	Etayo 2002a Hawksworth 1980b Kondratyuk & Galloway 1995a		<b>epithallina</b> (TU39378): ITS: <a href="#">KJ559546</a> ; nrLSU: <a href="#">KJ559570</a> ;

	<b>stictae</b> Etayo: on <i>Sticta</i> <b>ucrainica</b> (S. Y. Kondr.) S. Y. Kondr.: on <i>Cladonia</i>	Oksner 2010 Suija et al 2014/15		nrSSU: <a href="#">KJ559590</a> <b>epithallina</b> (Diederich 17411): ITS: <a href="#">KJ559552</a> ; nrLSU: <a href="#">KJ559572</a>
<i>Pleoscutula</i>	<b>arsenii</b> Vouaux: on <i>Heterodermia</i> <b>hypotrachynae</b> Etayo & Diederich: on <i>Hypotrachyna</i>	Etayo 2002a Hafellner 1982b		
<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</i> <i>stenospora</i> <b>nephromatis</b> (Zhub. & Zavarzin) Huhtinen, D. Hawksw. & Ihlen: on <i>Nephroma</i>	Etayo 2010b Etayo & Triebel 2010 Huhtinen et al. 2008 Zhurbenko 2007a		
<i>Skyttella</i>	<b>mulleri</b> (Willey) D. Hawksw. & R. Sant.: on <i>Peltigera</i>	Hawksworth & Santesson 1988		

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	Species ( <b>lichenicolous fungi in bold</b> ; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i> )	<b>Significant literature</b>	Cultures (with accession numbers when known; <b>culture</b> <b>collection links</b> )	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>arctica</b> Zhurb.: on <i>Candelariella canadensis</i>	Aptroot et al. 1997 Calatayud et al. 2000 Etayo 2010c Etayo 2011 Etayo et al. 2013 Etayo & Navarro-Rosinés 2008 Etayo & Sancho 2008 Hafellner 1989		



and neighbouring *Rinodina terrestris*  
**atrans** Halici, K. Knudsen & Candan: on  
*Psora decipiens*  
**bellemerei** Nav.-Ros., Cl. Roux &  
Diederich: on *Menegazzia*  
**caloplacae** Zhurb.: on *Caloplaca*  
**clauzadei** Nav.-Ros., Cl. Roux & Llimona:  
on *Squamarina*  
**coarctatae** (B. de Lesd.) Hafellner & F.  
Berger: on *Trapelia*  
**collematum** Nik. Hoffm. & Hafellner: on  
*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

Hafellner & Berger 2000  
Hafellner & Zimmermann 2012  
Hoffmann & Hafellner 2000  
Ihlen & Wedin 2005  
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  
Zhurbenko 2013a  
Zhurbenko & Brackel 2013

	<p><i>Lecidella elaeochroma</i></p> <p><b>lepidiotae</b> (Anzi) Etayo &amp; Nav.-Ros.: on <i>Fuscopannaria praetermissa</i></p> <p><b>mediterraneae</b> Calat., Nav.-Ros. &amp; E. Calvo: on <i>Fuscopannaria mediterranea</i></p> <p><b>monegrina</b> Etayo: on terricolous <i>Polyblastia</i></p> <p><b>obscuroides</b> (Linds.) Triebel &amp; Rambold: on <i>Phaeophyscia</i>, more rarely <i>Physcia</i></p> <p><b>paucispora</b> Etayo &amp; Nav.-Ros.: on <i>Bilimbia sabuletorum</i></p> <p><b>physciicola</b> (Ihlen &amp; R. Sant.)Hafellner: on <i>Physcia dubia</i></p> <p><b>polycoccoides</b> Hafellner &amp; R. Sant.: on <i>Physcia tribacia</i></p> <p><b>pyrenodesmiae</b> Nav.-Ros. &amp; Cl. Roux: on <i>Caloplaca cf. variabilis</i></p> <p><b>rinodinae</b> Zhurb.: on <i>Rinodina</i></p> <p><b>sinapispermae</b> Etayo &amp; Nav.-Ros.: on <i>Caloplaca sinapisperma</i></p> <p><b>tertia</b> Etayo, Flakus &amp; Rodr. Flakus: on <i>Xanthoria elegans</i></p> <p><b>thorii</b> Zhurb.: on <i>Aspicilia moenium</i></p> <p><b>verrucicola</b> (Wedd.) Nik. Hoffm. &amp; Hafellner: on <i>Aspicilia calcarea</i>, <i>A.</i> <i>cinerea</i> and <i>A. contorta</i></p> <p><b>wasseri</b> S.Y. Kondr.: on <i>Caloplaca</i></p> <p><b>weillii</b> (Werner) Hafellner &amp; R. Sant.: on <i>Physconia</i></p> <p><b>xanthoriae</b> Triebel &amp; Rambold: on <i>Xanthoria elegans</i> (and <i>Caloplaca</i>?)</p>			
<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		

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	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <b>culture collection links</b> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Hypocreales</b>				
Bionectriaceae				
<i>Acremonium</i>	<p><b>antarcticum</b> (Speg.) D. Hawksw.: on various lichens, facultative lichenicolous</p> <p><b>bavaricum</b> Brackel: on <i>Melanelixia glabratula</i></p> <p><b>hypholomatis</b> (Boedijn) D. Hawksw.: on <i>Physcia stellaris</i>, facultative lichenicolous</p> <p><b>lichenicola</b> W. Gams: on lichens and other substrata</p> <p>[<i>pedatum</i> Lowen: on <i>Hypogymnia physodes</i> = anamorph of <i>Trichonectria anisospora</i>]</p> <p><i>persicinum</i> (Nicot) W. Gams: isolated from lichens, facultative lichenicolous</p> <p><b>pertusariae</b> Brackel &amp; Etayo: on</p>	<p>Brackel et al. 2012</p> <p>Diederich 1989</p> <p>Diederich &amp; Braun 2009</p> <p>Hawksworth 1979a</p> <p>Lowen 1995</p>	<p><b>antarcticum</b>: CBS 987.87; BCRC</p> <p><b>bavaricum</b>: CIRM</p> <p><b>lichenicola</b>: CBS (6 strains); VKM; BCRC</p> <p><i>persicinum</i>: BCCM; UAMH; CCM; LCP; DSMZ; ITCC; MTCC; IFO; JCM; CBS; KMM; BCRC; IMI; ATCC; ARS (NRRL)</p> <p><b>pertusariae</b>: CIRM (isotype)</p> <p><i>rhabdosporum</i> (= anamorph of <i>Trichonectria rubefaciens</i>): CBS; BCRC</p>	<p><b>antarcticum</b> (CBS 987.87): nrSSU+ITS: <a href="#">DQ825970</a>; nrLSU: <a href="#">EF543830</a></p> <p><i>persicinum</i> (AFTOL 1391, CBS 310.59): nrLSU: <a href="#">FJ176878</a>; nrSSU: <a href="#">FJ176822</a>; <i>RPB2</i>: <a href="#">FJ238361</a></p> <p><i>persicinum</i>: 5SRNA: <a href="#">X00866</a>; <a href="#">X00865</a>; <a href="#">X00864</a></p>

	<p><i>Pertusaria psychrophilum</i> Möller &amp; Gams: isolated from lichens  [rhabdosporum W. Gams: on <i>Parmelia</i>, also reported from <i>Cladonia</i> = anamorph of <i>Trichonectria rubefaciens</i>]  <b>spgazzinii</b> D. Hawksw.: on <i>Leptogium strictum</i> W. Gams: facultative lichenicolous  <b>subeffusum</b> (Ellis &amp; Galw.) Etayo &amp; Brackel: on <i>Physcia millegrana</i> and possibly other lichens</p>		<p><i>rhabdosporum</i>: culture obtained by Lowen 1995</p>	
<i>Atronectria</i>	<p><b>magellanica</b> Etayo: on <i>Pseudocyphellaria</i> and <i>Nephroma</i></p>	Etayo & Sancho 2008		
<i>Globonectria</i>	<p><b>cochensis</b> Etayo: on <i>Lobaria pallida</i></p>	Etayo 2002a		
<i>Nectriopsis</i>	<p><b>Nectria brutia</b> Diederich &amp; Puntillo: on <i>Collema</i>  <b>cariosa</b> Brackel &amp; D. G. Zimmermann: on <i>Cladonia</i>  <b>cladoniicola</b> M. S. Cole &amp; D. Hawksw.: on <i>Cladonia</i>  <b>coccocarpiae</b> Diederich: on <i>Coccocarpia</i>  <b>collematis</b> Diederich: on <i>Collema</i>  <b>guamuesii</b> Etayo: on <i>Sticta</i>  <b>hirta</b> Etayo: on <i>Pertusaria albescens</i> and <i>P. pertusa</i>  <b>heterodermiae</b> Etayo: on <i>Heterodermia</i>  <b>hirta</b> Etayo: on <i>Pertusaria</i>  <b>indigens</b> (Arnold) Diederich &amp; Schroers: on perithecioid lichens, often near water  <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>Alstrup 1996  Aptroot et al. 1997  Brackel &amp; Zimmermann 2012  Cole &amp; Hawksworth 2001  Diederich &amp; Puntillo 1995  Earland-Bennett et al. 2006  Etayo 2002a  Etayo 2010a  Etayo &amp; Sancho 2008  Matzer 1996  Samuels 1988  Sérusiaux et al. 1999</p>	<p><b>lecanodes</b>: ATCC MYA-3179  <b>lecanodes</b>: CBS 102482</p>	

