

Jan 27 2012

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

		Kutorga & Hawksworth 1997		
<i>Tryblidaria</i>	capensis (Stizenb.) Vouaux: on <i>Buellia callaina</i>	Clauzade et al. 1989		
Incertae sedis				
Dacampiaceae				
<i>Clypeococcum</i>	bisporum Zhurb.: on <i>Cetraria</i> and <i>Flavocetraria</i> cetrariae Hafellner: on <i>Cetraria islandica</i> cladonema (Wedd.) D. Hawksw.: on <i>Cetrelia</i> and <i>Xanthoparmelia</i> epimelanostolum (D. Hawksw. & Øvstedal) Grube & Hafellner: on <i>Buellia melanostola</i> galloides Etayo: on <i>Lecidea</i> s.l. grossum (Körb.) D. Hawksw.: on <i>Umbilicaria</i> hypocenomycis D. Hawksw.: on <i>Hypocenomyce scalaris</i> placopsiophilum Øvstedal & D. Hawksw.: on <i>Placopsis</i> psoromatis (A. Massal.) Etayo [=epicrassum (H. Olivier) Hafellner & Nav.-Ros.]: on <i>Squamarina</i>	Etayo 2010b Etayo & Triebel 2010 Grube & Hafellner 1990 Hafellner 1994a Hafellner 1995 Hawksworth 1977a Hawksworth 1980a Hawksworth 1982a Navarro-Rosinés et al. 1994 Øvstedal & Hawksworth 1986 Zhurbenko 2009a	hypocenomycis : Culture obtained by Crittenden et al. (1995)	
<i>Dacampia</i>	caloplacicola Halici, Candan & Etayo: on <i>Caloplaca</i> cladoniicola Halici & A. Ö. Türk: on <i>Cladonia</i> cyrtellae Brackel: on <i>Lecania cyrtella</i> engeliana (Saut.) A. Massal.: on <i>Solorina</i> hookeri (Borrer) A. Massal.: on <i>Solorina</i> , probably lichenized lecaniae Kocourk. & K. Knudsen: on <i>Lecania fuscella</i> leptogiicola (D. Hawksw.) D. Hawksw.: on <i>Leptogium</i>	Brackel 2010a Brackel 2010b Earland-Bennett et al. 2006 Halici & Hawksworth 2008 Halici et al. 2008 Halici et al. 2009a Halici et al. 2009b Hawksworth 1980b Hawksworth 1986 Henssen 1995 Kocourková & Knudsen 2010b		

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

dictyonematis Etayo & R. Sant.: on
Dictyonema
diederichianum Nav.-Ros.: on *Placynthium*
dzieduszyckii (Boberski) D. Hawksw.: on
Bagliettoa
epicrassum (H. Olivier) R. Sant.: on
Squamarina
epiphyllum Matzer: on foliicolous
Trichothelium
epizoharyi Calat. & V. Atienza: on *Buellia*
zoharyi
evae Calat. & V.J. Rico: on *Dimelaena*
follmannii (C.W. Dodge) Alstrup: on *Lecidea*
cremoricolor
heterodermiae Calat.: on *Heterodermia*
hymeniicola (Berk. & Broome) Zhurb.: on
Lobaria
infestans (Speg.) Etayo: on *Teloschistes*
innatum (Müll. Arg.) D. Hawksw.: on an
unidentified corticolous lichen
jamesii D. Hawksw.: on *Psoromidium*
kaernefeltii S. Y. Kondr.: on *Teloschistes*
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

Matzer 1996
Navarro-Rosinés 1992
Navarro-Rosinés & Roux 1990
Navarro-Rosinés & Roux 1998
Váci & Hawksworth 2001
van den Boom 2010
Zhurbenko 2007b
Zhurbenko 2010b
Zhurbenko & Dillman 2010