	<p><b>leptogii</b> Diederich: on <i>Leptogium lichenophila</i> (Speg.) Etayo: on <i>Heterodermia micareae</i> Diederich, van den Boom &amp; Ernst: on <i>Micarea mindoensis</i> (Petrak) (Petr.) Samuels: facultative lichenicolous on <i>Coenogonium peruvianus</i> Etayo &amp; R. Sant.: on <i>Dictyonema</i> and <i>Coccocarpia physciicola</i> D. Hawksw. &amp; Earl.-Benn.: on <i>Physcia 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>	<b>parmeliae</b> (ATCC 200561): nrSSU: <a href="#">AF289657</a>
<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>	Clauzade et al. 1989 Hawksworth 1982a Rossman et al. 1999 Zhurbenko 2009d	<b>oropensis</b> : CBS 115018	
<i>Pronectria</i>	<p><b>algiticola</b> Vondrák, Naumovich &amp; Khodos.: on terricolous microbial crusts possibly associated with <i>Sarcosagium</i> or <i>Steinia</i></p> <p><b>angulospora</b> Etayo: on <i>Heterodermia caloplacae</i> Khodos., Vondrák &amp; Naumovich: on <i>Caloplaca austroctrina</i></p> <p><b>casaresii</b> Etayo: on <i>Evernia prunastri</i></p>	Brackel 2013 Brackel & Etayo 2010 Etayo 1998 Etayo 2001 Etayo 2002a Etayo 2010b Etayo 2010c Etayo & Breuss 1996 Etayo & Diederich 1996b	<p><b>oligospora</b>: Culture RL929-92 obtained by Lowen (1995)</p> <p><b>robergei</b>: CBS 128021</p> <p><b>robergei</b> (as <i>Illosporium carneum</i>): ATCC 201590</p> <p><b>santessonii</b>: ATCC 62531 (listed as <i>Nectriella santessonii</i>)</p>	<b>robergei</b> (as <i>Illosporium carneum</i> ) (ATCC 201590): nrSSU: <a href="#">AF289655</a>

	<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>diplococca</b> Kocourk., Khodos., Naumovich, Vondrák &amp; Motiej.: on <i>Collema echinulata</i> Lowen: on <i>Physcia 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 leptogii</i> Etayo: on <i>Leptogium microspora</i> Etayo: on <i>Lobaria pallida minuta</i> Motiej. &amp; Kukwa: on <i>Cladonia</i> subg. <i>Cladina</i></p> <p><b>occulta</b> Etayo: on <i>Usnea oligospora</i> Lowen &amp; Rogersen: on <i>Punctelia oligospora</i> var. <b>octospora</b> Etayo: on <i>Punctelia parmotrematis</i> Etayo: on <i>Parmotrema pedemontana</i> Brackel: on <i>Collema auriforme</i></p> <p><b>pertusariicola</b> Lowen: on <i>Pertusaria pilosa</i> Etayo &amp; López Silanes: on <i>Collema robergei</i> (Mont. &amp; Desm.) Lowen: on <i>Peltigera</i> [anamorph: <i>Illosporium carneum</i> Fr.]</p> <p><b>rolfiana</b> Etayo: on <i>Solorina</i></p>	<p>Etayo &amp; Sancho 2008 Etayo &amp; Triebel 2010 Hawksworth 1979a Khodosovtsev 2012 López de Silanes et al. 2009 Lowen 1995 Lowen &amp; Diederich 1990 Lowen &amp; Hawksworth 1986 Motiejunaite &amp; Kukwa 2008 Rossman et al. 1999 Sikaroodi et al. 2001 Zhurbenko 2007b Zhurbenko 2009d Zhurbenko &amp; Alstrup 2004 Zhurbenko et al. 2005</p>		
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	<p><b>roseopunctata</b> Etayo: on <i>Hypotrachyna</i>  <b>santessonii</b> (Lowen &amp; D. Hawksw.)  Lowen: on <i>Anaptychia runcinata</i>  <b>sticticola</b> Etayo: on <i>Sticta</i>  <b>subimperspicua</b> (Speg.) Lowen: on  <i>Punctelia</i>  <b>tenacis</b> (Vouaux) Lowen: on <i>Collema</i>  <b>tenuispora</b> (D. Hawksw.) Lowen: on  <i>Peltigera</i>  <b>terrestris</b> Lowen &amp; Diederich: on  <i>Thrombium epigaeum</i>  <b>tibellii</b> Zhurb.: on <i>Cladonia</i>  <b>tincta</b> (Fuckel) Lowen: on <i>Anaptychia</i>  <i>ciliaris</i>  <b>rolfiana</b> Etayo: on <i>Solorina</i>  <b>toniniae</b> Etayo: on <i>Toninia sedifolia</i>  <b>verrucariae</b> (Vouaux) Lowen: on  <i>Verrucaria</i>  <b>walkerorum</b> Zhurb.: on <i>Ochrolechia</i>  <b>xanthoriae</b> Lowen &amp; Diederich: on  <i>Xanthoriae</i></p>			
<p><i>Trichonectria</i></p>	<p><b>anisospora</b> (Lowen) van den Boom &amp;  Diederich: on <i>Hypogymnia</i>  <b>australis</b> Etayo: on <i>Usnea</i>  <b>cladoniicola</b> (Alstrup &amp; Svane) Alstrup: on  <i>Cladonia</i>  <b>furcatosetosa</b> Brackel: on necrosed  <i>Melanelixia, Parmelia, Physcia</i> and  <i>Candelariella</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></p>	<p>Alstrup &amp; Svane 1998  Brackel 2014  Etayo 2001  Etayo 2002a  Etayo &amp; Sancho 2008  Etayo &amp; van den Boom 2005  Sérusiaux et al. 1999  Hawksworth 1978b  Rossman et al. 1999</p>	<p><b>rubefaciens</b> (see anamorph  <i>Acremonium rhabdosporum</i>  under Anamorphic  Ascomycota)</p>	

	<p><b>pertusariae</b> Etayo &amp; van den Boom: on <i>Pertusaria</i></p> <p><b>rubefaciens</b> (Ellis &amp; Everh.) Diederich &amp; Schroers: on <i>Parmelia</i> s.lat. [anamorph: <i>Acremonium rhabdosporum</i>]</p> <p><b>setadpressa</b> Etayo: on <i>Lobaria</i></p> <p><b>usneicola</b> Etayo: on <i>Usnea</i></p>			
Ceratostomataceae				
<i>Sypastospora</i>	<b>cladoniae</b> Etayo: on <i>Cladonia convoluta</i>	Etayo 2008		
Clavicipitaceae				
<i>Neobarya</i>	<p><b>ciliaris</b> Etayo: on <i>Heterodermia</i></p> <p><b>darwiniana</b> Etayo: on <i>Nephroma antarcticum</i></p> <p><b>lichenophila</b> (Ferd. &amp; Winge) Lowen &amp; Samuels: on <i>Cladonia</i></p> <p><b>peltigerae</b> Lowen, Boqueras &amp; Gomez-Bolea: on <i>Peltigera</i></p> <p><b>usneae</b> Etayo: on <i>Usnea</i></p>	<p>Candoussau et al. 2007</p> <p>Etayo 2002a</p> <p>Etayo &amp; Sancho 2008</p>		
Nectriaceae				
<i>Fusarium</i>	<b>peltigerae</b> Westend.: on <i>Peltigera</i>	Hawksworth 1979a	<b>sp.:</b> ATCC 208869; ARS-NRRL 26803	<b>sp.</b> (ATCC 208869): nrLSU: <a href="#">AF228360</a> ; nrSSU: <a href="#">AF289654</a>
<i>Nectria</i>	<b>byssophila</b> Rossman: on <i>Pannaria</i> , <i>Peltigera</i> , <i>Pseudocyphellaria</i> and <i>Psoroma</i>	Etayo & Sancho 2008		
<i>Xenonectriella</i>	<p><b>aurantiaca</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>dirinariae</b> Etayo &amp; van den Boom: on <i>Dirinaria</i></p> <p><b>humilis</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>leptaleae</b> (J. Steiner) Rossman &amp; Lowen: on <i>Physcia</i> and <i>Physconia</i></p> <p><b>leptaleoides</b> (Etayo) Etayo: on <i>Leptogium</i></p> <p><b>lutescens</b> (Rehm) Weese: on <i>Solorina</i></p> <p><b>ornamentata</b> (D. Hawksw.) Rossman: on</p>	<p>Brackel 2014</p> <p>Etayo 2002a</p> <p>Etayo &amp; Sancho 2008</p> <p>Etayo &amp; Triebel 2010</p> <p>Etayo &amp; van den Boom 2013</p> <p>Rossman et al. 1999</p> <p>van den Boom &amp; Etayo 2014</p>		



	<p><i>Peltigera</i></p> <p><b>protopannariae</b> (Zhurb.) Brackel: on <i>Protopannaria pezizoides</i></p> <p><b>rosea</b> Etayo: on <i>Pannaria</i></p> <p><b>septemseptata</b> (Etayo) Etayo &amp; van den Boom: on <i>Melanelixia</i></p> <p><b>streimannii</b> (S. Y. Kondr., Coppins &amp; D. J. Galloway) Rossman: on <i>Lobaria</i> and <i>Sticta</i></p>			
Niessliaceae				
<i>Niesslia</i>	<p><b>cladoniicola</b> D. Hawksw. &amp; W. Gams: on <i>Cladonia</i> [anamorph: <i>Monocillium</i> sp.]</p> <p><b>echinoides</b> Etayo, Flakus &amp; Kukwa: on <i>Erioderma</i></p> <p><b>globospora</b> Etayo: on <i>Dictyonema</i></p> <p><b>kununguakii</b> Alstrup &amp; E. S. Hansen: on <i>Arthrorhaphis alpina</i></p> <p><b>lobariae</b> Etayo &amp; Diederich: on <i>Lobaria</i></p> <p><b>peltigericola</b> (D. Hawksw.) Etayo: on <i>Peltigera</i></p> <p><b>pseudocyphellariae</b> Etayo &amp; Diederich: on <i>Pseudocyphellaria</i></p> <p><b>robusta</b> Tretiach: on <i>Tephromela grumosa</i></p> <p><b>schyzospora</b> Etayo: on <i>Hypotrachyna</i></p> <p><b>stictarum</b> (Nannf. &amp; R. Sant.) R. Sant. &amp; Tretiach: on <i>Sticta</i></p> <p><b>tatjanae</b> (S. Y. Kondr.) Etayo: on <i>Pseudocyphellaria</i></p> <p><b>tetrahedrospora</b> Etayo: on <i>Dichosporidium</i></p> <p><b>yaganae</b> Etayo: on <i>Nephroma antarcticum</i></p>	<p>Alstrup &amp; Hansen 2001</p> <p>Etayo 2000</p> <p>Etayo 2002a</p> <p>Etayo &amp; Diederich 1996b</p> <p>Etayo &amp; Sancho 2008</p> <p>Etayo et al. 2013a</p> <p>Hawksworth 1975b</p> <p>Hawksworth 1979a</p> <p>Tretiach 2002</p>	<b>cladoniicola</b> : CBS 960.73	
Hypocreales incertae sedis				

<i>Illosporopsis</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>Roselliniella</i>	<p><b>africana</b> Diederich: on <i>Usnea</i></p> <p><b>atlantica</b> Matzer &amp; Hafellner: on <i>Xanthoparmelia</i>, <i>Hypotrachyna</i> and <i>Platismatia</i></p> <p><b>cladoniae</b> (Anzi) Matzer &amp; Hafellner: on <i>Cladonia</i></p> <p><b>coccocarpiae</b> (Pat.) Matzer &amp; R. Sant.: on <i>Degelia</i></p> <p><b>epiphylla</b> Matzer &amp; Hafellner: on foliicolous <i>Sporopodium</i></p> <p><b>eriodermicola</b> Matzer &amp; R. Sant.: on <i>Erioderma tomentosum</i></p> <p><b>euparmeliicola</b> Millanes &amp; D. Hawksw.: on <i>Parmelia</i> s. str.</p> <p><b>heterodeae</b> Matzer &amp; Hafellner: on <i>Heterodea muelleri</i></p> <p><b>microthelia</b> (Wallr.) Nik. Hoffm. &amp; Hafellner: on <i>Trapelia</i></p> <p><b>nephromatis</b> (Crouan) Matzer &amp; Hafellner: on <i>Nephroma</i></p> <p><b>oxyspora</b> Matzer &amp; R. Sant.: on <i>Coccocarpia</i></p> <p><b>pannariae</b> Matzer &amp; Hafellner: on <i>Protopannaria pzizoides</i></p> <p><b>papuana</b> Diederich: on <i>Usnea</i></p> <p><b>peltigericola</b> D. Hawksw. &amp; Miadl.: on <i>Peltigera</i></p> <p><b>ramirezii</b> Etayo: on <i>Lobaria</i></p>	Aptroot et al. 1997 Etayo 2002a Hawksworth & Miadlikowska 1997a Hawksworth et al. 2010 Hoffmann & Hafellner 2000 Matzer & Hafellner 1990 Zhurbenko et al. 2009		<b>atlantica</b> : nrLSU: <a href="#">GQ888763</a> <b>sp.</b> (DLH 2009a): nrLSU: <a href="#">GQ888764</a>

	<b>stereocaulorum</b> Zhurb., Kukwa & Oset: on <i>Stereocaulon</i> <b>stictae</b> Etayo: on <i>Sticta</i>			
<i>Trichothecium</i>	<i>roseum</i> (Pers. ex Fr.) Link ex Fr.: facultative lichenicolous	Hawksworth 1979a		

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	Species (lichenicolous fungi in bold; lichenicolous lichens or facultative lichenicolous fungi in italics)	Significant literature	Cultures (with accession numbers when known; <b>culture collection links</b> )	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>	Alstrup et al. 1994 Alstrup & Hawksworth 1990 Eriksson & Santesson 1986 Hawksworth 1980b Pérez-Ortega & Halici 2008 Triebel 1989 Zhurbenko & Triebel 2005		

	<p><b>salisburyi</b> D. Hawksw. &amp; Sivan.: on <i>Peltigera</i></p> <p><b>stereocaulicola</b> (Linds.) O. E. Erikss. &amp; R. Sant.: on <i>Sterocaulon</i></p> <p><b>supersparsa</b> (Zopf) Triebel: on <i>Porpidia</i></p>			
<i>Rhagadostoma</i>	<p><b>boleae</b> Nav.-Ros. &amp; Hladun: on <i>Lecania</i></p> <p><b>brevisporum</b> (Nav.-Ros. &amp; Hladun) Nav.-Ros.: on <i>Peltigera</i> and <i>Solorina</i></p> <p><b>collematum</b> Etayo &amp; Nav.-Ros.: on</p> <p><b>corrugatum</b> Körb.: on</p> <p><b>lichenicola</b> (De Not.) Keissl.: on</p> <p><b>pannariae</b> Etayo: on <i>Pannaria</i></p> <p><b>rugosum</b> Nav.-Ros. &amp; Hladun: on <i>Verrucaria nigrescens</i></p> <p><b>verrucariarum</b> Nav.-Ros. &amp; Hladun: on <i>Verrucaria</i></p>	<p>Etayo &amp; Sancho 2008</p> <p>Navarro-Rosinés et al. 1999</p> <p>Navarro-Rosinés &amp; Hladun 1994</p>		
<i>Rhagadostomella</i>	<b>gregaria</b> Etayo: on <i>Sticta</i>	Etayo 2002a		
Sordariales 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>	<p><b>gelidaria</b> (Mudd) Matzer: on <i>Placopsis gelida</i></p> <p><b>groedensis</b> (Zopf) Matzer &amp; Hafellner: on <i>Pertusaria lactea</i></p> <p><b>palicei</b> Etayo: on <i>Placopsis gelida</i></p> <p><b>phaeophysciae</b> S. Y. Kondr., L. Lökös &amp; J.-S. Hur: on <i>Phaeophyscia</i></p> <p><b>tartaricola</b> (Leight.) Matzer: on</p>	<p>Alstrup et al. 1994</p> <p>Etayo 2003</p> <p>Kondratyuk et al. 2013</p> <p>Matzer 1993</p> <p>Matzer &amp; Hafellner 1990</p>		

	<p><i>Ochrolechia tartarea</i>, <i>Pertusaria hemisphaerica</i> and <i>P. pupillaris</i>  <b>tropica</b> Matzer &amp; R. Sant.: on ?<i>Ochrolechia ventosa</i> (Rostr.) Alstrup: on <i>Placopsis gelida</i></p>		
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## Home

	Species (lichenicolous fungi in bold; lichenicolous lichens or facultative lichenicolous fungi in italics)	Significant literature	Cultures (with accession numbers when known; <b>culture collection links</b> )	Sequences (with accession numbers)
<b>ASCOMYCOTA</b>				
<b>Families incertae sedis</b>				
Arthrorhaphidaceae				
<i>Arthrorhaphis</i>	<p><b>aeruginosa</b> R. Sant. &amp; Tønsh.: 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><i>citrinella</i> (Ach.) Poelt: facultative juvenile parasite on <i>Baeomyces rufus</i>, later or from the beginning an independent lichen</p> <p><i>grisea</i> 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; Tønsh.: on <i>Melanohalea olivacea</i></p> <p><i>vaccillans</i> Th. Fr.: juvenile parasite on <i>Baeomyces</i>, later an independent lichen</p>	<p>Kocourková &amp; van den Boom 2005  Obermayer 1994  Santesson &amp; Tønshberg 1994</p>		<p><i>citrinella</i> (Ihlen 1372): nrLSU: <a href="#">AY853357</a>; mtSSU: <a href="#">AY853309</a></p> <p><i>citrinella</i> (Nordin 4905): nrLSU: <a href="#">AY853356</a>; <i>RPB1</i>: <a href="#">DQ915592</a>; mtSSU: <a href="#">AY853308</a></p> <p><i>citrinella</i> (Lutzoni 97.06.29 ST2.1): nrLSU: <a href="#">AF279376</a>; nrSSU: <a href="#">AF279375</a></p>
Dactylosporaceae				

*Dactylospora*

**acarospora** (H. Magn.) Hafellner: on  
*Acarospora*

**aeruginosa** Hohlén & Ihlen: on various  
lichens

**allantoidea** Alstrup & D. Hawksw.: on  
*Xanthoparmelia pulla*

**amygdalariae** Triebel: on *Amygdalaria*

**aspiciliicola** Alstrup & D. Hawksw.: on  
*Aspicilia*

**athallina** (Müll. Arg.) Hafellner: on  
*Baeomyces rufus*

**attendenda** (Nyl.) Arnold: on  
*Amygdalaria*, *Icmadophila*, *Pilophorus*  
and *Porpidia*

**australis** Triebel & Hertel: on *Lecidea*,  
*Paraporpidia*, *Poeltiaria*, *Poeltidea*,  
*Porpidia*, *Rimularia* and *Tremolecia*

**borealis** Hohlén & 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*

Alstrup et al. 1994  
Alstrup & Hawksworth 1990  
Alstrup & Olech 1993  
Clauzade et al. 1989  
Etayo 1991  
Etayo 2010c  
Etayo & Sancho 2008  
Fryday & Coppins 2012  
Hafellner 1979  
Hafellner 1985b  
Hafellner & Mayrhofer 2007  
Hafellner et al. 2002  
Hawksworth 2003  
Ihlen et al. 2004  
Kondratyuk & Galloway 1995c  
Olech & Alstrup 1996  
Sérusiaux & Wessels 1984  
Triebel 1989

**lobariella**: CBS 300.80

**parasitica**: CBS 101579

**parasitica**: Culture obtained  
by Crittenden et al. (1995)

**lobariella** (AFTOL-ID 2137,  
CBS 300.80): nrSSU:  
[FJ176837](#); nrLSU: [FJ176891](#)

**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 *Megalaria pulverea*  
**ophthalmizae** Coppins ined.: probably on  
*Pertusaria ophthalmiza*  
**orygmaea** (Nyl.) S. Y. Kondrat. & D. J.  
Galloway: on *Pseudocyphellaria*  
*berberina*  
**parasitica** (Flörke) Zopf: on *Ochrolechia*  
and *Pertusaria*  
**parellaria** (Nyl.) Arnold: on *Ochrolechia*  
*parella*  
**pertusariicola** (Tuck.) Hafellner: on  
saxicolous *Pertusaria*  
**pleiosperma** Triebel: on *Lecanora*  
*caesiorubella*  
**polyspora** Triebel: on *Protoparmelia*  
**porphyrea** Hafellner & Kalb: on *Bacidia*,  
*Brigantiaea* and *Phyllopsora*  
**protohallina** (Anzi) Hafellner: on  
*Fuscopannaria* and *Parmeliella*  
**purpurascens** Triebel: on *Amygdalaria*,  
*Pilophorus* and *Porpidia*  
*pyrenaica* Etayo: over bryophytes, perhaps  
associated with *Mycobilimbia pilularis*  
**rhyparizae** Arnold: on *Bryodina rhipariza*  
**rimulicola** (Müll. Arg.) Hafellner: on  
*Lecanora* and ?*Pertusaria*  
**rinodinicola** Alstrup & D. Hawksw.: on