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

Placopsis

stictaria (Linds.) D.J. Galloway: on

Pseudocyphellaria

superficiale D. Hawksw. & Miqdl.: on

Peltigera

teresum Halici & K. Knudsen: on *Xanthoria*

tinantii Diederich: on *Caloplaca*

trypethelioides (Th. Fr.) R. Sant.: on

Stereocaulon

umbilicariae (Linds.) D. Hawksw.: on

Lasallia

ventosicola Zhurb.: on *Ophioparma ventosa*

vermicularium (Linds.) D. Hawksw.: on

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

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

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

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

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

	<i>zeylanica</i> hypotrachynae Diederich: on <i>Hypotrachyna</i> leprosulae Pérez-Ortega & T. Sprib.: on <i>Myochroidea leprosula</i> leptogii Diederich: on <i>Leptogium</i> lobariae Etayo & Diederich: on <i>Lobaria</i> maculans (Zopf) Höhn.: on <i>Umbilicaria</i> megalosporae Diederich: on <i>Megalospora</i> microspora Diederich: on <i>Parmeliella</i> minuta R. Sant.: on <i>Marchandiomphalina</i> <i>foliacea</i> pannariacearum Diederich: on Pannariaceae peltigericola (D. Hawksw.) R. Sant.: on <i>Peltigera</i> physciae Diederich: on <i>Physcia</i> pseudocyphellariae Diederich: on <i>Pseudocyphellaria</i> ramalinae Etayo & Diederich: on <i>Ramalina</i> santessonii (P.M. Kirk & Spooner) R. Sant.: on <i>Peltigera</i> sclerenchymatica Etayo: on <i>Pseudocyphellaria</i> setifera Matzer: on foliicolous <i>Bacidia</i> stereocaulorum Zhurb.: on <i>Stereoculon</i> swaminathaniana Harih., Mibey & D. Hawksw.: on <i>Porina</i> thamnoliae R. Sant.: on <i>Thamnolia</i> thelidii Diederich: on <i>Thelidium</i>			
<i>Macrographa</i>	antarctica Etayo: on <i>Nephroma antarcticum</i>	Etayo & Sancho 2008		
Mycosphaerellaceae				
<i>Sphaerulina</i> s.l.	<i>dolichotera</i> (Nyl.) Vouaux: on Collemataceae	Clauzade et al. 1989		

	[probably a synonym of <i>Merismatium decolorans</i>] dubiella (Nyl.) W. Wats.: on crustose lichen <i>intermedia</i> Vouaux: on <i>Leptogium</i> [probably a synonym of <i>Merismatium decolorans</i>] lepidiotae (Anzi) Vain.: on <i>Fuscopannaria praetermissa</i>			
Naetrocymbaceae				
<i>Leptorhaphis</i>	haematommatum Hafellner & Kalb: on <i>Haematomma</i>	Kalb et al. 1995		
Parmulariaceae				
<i>Hemigrapha</i>	asteriscus (Müll. Arg.) D. Hawksw.: on <i>Peltigera</i> atlantica Diederich & Wedin: on <i>Sticta canariensis</i> nephromatis Wedin & Diederich: on <i>Nephroma australe</i> phaeospora Matzer & Lücking: on foliicolous <i>Strigula phyllogena</i> pilocarpacearum M. Cáceres & Lücking: on <i>Byssoloma</i> and <i>Fellhanera</i> pseudocyphellariae Diederich & Wedin: on <i>Pseudocyphellaria argyracea</i> strigulae Matzer: on foliicolous <i>Strigula</i> tenellula (Müll. Arg.) Matzer: on foliicolous <i>Porina</i>	Cáceres & Lücking 2000 Diederich & Wedin 2000 Eriksson et al. 2001 Hawksworth 1975b Matzer 1996		
Pleomassariaceae				
<i>Lichenopyrenis</i>	galligena Calat., M. J. Sanz & Aptroot: on <i>Leptochidium albociliatum</i>	Calatayud et al. 2001b		
Pseudoperisporiaceae				
<i>Epibryon</i>	conductrix (Norman) Nik.Hoffm. & Hafellner [= <i>Stigmidium catapyrenii</i> Cl. Roux & Triebel]: on <i>Catapyrenium</i>	Hoffmann & Hafellner 2000 Matzer 1996 Sérusiaux et al. 1999		

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

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

	<p>Hafellner, nom. nud.: on <i>Rhizoplaca melanophthalma</i></p> <p>mutabilicola Calat. et al., nom. nud.: on <i>Megaspora verrucosa</i> var. <i>mutabilis</i></p> <p>ochrolechia Zhurb.: on <i>Ochrolechia</i> and <i>Pertusaria coriaceae</i></p> <p>parva Hafellner & Ihlen: on <i>Baeomyces pluriseptata</i> (Nyl.) Arnold: on crustose saxicolous lichens</p> <p>punctillata (Nyl.) R. Sant. [= <i>C. lichenicola</i> (Zopf) Hafellner]: on <i>Solorina</i> and <i>Peltigera solearispora</i> Calat., Nav.-Ros. & Hafellner: on <i>Aspicilia</i></p> <p>soror Obermayer & Triebel: on <i>Arthrorhaphis citrinella</i></p> <p>stereocaulorum (Arnold) Hafellner: on <i>Stereocaulon</i></p> <p>thamnoliicola Ihlen: on <i>Thamnolia trypetheliza</i> (Nyl.) Hafellner & Obermayer [= <i>C. arthrorhaphidicola</i> Alstrup]: on <i>Arthrorhaphis alpina</i></p> <p>verrucosaria (Linds.) Arnold: on <i>Megaspora wernerii</i> Nav.-Ros., Calat. & Hafellner: on <i>Aspicilia xanthoriae</i> (Wedd.) R. Sant.: on <i>Xanthoria</i></p>			
<i>Diederimyces</i>	<p>fuscideae Etayo: on <i>Fuscidea cyathodes</i></p> <p>microsporus Etayo: on <i>Pertusaria</i></p>	Etayo 1995b Etayo & Sancho 2008		
<i>Echinothecium</i>	<p>aerophilum Alstrup & M. S. Cole: on <i>Alectoria</i></p> <p>cladoniae Keissl.: on <i>Cladonia reticulatum Zopf: on <i>Parmelia</i></i></p>	Alstrup & Cole 1998 Clauzade et al. 1989 Roux & Triebel 1994	reticulatum : Culture obtained by Crittenden et al. (1995)	
<i>Karschia</i>	alpicolae D. Hawksw. & Alstrup: on <i>Allantoparmelia alpicola</i>	Alstrup & Hawksworth 1990 Hafellner 1979		

	santessonii Hafellner: on <i>Porpidia</i> talcophila (Flot.) Koerb.: on <i>Diploschistes</i>	Santesson 1994a		
<i>Koordersiella</i>	deightonii (D. Hawksw.) D. Hawksw. & O. E. Erikss.: on foliicolous <i>Porina</i> and ?Gomphillaceae insectivora (Hansf.) D. Hawksw. & O. E. Erikss.: on foliicolous <i>Asterothyrium</i> javanica Höhn.: on Gomphillaceae	Eriksson & Hawksworth 1987 Hawksworth 1979a Matzer 1996		
<i>Lanatosphaera</i>	dimerellae Matzer: on foliicolous <i>Dimerella epiphylla</i> porinicola Matzer: on foliicolous <i>Porina epiphylla</i>	Matzer 1996		
<i>Myxophora</i>	apotheciicola Nik. Hoffm. & Hafellner: on <i>Leptogium azureum</i> leptogiophila (G. Winter) Nik. Hoffm. & Hafellner: on <i>Collema</i> and <i>Leptogium plicatile</i> ovalispora Nik. Hoffm. & Hafellner: on <i>Collema</i> placynthii Nik. Hoffm. & Hafellner: on <i>Placynthium caesium</i> tetraspora Nik. Hoffm. & Hafellner: on <i>Collema flaccidum</i>	Hoffmann & Hafellner 2000		
<i>Rosellinula</i>	frustulosae (Vouaux) R. Sant.: on <i>Lecanora frustulosa</i> and <i>L. argopholis</i> haplospora (Th. Fr.) R. Sant.: on <i>Aspicilia</i> and <i>Bellemerea</i> kalbii (Hafellner) Hafellner & R. W. Rogers: on <i>Haematomma puniceum</i> lopadii (Vouaux) D. J. Galloway: on <i>Brigantiaea</i>	Galloway 2004 Hafellner 1985a Hafellner 2004		
<i>Sphaerellothecium</i>	abditum Triebel: on <i>Immersaria</i> and <i>Lecidea</i> araneosum (Arnold) Zopf: on <i>Ochrolechia</i> ,	Alstrup & Cole 1998 Diederich 2007b Diederich & Zhurbenko 2009		