	<p><i>Rinodina turfacea</i>  <b>rostrupii</b> Alstrup: on <i>Pertusaria dactylina</i>  <b>saxatilis</b> (Schaer.) Hafellner: on  <i>Ochrolechia</i> and <i>Pertusaria</i>  <b>saxatilis</b> var. <b>laureri</b> Hafellner: on  <i>Pertusaria</i>  <b>suburceolata</b> Coppins &amp; Fryday: on a  whitish-yellowish muscicolous crustose  lichen  <b>tegularum</b> (Arnold) Hafellner: on  <i>Caloplaca</i>  <b>urecolata</b> (Th. Fr.) Arnold: on  <i>Protothelenella sphinctrinoides</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>		<p><b>arenarium</b> (Wedin 8/5 2011):  ITS: <a href="#">JX000107</a>; nrLSU:  <a href="#">JX000091</a>; <i>RPBI</i>: <a href="#">JX000140</a>;  mtSSU: <a href="#">JX000127</a>  <b>disseminatum</b> (Prieto 3053):  nrLSU: <a href="#">JX000092</a>; <i>MCM7</i>:  <a href="#">JX000171</a>  <b>disseminatum</b> (Wedin 6353):  nrSSU: <a href="#">JX000071</a>; <i>RPBI</i>:  <a href="#">JX000146</a>; mtSSU: <a href="#">JX000128</a></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>	<b>pseudocyphellariae</b> Etayo: on <i>Pseudocyphellaria</i> <b>santessonii</b> H. Mayrh.: on <i>Cladonia</i>	Etayo & Sancho 2008 Mayrhofer 1987		
Strigulaceae				
<i>Strigula</i>	<b>dichosporidii</b> Etayo: on <i>Dichosporidium</i>	Etayo 2002		
Thelocarpaceae				
<i>Thelocarpon</i>	<b>cyaneum</b> Olech & Alstrup: on ' <i>Polyblastia</i> cf. <i>gothica</i> ' <i>epibolum</i> Nyl.: facultative lichenicolous on <i>Baeomyces</i> , <i>Lichenomphalia hudsoniana</i> , <i>Peltigera</i> and <i>Solorina</i> <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> <i>lichenicola</i> (Fuckel) Poelt & Hafellner: facultative lichenicolous on <i>Baeomyces</i> , <i>Peltigera</i> and <i>Solorina</i>	Olech & Alstrup 1990 Rambold & Triebel 1992		<i>lichenicola</i> (THLI1450): nrLSU: JN206661; mtSSU: JN206653
Xanthopyreniaceae				
<i>Collemopsidium</i>	<b>cephalodiorum</b> (Triebel & Grube) Grube: on <i>Pilophorus cephalodiorum</i>	Grube 2005		
<i>Didymellopsis</i>	<b>collematum</b> (J. Steiner) Grube & Hafellner: on <i>Collema</i> <b>latitans</b> (Nyl.) Clem. & Shear: on <i>Gonohymenia</i> and <i>Lempholemma</i> <b>perigena</b> (Nyl.) Grube & Hafellner: on <i>Placidium squamulosum</i> <b>pulposi</b> (Zopf) Grube & Hafellner: on <i>Collema</i> and <i>Leptogium</i>	Grube & Hafellner 1990		
<i>Zwackhiomyces</i>	<b>argentina</b> (Räsänen) D. Hawksw. & V. Atienza: on <i>Acarospora</i> <b>aspiciliae</b> Halici & Candan: on <i>Aspicilia</i>	Alstrup 1993a Alstrup & Olech 1993 Aptroot et al. 1997		

<p><b>berengerianus</b> (Arnold) Grube &amp; Triebel: on <i>Lecidea berengeriana</i></p> <p><b>calcaria</b>e (Flagey) Hafellner &amp; Nik. Hoffm.: on <i>Aspicilia</i></p> <p><b>calcisedus</b> Cl. Roux: on <i>Verrucariaceae</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 <i>Cladonia</i></p> <p><b>coepulonius</b> (Norman) Grube &amp; R. Sant.: on <i>Caloplaca</i> and <i>Xanthoria elegans</i></p> <p><b>diederichii</b> D. Hawksw. &amp; Iturr.: on <i>Cladonia</i></p> <p><b>dispersus</b> (Körb.) Triebel &amp; Grube: on <i>Protoblastenia rupestris</i></p> <p><b>echinulatus</b> Brackel: on <i>Physconia</i></p> <p><b>euplocinus</b> Hafellner, Grube &amp; Egan: on <i>Speerschneidera euploca</i></p> <p><b>heppiae</b> van den Boom: on <i>Heppia</i> <i>arenacea</i></p> <p><b>inconspicuus</b> Grube &amp; Hafellner: on <i>Lecanora dispersa</i></p> <p><b>kantvilasii</b> S. Y. Kondr.: on <i>Parmotrema</i></p> <p><b>kiskianus</b> D. Hawksw. &amp; Miadl.: on <i>Peltigera</i></p> <p><b>lacustris</b> (Arnold) Orange: on <i>Ionaspis</i> <i>lacustris</i></p> <p><b>lecanorae</b> (Stein) Nik. Hoffm. &amp; Hafellner: on <i>Lecanora</i></p> <p><b>lithoiceae</b> (B. de Lesd.) Hafellner &amp; V. John: on <i>Verrucaria</i></p> <p><b>macrosporus</b> Alstrup &amp; Olech: on <i>Protopannaria</i></p>	<p>Etayo 2010b Grube &amp; Hafellner 1990 Harris 1995 Hawksworth &amp; Atienza 1994 Hawksworth &amp; Miadlikowska 1997a Hoffmann &amp; Hafellner 2000 Kocakaya et al. 2011 Kondratyuk 1996b Miadlikowska &amp; Alstrup 1995 Orange 2002 Roux 2014 van den Boom 2010 van den Boom &amp; Etayo 2014</p>		
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	<p><b>martinatianus</b> (Arnold) Triebel &amp; Grube: on <i>Porpidia</i></p> <p><b>melanohaleae</b> Etayo &amp; van den Boom: on <i>Melanohalea exasperata</i></p> <p><b>namibiensis</b> Diederich &amp; M. Schultz: on <i>Psorotichia</i></p> <p><b>peltigerae</b> Miadl. &amp; Alstrup: on <i>Peltigera</i></p> <p><b>physciicola</b> Alstrup: on <i>Physcia caesia</i></p> <p><b>rolfii</b> (Etayo) Etayo: on <i>Candelina</i></p> <p><b>sipmanii</b> Diederich &amp; Zhurb.: on <i>Phaeorrhiza sareptana</i></p> <p><b>socialis</b> (Körb.) Cl. Roux: on <i>Clauzadea</i>, perhaps also on <i>Bacidia bagliettoana</i></p> <p><b>solenopsorae</b> van den Boom: on <i>Solenopsora holophaea</i></p> <p><b>sphinctriniformis</b> Grube &amp; Hafellner: on <i>Romjularia lurida</i></p> <p><b>sphinctrinoides</b> (Zwackh) Grube &amp; Hafellner: on <i>Lecanora campestris</i></p> <p><b>turcicus</b> Kocakaya, Halıcı &amp; Aksoy: on <i>Physcia magnussonii</i></p>			
<b>Genera incertae sedis</b>				
<i>Epigloea</i>	<b>urosperma</b> Döbbeler: on <i>Placynthiella</i>	Döbbeler 1994		
<i>Gyrophthorus</i>	<p><b>crustulosae</b> (Creveld) Hafellner &amp; Sancho: on <i>Umbilicaria</i></p> <p><b>gracilis</b> Nik. Hoffm. &amp; Hafellner: on <i>Umbilicaria</i></p> <p><b>perforans</b> Hafellner &amp; Sancho: on <i>Umbilicaria</i></p>	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 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 ridlei</i>	Henssen 1964		
<i>Rhynchomeliola</i>	<b>lichenicola</b> Henssen & Kantvilas: on <i>Waweia</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>cladoniicola</b> Alstrup & Olech: on <i>Cladonia</i>	Alstrup & Olech 1993		
<i>Viridiannula</i>	<b>pertusariae</b> Etayo: on <i>Pertusaria pertusa</i>	Etayo 2002b		
<i>Zwackhiomacromyces</i>	<b>constrictocarpus</b> Etayo & van den Boom: on <i>Megalospora verrucosa</i>	van den Boom & Etayo 2014		

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	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <b>culture collection links</b> )	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>	[see under Hypocreales]			
<i>Ameroconium</i>	<b>cladoniae</b> U. Braun & Zhurb.: on <i>Cladonia</i>	Zhurbenko & Braun 2013		
<i>Ampullifera</i>	[see under <i>Teratoschaeta</i> ]			
<i>Arborillus</i>	<b>lilimoniae</b> Munt.-Cvet. & Gómez-Bolea: on	Muntañola-Cvetkovic & Gómez-		