Pertusaria and *Varicellaria*

atryneae (Arnold) Cl. Roux & Triebel: on
Lecanora bicincta, *L. cenisia*, *L. rupicola*
and *L. swartzii*

breussii K. Knudsen, Kocourk. & Etayo: on
Placidium lacinulatum

buelliae (C.W. Dodge) D. Hawksw. & Iturr.:
on *Buellia*

cinerascens Etayo & Diederich: on *Cladonia*
parasitica

cladoniae (Alstrup & Zhurb.) Hafellner: on
Cladonia subgen. *Cladonia* and
Stereocaulon

cladoniicola E. S. Hansen & Alstrup: on
Cladonia subgen. *Cladina*

conioides (Nyl.) Cl. Roux & Diederich: on
Baeomyces rufus

contextum Triebel: on *Calvitimela*,
Protoparmelia, *Rhizocarpon*, *Rhizoplaca*
and *Sporastatia*

episquamarinae Etayo: on *Squamarina*
lentigera

gallowayi Diederich: on *Heterodermia*

giraltiae van den Boom: on *Rinodina*

gowardii Alstrup & M. S. Cole: on
Acarospora schleicheri

icmadophilae (R. Sant.) Zhurbenko: on
Icmadophila ericetorum

minutum Hafellner: on *Sphaerophorus*

pannariacearum Etayo: on *Pannaria*

parietinarium (Linds.) Hafellner & V. John:
on *Xanthoria*

parmeliae Diederich & Etayo: on *Parmelia*

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

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

Home

	Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative lichenicolous fungi in italics</i>)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Arthoniales				
Arthoniaceae				
<i>Arthonia</i> [incl. anam. <i>Helicobolomyces</i> and <i>Subhysteropycnis</i>]	abrothallina Nyl.: on <i>Pseudocyphellaria</i> almquistii Vain.: on <i>Amygdalaria</i> , <i>Koerberiella</i> , <i>Porpidia</i> and <i>Trapelia</i> amylospora Almq.: on <i>Porpidia</i> and <i>Farnoldia</i> anjutii S. Y. Kondr. & Alstrup: on	Alstrup 1993a Alstrup & Cole 1998 Alstrup & Hansen 2001 Alstrup & Olech 1996 Aptroot et al. 1995 Aptroot et al. 1997 Calatayud et al. 1995		

<i>Teloschistes velifer</i>	Calatayud et al. 2004
apotheciorum (A. Massal.) Almq.: on <i>Lecanora albescens</i>	Candan & Halici 2009
arthoniicola Diederich & Aptroot: on <i>Arthonia catenulata</i>	Diederich 1995
aspiciliae (Metzl.) S. Y. Kondr.: on <i>Aspicilia</i>	Ertz et al. 2005
atropunctata Vain.: on sterile foliicolous cf. <i>Echinoplaca</i>	Etayo 1993
ayseniae Halici & Candan: on <i>Acarospora</i> [as ' <i>aysenae</i> ']	Etayo 1996
badia Wedin & Hafellner: on <i>Pseudocyphellaria granulata</i>	Etayo 2002a
biatoricola Ihlen & Owe-Larss.: on <i>Biatora</i> <i>efflorescens</i>	Etayo 2008
caerulescens (Almw.) R. Sant.: on <i>Lecanora</i> <i>varia</i>	Etayo 2010b
ceracea Etayo & Breuss: on <i>Peltigera</i> <i>polydactylon</i> [a homonym of <i>Arthonia</i> <i>ceracea</i> Fée]	Etayo 2010c
cinnabarinula Müll. Arg.: on foliicolous <i>Porina</i> and <i>Trichothelium</i> [anamorph: <i>Helicobolomyces lichenicola</i> Matzer]	Etayo & Breuss 1998
circinata Th. Fr.: on <i>Umbilicaria</i>	Etayo & Diederich 2009
clemens (Tul.) Th. Fr.: on <i>Rhizoplaca</i>	Etayo & Sancho 2008
cohabitans Coppins: on <i>Arthothelium</i> <i>reagens</i>	Follmann & Werner 2003
colombiana Etayo: on <i>Cladonia</i>	Grube & Matzer 1997
coriifoliae Wedin & Hafellner: on <i>Pseudocyphellaria coriifolia</i>	Grube et al. 1995
coronata Etayo: on <i>Flavoparmelia caperata</i>	Halici 2008
cryptotheciae Matzer & R. Sant.: on foliicolous <i>Cryptothecia candida</i>	Halici & Candan 2009
darbishirei Follmann & Werner: on <i>Rocella</i>	Hawksworth 1991a
	Hawksworth & Iturriaga 2006
	Hertel 1969
	Horáková 1994
	Ihlen et al. 2004
	Kalb et al. 1995
	Kantvilas & Vězda 1992
	Kärnefelt et al. 2002
	Kondratyuk 1996a
	Kondratyuk & Zelenko 2002
	Matzer 1996
	Santesson 1993a
	Santesson et al. 2004
	Triebel et al. 1991
	Wedin & Kondratyuk 1997

nigerrima

destruens Rabenh.: on *Physcia*

destruens var. **nana** Grube & Hafellner: on
Xanthoria fallax

digitatae Hafellner: on *Cladonia digitata*

digitispora Etayo: on *Sticta* [as '*digitospora*']

diploiciae Calat. & Diederich: on *Diploicia*
canescens

epicladonia (Nyl.) Alstrup & Zhurb.: on
Cladonia

epifarinosa Etayo: on *Pannaria*

epimela (Norman) I. M. Lamb: on *Buellia*
punctata

epiphyscia Nyl.: on *Physcia*

epitoninia Halici & Candan: on *Toninia*

excentrica Th. Fr.: on *Lepraria* and
Leprocaulon

farinacea (H. Olivier) R. Sant.: on *Ramalina*
farinacea

flavicantis Wedin & Hafellner: on
Pseudocyphellaria flavicans

follmaniana Diederich: on *Roccella*

fuscopurpurea (Tul.) R. Sant.: on *Peltigera*

galactinaria Leight.: on *Lecanora dispersa*
group

garajonayi Etayo: on *Porina*

gelidae R. Sant.: on *Placopsis gelida*

glacialis Alstrup & E. S. Hansen: on
Rhizoplaca melanophthalma

glaucomaria (Nyl.) Nyl.: on *Lecanora*
rupicola

graphidicola Coppins: on *Graphis scripta*

haematommatum Kalb & Hafellner: on

Haematomma

haematostigma Grube & Hafellner: on
Ramalina

hawksworthii Halici: on *Dimelaena*

hertelii (Calat., Barreno & V. J. Rico)

Hafellner & V. John: on *Aspicilia*

Mycopegrapha 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

mazosiicola Matzer & R. Sant.: on

foliicolous *Mazosia*

marginalis Etayo: on *Pseudocyphellaria*

microsticta Vain.: on foliicolous cf.