	<i>Diploschistes</i>	Bolea 1998		
<i>Ascochyta</i>	[see under Pleosporales]			
<i>Asteroglobulus</i>	<b>giselae</b> Brackel: on <i>Ramalina farinacea</i>	Brackel 2011a		
<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>	[see under Pleosporales]			
<i>Briancoppinsia</i>	[see under Arthoniales]			
<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>Cecidiomyces</i>	<b>santessonii</b> U. Braun & Zhurb.: on <i>Stereocaulon</i>	Zhurbenko & Braun 2012		
<i>Cephalosporiopsis</i>	<b>epiparasitaster</b> Alstrup: on <i>Chaenothecopsis parasitaster</i>	Alstrup 1997		
<i>Chalara</i>	[see under Dothideomycetes incertae sedis]			
<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</i> <i>diacapsis</i> <b>staurospora</b> Diederich, van den Boom & Aptroot: on <i>Cladonia</i>	Diederich et al. 2002 ('2001') Etayo 2010c		
<i>Cladophialophora</i>	[see under Chaetothyriales]			
<i>Cladosporium</i>	[see under Capnodiales]			
<i>Clauzadeomyces</i>	<b>verrucosus</b> Diederich: on <i>Placopsis</i>	Diederich 1994		
<i>Codonmyces</i>	<b>lecanorae</b> Calat. & Etayo: on <i>Lecanora</i> <i>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 <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>	Etayo 2010a Etayo & Diederich 1995 Gierl & Kalb 1993 Hawksworth 1976 Hawksworth 1981 Knoph 2004 Punithalingam 2003 Sutton 1980	<b>ciliata</b> : CBS 111093	
<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>Dictyophrynella</i>	<b>bignoniacearum</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>	<i>strigosum</i> (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>	[see under Helotiales]			
<i>Ellisemia</i>	[see under Pleosporales]			
<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 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>	Hawksworth 1981 Ihlen & Wedin 2005		
<i>Epicoccum</i>	[see under Pleosporales]			
<i>Epithamnolia</i>	<b>karatyginii</b> Zhurb.: on <i>Thamnolia</i>	Zhurbenko 2012		
<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>Fensteroconidia</i>	<b>caloplacae</b> Calat. & Etayo: on <i>Caloplaca</i>	Calatayud & Etayo 1999b		
<i>Fusarium</i>	[see under Hypocreales]			
<i>Fusicladium</i>	[see under Dothideomycetes incertae sedis]			
<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 algicolous	Alstrup & Hawksworth 1990 Motiejūnaitė & Alstrup 2006		
<i>Hainesia</i>	<b>aeruginascens</b> Brackel: on <i>Platismatia</i> and <i>Hypogymnia</i> <b>brevicladoniae</b> Diederich & van den Boom: on <i>Cladonia</i> <b>bryonorae</b> Zhurb.: on <i>Bryonora</i>	Brackel 2009 Brackel 2014 Diederich & van den Boom 2013 Etayo & Diederich 1996a Zhurbenko 2013b Zhurbenko & Brackel 2013		

	<p><b>lecanorae</b> Brackel: on <i>Lecanora</i></p> <p><b>longicladoniae</b> Diederich &amp; van den Boom: on <i>Cladonia</i></p> <p><b>peltigerae</b> Zhurb.: on <i>Peltigera</i></p> <p><b>pertusariae</b> Etayo &amp; Diederich: on <i>Pertusaria</i></p> <p><b>xanthoriae</b> Brackel: on <i>Xanthoria</i></p>			
<i>Hansfordiellopsis</i>	[see under <i>Koordersiella</i> (Dothideomycetes incertae sedis)]			
<i>Hawksworthiana</i>	<b>peltigericola</b> (D. Hawksw.) U. Braun: on <i>Peltigera</i>	Braun 1988 Hawksworth 1980a		
<i>Helicobolomyces</i>	[see under <i>Arthonia cinnabarinula</i> ]			
<i>Hobsoniopsis</i>	[see under Dothideomycetes incertae sedis]			
<i>Illosporium</i>	[see under <i>Pronectria</i> (Hypocreales)]			
<i>Illosporiopsis</i>	[see under Hypocreales]			
<i>Intralichen</i>	<p><b>baccisporus</b> D. Hawksw. &amp; M. S. Cole: on <i>Caloplaca</i> and other lichens</p> <p><b>christiansenii</b> (D. Hawksw.) D. Hawksw. &amp; M. S. Cole: on <i>Candelariella</i> and other lichens</p> <p><b>lichenicola</b> (M. S. Christ. &amp; D. Hawksw.) D. Hawksw. &amp; M. S. Cole: on <i>Candelariella</i> and other lichens</p> <p><b>lichenum</b> (Diederich) D: Hawksw. &amp; M. S. Cole: on various lichens</p>	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>
<i>Isthmoconidium</i>	<b>bacidiicola</b> Etayo & F. Berger: on <i>Bacidia</i>	Etayo & Berger 2013		
<i>Kalchbrenneriella</i>	<b>cyanescens</b> (Kalchbr.) Diederich & M. S. Christ.: on <i>Usnea</i>	Diederich 2002		
<i>Karsteniomyces</i>	[see under <i>Scutula</i> (Lecanorales)]			
<i>Keissleriomyces</i>	<b>sandstedeanus</b> (Keissler) D. Hawksw.: on <i>Cladonia furcata</i>	Hawksworth 1981		
<i>Laeviomyces</i>	<b>pertusariicola</b> (Nyl.) Diederich: on	Hawksworth 1979a Zhurbenko & Otte 2012		



	<i>Pertusaria</i>			
<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>canariensis</b> Etayo & Pérez-Vargas: on crustose saxicolous lichens <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 Pérez-Vargas et al. 2013		
<i>Libertiella</i>	[see under <i>Scutula</i> (Lecanorales)]			
<i>Lichenobactridium</i>	<b>pertusariae</b> Diederich & Etayo: on <i>Pertusaria pertusa</i>	Etayo & Diederich 1995		
<i>Lichenocodium</i>	[see under Lichenocodiales]			
<i>Lichenodiplis</i>	<b>anomala</b> [as anomalus] Etayo & Pérez-Vargas: on <i>Ochrolechia</i> <b>crespoae</b> Pérez-Ortega & V. Atienza: on <i>Cyphelium notarissii</i> <b>dendrographae</b> Diederich & van den Boom: on <i>Dendrographa</i> <b>fallaciosa</b> (Hafellner & Kalb) Diederich: on <i>Buellia</i> and <i>Orcularia</i> <b>hawksworthii</b> F. Berger & Diederich: on <i>Pertusaria</i> <b>lecanorae</b> (Vouaux) Dyko & D. Hawksw.: on <i>Caloplaca</i> , <i>Lecanora</i> and other crustose lichens <b>lecanoricola</b> (M. S. Cole & D. Hawksw.) Diederich: on <i>Lecanora</i> <b>lichenicola</b> Dyko & D. Hawksw.: on <i>Rinodina</i> <b>opegraphae</b> (D. Hawksw.) Diederich: on <i>Opegrapha</i>	Berger & Diederich 1996 Berger & LaGreca 2014 Diederich 2003 Cole & Hawksworth 2001 Hawksworth 1981 Hawksworth & Dyko 1979 Kalb 1990 Knudsen & Kocourková 2009 Kondratyuk 1996a Pérez-Vargas et al. 2013		

	<b>poeltii</b> S. Y. Kondr. & D. Hawksw.: on <i>Xanthoria parietina</i> <b>rinodinicola</b> Kocourk. & K. Knudsen: on <i>Rinodina</i>			
<i>Lichenodiplisiella</i>	<b>makarevichiae</b> S. Y. Kondr. & Kudratov: on <i>Teloschistes brevior</i>	Kondratyuk et al. 2002		
<i>Lichenohendersonia</i>	<b>squamarinae</b> Calat. & Etayo: on <i>Squamarina</i> <b>uniseptata</b> Etayo & Calatayud: on <i>Parmelina</i> <b>varians</b> Calat. & Etayo: on <i>Rhizoplaca</i>	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> <b>jurgae</b> Kukwa & Flakus: on <i>Lecanora</i>	Flakus & Kukwa 2012 Hawksworth 1981		
<i>Microsphaeropsis</i>	[see under Pleosporales]			
<i>Milospium</i>	<b>deslooveri</b> Diederich & Sérus.: probably not lichenicolous, but lichenized <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> <b>planorbis</b> Aptroot & Sipman: probably not lichenicolous, but lichenized	Aptroot & Sipman 2001 Etayo & Diederich 1996a Hawksworth 1975a 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>	Atienza 2002 Atienza & Hawksworth 1994		

	<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 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>	[see under <i>Niesslia</i> ]	Hawksworth 1979		
<i>Monodictys</i>	[see under Dothideomycetes incertae sedis]			
<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 horizontalis</i>	Punithalingam & Spooner 1997		
<i>Phaeosporobolus</i>	[see under Lichenostigmatales]			
<i>Phoma</i>	<b>aggregata</b> Calat. & Etayo: on <i>Diploschistes ocellatus</i> <b>caloplacae</b> D. Hawksw.: on <i>Caloplaca cerina</i> <b>cladoniicola</b> Diederich, Kocourk. & Etayo: on <i>Cladonia</i> , <i>Flavoparmelia</i> , <i>Parmelina</i> , <i>Ramalina</i> and <i>Squamarina</i> <b>denigricans</b> Hafellner: on <i>Lecanora epibryon</i> <b>dubia</b> (Linds.) Sacc. & A. Trotter: on <i>Usnea</i> <b>epiphyscia</b> Vouaux: on <i>Phaeophyscia</i> <b>everniae</b> D. Hawksw.: on <i>Evernia prunastri</i>	Alstrup 1997 Brackel 2008 Brackel 2011a Calatayud & Etayo 2001 Diederich 1986 Diederich et al. 2007 Earland-Bennett et al. 2006 Etayo & Diederich 1995 Etayo & Osorio (2004) Etayo & Sancho 2008 Hafellner 1994a Hafellner & Wieser 2000 Halici et al. 2014 Hawksworth 1980b Hawksworth 1981	<b>caloplacae</b> : CBS 129140 <b>caloplacae</b> : CBS 129338 <b>cladoniicola</b> : CBS 128026 <b>cladoniicola</b> : CBS 128027 <b>cladoniicola</b> : CBS 131731 <b>cladoniicola</b> : CBS 131732 <b>cladoniicola</b> : CBS 131733 <b>cladoniicola</b> : CBS 128023 <b>cladoniicola</b> : CBS 128025 <b>ficuzzae</b> : CBS 128019 <b>foliaceiphila</b> : CBS 129141 <b>foliaceiphila</b> : CBS 131728 <b>foliaceiphila</b> : CBS 131730	<b>caloplacae</b> (CBS 129140): ITS: JQ238635; nrLSU: JQ238637; mtSSU: JQ238636 <b>caloplacae</b> (CBS 129338): ITS: JQ238641; nrLSU: JQ238643; mtSSU: JQ238642 <b>cladoniicola</b> (CBS 128026): ITS: JQ238626; nrLSU: JQ238628; mtSSU: JQ238627 <b>cladoniicola</b> (CBS 128027):