Fellhanera bouteillei; a species of doubtful

application

minuta Wedin & Hafellner: on

Pseudocyphellaria coriifolia

molendoi (Frauenf.) R. Sant.: on *Caloplaca*
and *Xanthoria*

navasiana Etayo: on *Lepraria*

neglectula Nyl.: on a sterile, sorediate crust
(*Lepraria neglecta?*)

nephromiaria Nyl.: on *Nephroma*

nideri (J. Steiner) Clauzade, Diederich & Cl.
Roux: on *Caloplaca* gr. *variabilis*

obscurior Triebel: on *Pilophorus dovrensis*

oligospora Vězda: on *Lecanora crenulata*

pantherina Etayo: on *Pertusaria pustulata*

parmeliae (C. W. Dodge & G. E. Baker) D.
Hawksw. & Iturr.: on *Physcia caesia*

peltigerea Th. Fr.: on *Peltigera* and *Solorina*

peltigerina (Almq.) H. Olivier: on *Peltigera*
and *Solorina*

pelvetii (Hepp) H. Olivier: on

Pseudocyphellaria aurata

phaeophysciae Grube & Matzer: on

Phaeophyscia

plectocarpoides (S. Y. Kondr. & D. J.

Galloway) Wedin & S. Y. Kondr.: on

Pseudocyphellaria scabrosa

polia Etayo & R. Sant.: on *Diploicia canescens*

prominens Follmann: on *Ingaderia*

gracillima

protoparmeliae Etayo: on *Protoparmelia*

badia

protoparmeliopseos Etayo & Diederich: on

Lecanora muralis

pseudocyphellariae Wedin: on
Pseudocyphellaria multifida
pseudopegraphina Matzer: on foliicolous
Mazosia
punctella Nyl.: on *Diplotomma*
rimeliicola Diederich: on *Parmotrema*
rinodinicola Candan & Halici: on *Rinodina*
oleae
rubescens (Arnold) Clauzade, Diederich &
Cl. Roux: on *Buellia epipolia*
rufidula (Hue) D. Hawksw., R. Sant. &
Øvstedal: on *Umbilicaria*
sagenedii Vězda & Kantvilas: on *Sagenidium*
molle
sampaiana (Diederich & Etayo) Ertz &
Diederich: on *Fuscopannaria sampaiana*
santessoniana Wedin & Hafellner: on
Pseudocyphellaria scabrosa
santessonii Matzer: on foliicolous *Porina*
sherparum Grube & Matzer: on *Lecanora*
sherparum
squamarinae Etayo: on *Squamarina*
lentigera
stereocaulina (Ohlert) R. Sant.: on
Stereocaulon
stictaria Nyl.: on *Pseudocyphellaria*
subaggregata Wedin & Hafellner: on
Pseudocyphellaria hirsuta
subconveniensi Nyl.: on *Lobaria*
subfuscicola (Linds.) Triebel: on *Lecanora*
albella and *L. carpinea*
subvelutinae (Vain.) R. Sant.: on foliicolous
Sporopodium

	<p>sytnikii S. Y. Kondr.: on <i>Xanthoria</i></p> <p>tavaresii Grube & Hafellner: on <i>Anthracothecium</i> and <i>Pyrenula</i></p> <p>tetraspora S. Y. Kondr. & Kärnefelt: on <i>Caloplaca chilensis</i></p> <p>thelotrematis Coppins: on <i>Thelotrema</i></p> <p>tremelloides Etayo: on <i>Heterodermia</i></p> <p>triebelsiae Zhurb.: on <i>Dactylina</i></p> <p>urceolata (Elenkin) Calat., Barreno & V. J. Rico: on <i>Aspicilia</i></p> <p>varians (Davies) Nyl.: on <i>Lecanora rupicola</i> and <i>L. helicopsis</i></p> <p>versoensis Alstrup: on <i>Buellia punctata</i> [= <i>A. aggregata</i> Alstrup, M. S. Christ. & Hafellner]</p> <p>xanthoparmeliarum Etayo: on <i>Xanthoparmelia</i></p>			
'Lecanographaceae'				
<i>Lecanographa</i>	<p>imitans Werner & Follmann: on <i>Roccella humboldtiana</i></p> <p>occidentalis Egea & Torrente: on <i>Roccellina</i></p> <p>rinodinae (Vězda) R. Sant.: on <i>Phaeorrhiza nimbose</i></p>	<p>Egea & Torrente 1994</p> <p>Follmann & Werner 2003</p>		
Opegraphaceae				
<i>Opegrapha</i>	<p>agelaea Fée: on pyrenocarpous lichen</p> <p>anomea Nyl.: on <i>Ochrolechia</i> and <i>Pertusaria</i></p> <p>bacidiae R. Sant.: on '<i>Bacidia</i>' <i>brasiliensis</i></p> <p>blakii Ertz & Diederich: on cf. <i>Ochrolechia</i></p> <p>brevis Coppins: on <i>Thelotrema petractoides</i></p> <p>brevissima Kalb & Hafellner: on <i>Haematomma</i></p> <p>brigantina Hafellner: on <i>Brigantiaea</i></p>	<p>Alstrup & Hawksworth 1990</p> <p>Aptroot et al. 1997</p> <p>Awasthi 1991</p> <p>Clauzade et al. 1989</p> <p>Coppins & Kondratyuk 1998</p> <p>Ertz 2009</p> <p>Ertz & Diederich 2003</p> <p>Ertz et al. 2004</p> <p>Ertz et al. 2005</p> <p>Etayo 1996</p> <p>Etayo 2007</p>		

cladoniicola Ertz & Diederich: on *Cladonia*
cryptotheciae Matzer: on foliicolous
Cryptothecia
diffracticola R. C. Harris & Ladd: on
Bacidia diffracta
ectolechiacearum Matzer & R. Sant.: on
foliicolous *Calopadia*, *Loflammia* and
Sporopodium
encephalographoidea Diederich &
Aptroot: on *Pyrenula*
enterographae Etayo & R. Sant.: on
Enterographa
epiporina Matzer: on foliicolous *Phyllobiale*
and *Porina*
foreau (Moreau) Hafellner & R. Sant.: on
Heterodermia
Leciographa furfuracea (Anzi) Rehm: on
Lecanora rupicola and *Rhizocarpon* [a
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:

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

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*

sphaerophorica Isbrand & Alstrup: on *Sphaerophorus globosus*

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

stigmodes Nyl.: on *Porina*

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

submaritima Hafellner: on *Tephromela atra*

tenuior Stirt.: on *Thelotrema*

thelotrematis Coppins: on *Thelotrema lepadinum* and *T. macrosporum*

uniseptata Matzer: on foliicolous *Strigula*

velata (Müll. Arg.) Vain.: on foliicolous *Actinoplaca*, *Calenia*, ?*Echinoplaca* and *Gyalectidium*