**ficuzzae** Brackel: on *Ramalina*  
**fistulata** Etayo & Osorio: on *Concamerella fistulata*  
**foliaceiphila** Diederich, Kocourk. & Etayo: on *Cladonia* and *Parmelia*  
**fuliginosa** M. S. Cole & D. Hawksw.: on *Caloplaca trachyphylla*  
**grumantiana** Zhurb. & Diederich: on *Cladonia*  
**heterodermiae** S. Y. Kondr., L. Lökös & J.-S. Hur: on *Heterodermia*  
**lecanorina** Diederich: on *Lecanora expallens*  
**lobariae** Diederich & Etayo: on *Lobaria pulmonaria*  
[*lobariicola* Alstrup: on *Lobaria scrobiculata* is probably an anamorph of *Catillaria lobariicola*]  
**maculiformans** Ihlen: on *Dibaeis baeomyces*  
**melanelixiae** Brackel: on *Melanelixia glabra*  
**melanohaleicola** D. Hawksw. & Earl.-Benn.: on *Melanohalea exasperata*  
**peltigerae** (P. Karst.) D. Hawksw.: on *Peltigera*  
**physciicola** Keissl.: on *Physcia* and *Physconia*  
**pisutii** S. Y. Kondr., A. Lackovičová, E. Lisická & A. Guttová: on *Xanthomendoza ulophyllodes*  
**psoromatis** Zhurb. & U. Braun: on *Psoroma*  
**receptii** Halici & Candan: on *Caloplaca* gr.

Hawksworth 1994  
Hawksworth & Cole 2004  
Ihlen 1998  
Kondratyuk et al. 2013  
Lawrey et al. 2012  
Martínez & Hafellner 1998  
Oksner 2010  
Zhurbenko 2012  
Zhurbenko & Braun 2013

**foliaceiphila**: CBS 131729  
**xanthomendozae**: CBS  
129666 TYPE CULTURE

ITS: JQ238629; nrLSU:  
JQ238631; mtSSU:  
JQ238630  
**cladoniicola** (FL5): ITS:  
JQ318014; nrLSU:  
JQ318016; mtSSU:  
JQ318015  
**cladoniicola** (FL10): CBS  
131731): ITS: JQ318017;  
nrLSU: JQ318019; mtSSU:  
JQ318018  
**cladoniicola** (FL11): CBS  
131732): ITS: JQ318020;  
nrLSU: JQ318022; mtSSU:  
JQ318021  
**cladoniicola** (FL13): CBS  
131733): ITS: JQ318023;  
nrLSU: JQ318025; mtSSU:  
JQ318024  
**cladoniicola** (FL14): ITS:  
JQ318026; nrLSU:  
JQ318028; mtSSU:  
JQ318027  
**cladoniicola** (CBS 128023):  
ITS: JQ238620; nrLSU:  
JQ238622; mtSSU:  
JQ238621  
**cladoniicola** (CBS 128025):  
ITS: JQ238623; nrLSU:  
JQ238625; mtSSU:  
JQ238624  
**ficuzzae** (CBS 128019): ITS:  
JQ238614; nrLSU:  
JQ238616; mtSSU:  
JQ238615  
**foliaceiphila** (CBS 129141):

	<p><i>cerina</i>  <b>rozziana</b> Etayo: on <i>Pseudocyphellaria</i>  <b>thamnohae</b> Zhurb. <i>ad int.</i>: on <i>Thamnoha</i>  <b>xanthomendozae</b> Diederich &amp; Freebury:  on <i>Xanthomendoza</i></p>			<p>ITS: JQ238638; nrLSU:  JQ238640; mtSSU:  JQ238639  <b>foliaceiphila</b> (FL1; CBS  131728): ITS: JQ318002;  nrLSU: JQ318004; mtSSU:  JQ318003  <b>foliaceiphila</b> (FL2; CBS  131730): ITS: JQ318005;  nrLSU: JQ318007; mtSSU:  JQ318006  <b>foliaceiphila</b> (FL3; CBS  131729): ITS: JQ318008;  nrLSU: JQ318010; mtSSU:  JQ318009  <b>foliaceiphila</b> (FL12): ITS:  JQ318011; nrLSU:  JQ318013; mtSSU:  JQ318012  <b>xanthomendozae</b> (CBS  129666 TYPE CULTURE):  ITS: JQ238632; nrLSU:  JQ238634; mtSSU:  JQ238633</p>
<i>Phyllosticta</i> s. lat.	<b>galligena</b> F. Moreau: on <i>Parmotrema</i>	Moreau 1951		
<i>Psammia</i>	<p><b>inflata</b> Earl.-Benn. &amp; D. Hawksw.: on  <i>Lepraria</i> and corticolous algae  <b>simplex</b> Earl.-Benn. &amp; D. Hawksw.: on  various corticolous lichens and algae  <b>stipitata</b> D. Hawksw.: on various  corticolous lichens and algae</p>	<p>Earland-Bennett &amp; Hawksworth  1999a  Hawksworth 1979a</p>		
<i>Pseudocercospora</i>	[see under Capnodiales]			
<i>Pseudorobillarda</i>	[see under Dothideomycetes incertae sedis]			
<i>Pseudoseptoria</i>	[see under Dothideales]			

<i>Pseudospiropes</i>	<i>longipilus</i> (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>	[see under Pleosporales]			
<i>Pyrenochaetopsis</i>	[see under Pleosporales]			
<i>Ramichloridium</i>	[see under Capnodiales]			
<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>	[see under Dothideomycetes incertae sedis]			
<i>Sclerococcum</i>	<b>acarosporae</b> S. Y. Kondr.: on <i>Acarospora</i> <b>areolatum</b> Etayo: probably on <i>Xylographa</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>leuckertii</b> Diederich & P. Scholz: on <i>Buellia aethalea</i> <b>montagnei</b> Hafellner: on <i>Lecanora rupicola</i> <b>serusiauxii</b> Boqueras & Diederich: on <i>Parmelina</i>	Alstrup 1993a Berger 2000 Boqueras & Diederich 1993 Diederich 1990 Diederich & Scholz 1995 Diederich et al. 2013 Etayo 1995b Etayo & Calatayud 1998 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)	<b>sphaerale</b> (Diederich 17279): nrLSU: <a href="#">JX081672</a> <b>sphaerale</b> (Diederich 17283): nrLSU: <a href="#">JX081673</a> <b>sphaerale</b> (Ertz 17425): nrLSU: <a href="#">JX081674</a>

	<p><b>simplex</b> D. Hawksw.: on corticolous <i>Pertusaria</i></p> <p><b>sphaerale</b> (Ach.) Fr.: on saxicolous <i>Pertusaria</i> [mainly <i>P. corallina</i>]</p> <p><b>tephromelarum</b> Etayo &amp; Calat.: on <i>Tephromela</i></p> <p><b>verrucisporum</b> Alstrup: on <i>Aspicilia</i></p>			
<i>Sessiliospora</i>	<b>bicolora</b> D. Hawksw.: foliicolous lichens	Hawksworth 1979a		
<i>Sphaeromma</i>	[see under <i>Keratospaera</i> (Dothideomycetes incertae sedis)]			
<i>Spilodochium</i>	[see under Venturiales]			
<i>Sporhaplus</i>	[see under <i>Keratospaera</i> (Dothideomycetes incertae sedis)]			
<i>Sporidesmiella</i>	<b>lichenophila</b> U. Braun & Heuchert: on <i>Ramalina stenospora</i>	Braun & Heuchert 2010		
<i>Sporidesmium</i>	[see under Dothideomycetes incertae sedis]			
<i>Stromatopogon</i>	[see under Dothideomycetes incertae sedis]			
<i>Stygiomyces</i>	<b>galliformis</b> Coppins & S. Y. Kondr.: on <i>Pseudocyphellaria</i>	Coppins & Kondratyuk 1995		
<i>Subhysteropycnis</i>	[see under <i>Arthonia</i> ]	Wedin & Hafellner 1998		
<i>Taeniolella</i> s. lat.	<p><b>atricerebrina</b> Hafellner: on <i>Tephromela</i></p> <p><b>beschiana</b> Diederich: on <i>Cladonia</i></p> <p><b>breviuscula</b> (Berk. &amp; M. A. Curtis) S. Hughes: facultative lichenicolous</p> <p><b>caespitosa</b> M. S. Cole &amp; D. Hawksw.: on <i>Pertusaria</i></p> <p><b>christiansenii</b> Alstrup &amp; D. Hawksw.: on <i>Stereocaulon</i></p> <p><b>chrysothricis</b> Diederich: on <i>Chrysothrix</i> <i>candelaris</i></p> <p><b>cladinicola</b> Alstrup: on <i>Cladonia</i> subgen. <i>Cladina</i></p>	<p>Alstrup 1993b</p> <p>Alstrup &amp; Hansen 2001</p> <p>Alstrup &amp; Hawksworth 1990</p> <p>Cole &amp; Hawksworth 2001</p> <p>Diederich 1990</p> <p>Diederich 1992b</p> <p>Diederich &amp; Zhurbenko 1997</p> <p>Diederich &amp; Zhurbenko 2001</p> <p>Etayo 2010b</p> <p>Etayo &amp; Calatayud 2005</p> <p>Etayo &amp; Sancho 2008</p> <p>Hafellner 1998b</p> <p>Hafellner 2007</p> <p>Hawksworth 1979a</p> <p>Zhurbenko &amp; Alstrup 2004</p>		

	<p><b>delicata</b> M. S. Christ. &amp; D. Hawksw.: on various lichens</p> <p><b>diederichiana</b> Etayo &amp; Calat.: on <i>Placopsis</i></p> <p><b>friesii</b> (Hepp) Hafellner: on <i>Strigula stigmatella</i></p> <p><b>ionaspisicola</b> Alstrup &amp; E. S. Hansen: on <i>Ionaspis odora</i></p> <p><b>pertusariicola</b> D. Hawksw. &amp; H. Mayrh.: on <i>Pertusaria</i> and possibly other lichens</p> <p><b>phaeophysciae</b> D. Hawksw.: on <i>Phaeophyscia orbicularis</i>, possibly also on <i>Physcia</i> and <i>Physconia</i></p> <p><b>pseudocyphellariae</b> Etayo: on <i>Pseudocyphellaria</i></p> <p><b>punctata</b> M. S. Christ. &amp; D. Hawksw.: on <i>Graphis scripta</i></p> <p><b>rolfii</b> Diederich &amp; Zhurb.: on <i>Cetraria</i> and <i>Cetrariella</i></p> <p><b>santessonii</b> Etayo &amp; Heuchert: on <i>Roccellina cerebriformis</i></p> <p><b>serusiauxii</b> Diederich: on <i>Schismatomma decolorans</i> and sterile crustose lichens with <i>Trentepohlia</i></p> <p><b>strictae</b> Alstrup: on <i>Cladonia stricta</i></p> <p><b>trapeliopseos</b> Diederich: on <i>Trapeliopsis</i></p> <p><b>verrucosa</b> M. S. Christ. &amp; D. Hawksw.: on <i>Arthonia pruinata</i></p>			
<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	Hawksworth 1979a		



	<b>lichenicola</b> D. Hawksw.: on foliicolous lichens			
<i>Trichoconis</i>	<b>lichenicola</b> D. Hawksw.: on <i>Peltigera collina</i> <b>physciicola</b> Brackel: on <i>Physcia</i>	Brackel 2014 Hawksworth 1980b		
<i>Trichothecium</i>	[see under Hypocreales]			
<i>Trimmatostroma</i> s. lat.	<b>cetrariae</b> Brackel: on <i>Cetraria islandica</i> <b>dendrographae</b> Diederich, Ertz, U. Braun & Heuchert: on <i>Dendrographa</i> <b>hierrense</b> Diederich & Ertz: on <i>Arthonia endlicheri</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 <b>umbilicariicola</b> Heuchert & U. Braun: on <i>Umbilicaria</i> <b>varicellariae</b> Heuchert & U. Braun: on <i>Varicellaria rhodocarpa</i>	Diederich et al. 2010 Heuchert & Braun 2014 Zhurbenko & Brackel 2013		
<i>Vagnia</i>	<b>cirriformis</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>	[see under Capnodiales]			
<i>Vouauxiella</i>	[ <i>caloplacae</i> Alstrup: on <i>Caloplaca</i> =? <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>	Alstrup 1993a Hawksworth 1981	<b>lichenicola</b> : Culture obtained by Crittenden et al. (1995)	

<i>Xanthoriicola</i>	[see under Capnodiales]			
<i>Xenophoma</i>	<b>puncteliae</b> (Diederich & Lawrey) Crous & Trakunyingcharoen: on <i>Punctelia</i>	Lawrey et al. 2012 Trakunyingcharoen et al. 2014	<b>puncteliae</b> : CBS 128022 TYPE CULTURE	<b>puncteliae</b> (CBS 128022): ITS: <a href="#">JQ238617</a> ; nrLSU: <a href="#">JQ238619</a> ; mtSSU: <a href="#">JQ238618</a>
<i>Zevadia</i>	<b>peroccidentalis</b> J. C. David & D. Hawksw.: on <i>Usnea</i>	David & Hawksworth 1995		

## Home

	Species ( <b>lichenicolous fungi in bold</b> ; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <b>culture</b> <b>collection links</b> )	Sequences (with accession 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 & Tønsberg: 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>usnicola</b> Diederich & Alstrup: on <i>Usnea</i>	Diederich 1996 Diederich & Christiansen 1994		

## Home

	Species	Significant literature	Cultures (with accession	Sequences (with accession
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	(lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i> )		numbers when known; <b>culture collection links</b> )	numbers)
<b>BASIDIOMYCOTA</b>				
<b>Tremellomycetes</b>				
<b>Tremellales</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, Physcia</i> and <i>Physconia</i>	Diederich 1996		<b>bachmannii</b> (CO213): nrSSU: JN043560; ITS: JN053505; nrLSU: JN043612 <b>bachmannii</b> (AM72): nrSSU: JN043559; ITS: JN053506; nrLSU: JN043613 <b>physciacearum</b> (AM17): nrSSU: JN043561; ITS: JN053507; nrLSU: JN043614
Tremellaceae				
<i>Biatoropsis</i>	<b>usnearum</b> Räsänen: on <i>Protousnea</i> and <i>Usnea</i>	Diederich 1996 Diederich & Christiansen 1994 Millanes et al. 2014b	<b>usnearum</b> : CBS 110636 (sequence information indicates this strain is probably a contaminant); CBS 100997	<b>usnearum</b> (AA9): nrSSU: JN043540; ITS: JN053486; nrLSU: JN043592; mtSSU: KJ437248 <b>usnearum</b> (AA10): nrSSU: JN043543; ITS: JN053489; nrLSU: JN043595 <b>usnearum</b> (AM8): nrSSU: KJ437268 <b>usnearum</b> (AM10): ITS: KJ404884; nrSSU: KJ437267 <b>usnearum</b> (AM24): nrSSU: JN043542; ITS: JN053488; nrLSU: JN043594 <b>usnearum</b> (AM110): ITS: KJ404881; nrLSU: KJ437229; mtSSU: KJ437264

				<p><b>usnearum</b> (AM112): ITS: KJ404856; nrLSU: KJ437201; mtSSU: KJ437236</p> <p><b>usnearum</b> (AM137):ITS: KJ404869; nrLSU: KJ437214; mtSSU: KJ437251</p> <p><b>usnearum</b> (AM138): ITS: KJ404863; nrLSU: KJ437208; mtSSU: KJ437243</p> <p><b>usnearum</b> (AM139): ITS: KJ404862; nrLSU: KJ437207; mtSSU: KJ437242</p> <p><b>usnearum</b> (AM140a): ITS: KJ404855; nrLSU: KJ437200; nrSSU: KJ437269</p> <p><b>usnearum</b> (AM141): ITS: KJ404860; nrLSU: KJ437205; mtSSU: KJ437240</p> <p><b>usnearum</b> (AM142): ITS: KJ404864; nrLSU: KJ437209; mtSSU: KJ437244</p> <p><b>usnearum</b> (AM143): ITS: KJ404857; nrLSU: KJ437202; mtSSU: KJ437237</p> <p><b>usnearum</b> (AM144): ITS: KJ404858; nrLSU: KJ437203; nrSSU: KJ437270</p> <p><b>usnearum</b> (AM155): ITS: KJ404867; nrLSU: KJ437212; mtSSU: KJ437247</p> <p><b>usnearum</b> (AM166): ITS: KJ404885; nrLSU: KJ437230</p> <p><b>usnearum</b> (AM168): ITS: KJ404870; nrLSU: KJ437215; mtSSU: KJ437252</p> <p><b>usnearum</b> (AM171): ITS:</p>
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KJ404879; nrLSU: KJ437225;  
mtSSU: KJ437261  
**usnearum** (AM172): ITS:  
KJ404866; nrLSU: KJ437211;  
mtSSU: KJ437246  
**usnearum** (AM190): ITS:  
KJ404853; nrLSU: KJ437198;  
mtSSU: KJ437233  
**usnearum** (AM191a): ITS:  
KJ404852; nrLSU: KJ437197  
**usnearum** (AM191b): mtSSU:  
KJ437232  
**usnearum** (AM192a): ITS:  
KJ404851; nrLSU: KJ437196  
**usnearum** (AM192b): mtSSU:  
KJ437231  
**usnearum** (AM195): nrLSU:  
KJ437223; mtSSU: KJ437260  
**usnearum** (AM196): ITS:  
KJ404878; nrLSU: KJ437224  
**usnearum** (AM201): ITS:  
KJ404877; nrLSU: KJ437222;  
mtSSU: KJ437259  
**usnearum** (AM202a): ITS:  
KJ404876; nrLSU: KJ437221;  
mtSSU: KJ437258  
**usnearum** (AM203): ITS:  
KJ404875; nrLSU: KJ437220;  
mtSSU: KJ437257  
**usnearum** (AM211): ITS:  
KJ404874; nrLSU: KJ437219;  
mtSSU: KJ437256  
**usnearum** (AM212): ITS:  
KJ404871; nrLSU: KJ437216;  
mtSSU: KJ437253  
**usnearum** (AM213a): ITS:

				<p>KJ404882; nrLSU: KJ437227; mtSSU: KJ437265</p> <p><b>usnearum</b> (AM214): ITS: KJ404865; nrLSU: KJ437210; mtSSU: KJ437245</p> <p><b>usnearum</b> (AM215d): ITS: KJ404861; nrLSU: KJ437206; mtSSU: KJ437241</p> <p><b>usnearum</b> (AM229): ITS: KJ404868; nrLSU: KJ437213; mtSSU: KJ437250</p> <p><b>usnearum</b> (AM295): ITS: KJ404883; nrLSU: KJ437228; mtSSU: KJ437266</p> <p><b>usnearum</b> (AM296): ITS: KJ404854; nrLSU: KJ437199; mtSSU: KJ437234</p> <p><b>usnearum</b> (AM297): ITS: KJ404873; nrLSU: KJ437218; mtSSU: KJ437255</p> <p><b>usnearum</b> (AM298): ITS: KJ404872; nrLSU: KJ437217; mtSSU: KJ437254</p> <p><b>usnearum</b> (AM299): ITS: KJ404880; nrLSU: KJ437226; mtSSU: KJ437262</p> <p><b>usnearum</b> (AM307): ITS: KJ404859; nrLSU: KJ437204; mtSSU: KJ437239</p> <p><b>usnearum</b> (CO294): nrSSU: JN043541; ITS: JN053487; nrLSU: JN043593; mtSSU: KJ437249</p>
<i>Tremella</i>	<b>caloplacae</b> (Zahlbr.) Diederich: on <i>Caloplaca</i> and <i>Xanthoria</i>	Diederich 1996 Diederich 2003 Diederich 2004d		<b>caloplacae</b> (AM32): nrSSU: JN043525; ITS: JN053469; nrLSU: JN043574

**candelariellae** Diederich & Etayo: on  
*Candelariella*  
**cephalodiicola** Diederich on *Psoroma*  
**cetrariicola** Diederich & Coppins: on  
*Cetraria delisei* and *Tuckermannopsis*  
**christiansenii** Diederich: on *Physcia*  
**cladoniae** Diederich & M. S. Christ.: on  
*Cladonia*  
**coccocarpiae** Diederich: on *Coccocarpia*  
**coppinsii** Diederich & Marson: on  
*Platismatia*  
**dendrographae** Diederich & Tehler: on  
*Dendrographa*  
**diploschistina** Millanes, M. Westb., Wedin  
& Diederich: on *Diploschistes*  
**everniae** Diederich: on *Evernia*  
*mesomorpha*  
**graphidastrae** Diederich: on *Graphidastra*  
**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*  
**macrobasidiata** J. C. Zamora, Pérez-

Diederich 2007a  
Diederich 2007b  
Diederich et al. 2014  
Sérusiaux et al. 2003  
Millanes et al. 2011  
Millanes et al. 2012  
Millanes et al. 2014a  
Werth et al. 2013

**caloplacae** (AM31): ITS:  
JN053468; nrLSU: JN043573  
**candelariellae** (AM34): nrSSU:  
JN043526; ITS: JN053470;  
nrLSU: JN043575  
**cetrariicola** (AM111): nrSSU:  
JN043544; ITS: JN053490;  
nrLSU: JN043596  
**cetrariicola** (AM123): nrSSU:  
JN043545; ITS: JN053491;  
nrLSU: JN043597  
**christiansenii** (AM36): nrLSU:  
JN043577;  
**cladoniae** (AM84): nrSSU:  
JN043533; ITS: JN053478;  
nrLSU: JN043584  
**cladoniae** (AM125): nrSSU:  
JN043532; ITS: JN053477;  
nrLSU: JN043583  
**coppinsii** (AM38): nrSSU:  
JN043549; ITS: JN053495;  
nrLSU: JN043601  
**coppinsii** (AM124): nrSSU:  
JN043550; ITS: JN053496;  
nrLSU: JN043602  
**dendrographae** (AM39): ITS:  
JN053471; nrLSU: JN043576  
**everniae** (AM1): nrSSU:  
JN043547; ITS: JN053493;  
nrLSU: JN043599  
**haematommatis** (AM41): ITS:  
JN053510; nrLSU: JN043617  
**hypogymniae** (AA7): nrSSU:  
JN043538; ITS: JN053484;  
nrLSU: JN043590  
**hypogymniae** (AM122): nrSSU:

Ortega & V. J. Rico: on *Lecanora*  
**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  
*Phaeographina*  
**phaeophysciae** Diederich & M. S. Christ.:  
on *Phaeophyscia*  
**protoparmeliae** Diederich & Coppins: on  
*Protoparmelia*  
**psoroglaenae** Diederich: on *Psoroglaena*  
**psoromicola** Diederich: on *Psoroma*  
**ramalinae** Diederich: on *Ramalina*  
**rhizocarpicola** Diederich, Millanes &  
Wedin: on *Rhizocarpon*  
**rinodinae** Diederich & M. S. Christ.: on  
*Rinodina*  
**santessonii** Diederich: on *Usnea*

JN043539; ITS: JN053485;  
nrLSU: JN043591  
**leptogii** (AM81): nrSSU:  
JN043531; ITS: JN053476;  
nrLSU: JN043582  
**lichenicola** (AM18): nrSSU:  
JN043558; ITS: JN053504;  
nrLSU: JN043611  
**lobariacearum** (AM80): nrSSU:  
JN043528; ITS: JN053473;  
nrLSU: JN043579  
**lobariacearum** (AM118):  
nrSSU: JN043529; ITS:  
JN053474; nrLSU: JN043580  
**nephromatis** (AM133): nrSSU:  
JN043530; ITS: JN053475;  
nrLSU: JN043581  
**parmeliarum** (AM120): nrSSU:  
JN043565; ITS: JN053511;  
nrLSU: JN043618  
**pertusariae** (AM2): nrSSU:  
JN043548; ITS: JN053494;  
nrLSU: JN043600  
**phaeophysciae** (AM98): ITS:  
JN053479; nrLSU: JN043585  
**phaeophysciae** (AM121):  
nrSSU: JN043534; ITS:  
JN053480; nrLSU: JN043586  
**ramalinae** (AM15): nrSSU:  
JN043567; ITS: JN053513;  
nrLSU: JN043620  
**ramalinae** (AM126): nrSSU:  
JN043566; ITS: JN053512;  
nrLSU: JN043619  
**tuckerae** (AM89): nrSSU:  
JN043536; ITS: JN053482;



	<b>stevensiana</b> Diederich: on <i>Usnea</i> <b>stictae</b> Diederich: on <i>Dendriscocaulon</i> and <i>Sticta</i> <b>sulcariae</b> Diederich & M. S. Christ.: on <i>Sulcaria</i> <b>umbilicariae</b> Diederich & Millanes: on <i>Umbilicaria</i> <b>tuckerae</b> Diederich: on <i>Ramalina</i> <b>wirthii</b> Diederich: on <i>Protoparmelia</i>			nrLSU: <a href="#">JN043588</a> <b>wirthii</b> (AM90): nrSSU: <a href="#">JN043546</a> ; ITS: <a href="#">JN053492</a> ; nrLSU: <a href="#">JN043598</a>
Tremellales incertae sedis				
<i>Heteroacanthella</i>	<b>ellipsospora</b> J. C. Zamora, Pérez-Ortega & V. J. Rico: on <i>Lecanora carpinea</i>	Zamora et al. 2014		

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	Species ( <b>lichenicolous fungi in bold</b> ; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i> )	Significant literature	Cultures (with accession numbers when known; <b>culture collection links</b> )	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.	Alstrup & Hawksworth 1990 Barrasa & Rico 2010 Moreau 2005		<i>leucophylla</i> (p672L): ITS + nrLSU: <a href="#">EU669424</a> ;

	<i>leucophlebia</i> <b>striatula</b> (Kühner) Raithelh.: on <i>Cladonia</i> and <i>Peltigera</i> <i>xerophila</i> (Lüthi & Röllin) Raithelh.: doubtfully lichenicolous on <i>Peltigera</i>			<i>leucophylla</i> (p672i): ITS: EU669382 <i>leucophylla</i> (DAOM192749): nrLSU: AF261375
<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): 5.8S: U85792 <b>arachnoidea</b> (CCFC 212; 211; 210): 5.8S: 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: DQ915468
<b>Corticiales</b>				
Corticaceae				
<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): ITS + nrLSU: HQ168400; nrSSU: HQ168399

<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> ; ITS: <a href="#">AY583324</a> <b>aurantiacum</b> (CBS 718.97): nrLSU: <a href="#">AY583330</a> ; nrSSU: <a href="#">AF289661</a>
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<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>; ITS: <a href="#">AY583325</a></p> <p><b>corallinus</b> (JL128-98): nrLSU: <a href="#">AY583331</a>; ITS: <a href="#">AY583326</a></p> <p><b>corallinus</b> (ATCC MYA-1118): ITS: <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>Bulbilla</i>	<p><b>applanata</b> Diederich, Flakus &amp; Etayo: on Peltigerales</p>	<p>Diederich et al. 2014</p>		<p><b>applanata</b> (Flakus 16422-HOLOTYPE): ITS: <a href="#">KC336078</a></p> <p><b>applanata</b> (Flakus 16424): ITS: <a href="#">KC336079</a></p>

<i>Burgella</i>	<b>flavoparmeliae</b> Diederich & Lawrey: on <i>Flavoparmelia baltimorensis</i> <i>lutea</i> Diederich, Capdet, A. I. Romero & Etayo: facultative lichenicolous over various lichens	Lawrey et al. 2007 Diederich & Lawrey 2007 Diederich et al. 2014	<b>flavoparmeliae</b> : ATCC MYA-2157 TYPE CULTURE	<b>flavoparmeliae</b> (ATCC MYA-2157): nrLSU: <a href="#">DQ915469</a> ; nrSSU: <a href="#">DQ915455</a> <i>lutea</i> (Etayo 27623): ITS: <a href="#">KC336076</a> ; nrLSU: <a href="#">KC336075</a>
<i>Burgellopsis</i>	<b>nivea</b> Diederich & Lawrey: on sterile, crustose lichen	Diederich et al. 2014	<b>nivea</b> ATCC MYA-4209 TYPE CULTURE	<b>nivea</b> (ATCC MYA-4209): nrLSU: <a href="#">KC336077</a>
<i>Burgoa</i>	<b>angulosa</b> Diederich, Lawrey & Etayo: on various lichens	Lawrey et al. 2007 Diederich & Lawrey 2007	<b>angulosa</b> : ATCC MYA-1121 TYPE CULTURE	<b>angulosa</b> (ATCC MYA-1121): nrLSU: <a href="#">AY756069</a> ; nrSSU: <a href="#">AY756076</a> ; mtSSU: <a href="#">AY756072</a>
<i>Ceratobasidium</i>	<b>bulbillifaciens</b> Diederich & Lawrey: on various lichens	Diederich et al. 2014	<b>bulbillifaciens</b> ATCC 208870; CBS 129339, CBS 132236	<b>bulbillifaciens</b> (CBS 129339): nrLSU: <a href="#">KC336073</a> <b>bulbillifaciens</b> (CBS 132236): nrLSU: <a href="#">KC336071</a> ; ITS: <a href="#">KC336072</a> <b>bulbillifaciens</b> (ATCC 208870): nrLSU: <a href="#">DQ915470</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>