vulpina Vondrák, Kocourk. & Tretiach: on *Caloplaca erodens*

<i>Paralecanographa</i>	grumulosa (Dufour) Egea & Torrente [incl. <i>L. hemisphaerica</i> (Laundon) Egea & Torrente]: on <i>Roccella</i> , rarely on <i>Dirina</i> , <i>Gorgadesia</i> or <i>Opegrapha</i>	Egea & Torrente 1994		
Roccellaceae				
<i>Enterographa</i>	epiphylla (Sérus.) Ertz, Diederich & Sparrius: on foliicolous <i>Coenogonium flavicans</i> mazosiae Matzer & R. Sant.: on foliicolous <i>Mazosia</i> punctata Ertz & Diederich: on <i>Lobaria</i>	Ertz et al. 2005 Matzer 1996		
<i>Schismatomma</i>	physconiicola Ertz & Diederich: on <i>Physconia</i>	Ertz & Diederich 2006		
<i>Sigridea</i>	labyrinthica (Follmann) Ertz & Diederich: on <i>Roccella portentosa</i>	Ertz et al. 2005		
Incertae sedis				
<i>Arthophacopsis</i>	parmeliarum Hafellner: on <i>Parmelia</i> s.s.	Hafellner 1998a		
<i>Mazosia</i>	adelphoparasitica Matzer: on foliicolous <i>Mazosia</i>	Matzer 1996		
<i>Paradoxomyces</i>	nymanii Matzer: on foliicolous <i>Strigula</i>	Matzer 1996		
<i>Perigrapha</i>	nitida Ertz, Diederich, Christnach & Wedin: on <i>Pseudocyphellaria glabra</i> superveniens (Nyl.) Hafellner: on <i>Parmelia sulcata</i>	Ertz et al. 2005 Hafellner 1996a		
<i>Phacographa</i>	glaucomaria (Nyl.) Hafellner: on <i>Lecanora rupicola</i> s.l. (incl. <i>L. bicincta</i>) protoparmeliae Hafellner: on <i>Protoparmelia badia</i> zwackhii (Zwackh) Hafellner: on <i>Phlyctis</i>	Hafellner 2009		
<i>Phacothecium</i>	varium (Tul.) Trevis.: on <i>Xanthoria</i>	Hafellner 2009		
<i>Plectocarpon</i>	arthonioides Diederich: on <i>Lobaria isidiophora</i> bunodophori Wedin, Ertz & Diederich: on	Aptroot et al. 1997 Cáceras et al. 2001 Diederich & Etayo 1994 Ertz & Diederich 2007		

<p><i>Bunodophoron patagonicum</i></p> <p>cladoniae R. Sant.: on <i>Cladonia</i></p> <p>concentricum Ertz, Diederich & Wedin: on <i>Pseudocyphellaria homeophylla</i></p> <p>coppinsii Ertz & Diederich: <i>Pseudocyphellaria crocata</i></p> <p>cristalliferum Christnach, Ertz & Diederich: on <i>Sticta</i></p> <p>encausticum (Nyl.) R. Sant.: on <i>Brodoa</i> <i>intestiniiformis</i></p> <p>gallowayi (S. Y. Kondr.) Ertz & Diederich: on <i>Pseudocyphellaria dissimilis</i></p> <p>gayanum Etayo: on <i>Siphula</i></p> <p>hypogymniae Zhurb. & Diederich: on <i>Hypogymnia bitteri</i></p> <p>lambinonii Diederich & Etayo: on <i>Lobaria</i> and <i>Pseudocyphellaria anomala</i></p> <p>latisporum Ertz, Diederich & Wedin: on <i>Pseudocyphellaria coriifolia</i></p> <p>leuckertii (S. Y. Kondr. & D. J. Galloway) Ertz & Diederich: on <i>Pseudocyphellaria</i> <i>intricata</i> and <i>P. norvegica</i></p> <p>lichenum (Sommerf.) D. Hawksw.: on <i>Lobaria pulmonaria</i>, <i>Pseudocyphellaria</i> <i>anomala</i> and <i>P. anthraspis</i></p> <p>linitae (R. Sant.) Wedin & Hafellner: on <i>Lobaria linita</i></p> <p>macaronesiae Diederich, Etayo & Sérus.: on <i>Lobaria immixta</i> and <i>L. macaronesiae</i></p> <p>melanohaleae Christnach, Ertz & Diederich: on <i>Melanohalea ushuaiensis</i></p> <p>nashii Hafellner: on <i>Niebla robusta</i></p> <p>nephromeum (Norman) R. Sant.: on <i>Nephroma bellum</i></p>	<p>Ertz et al. 2003</p> <p>Ertz et al. 2005</p> <p>Etayo 2007</p> <p>Etayo & Sancho 2008</p> <p>Hawksworth & Galloway 1984</p> <p>Santesson 1993a</p> <p>Santesson 1994a</p> <p>Scholz 1998</p> <p>Wedin & Hafellner 1998</p> <p>Zhurbenko et al. 2008</p>		
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	<p>obtectum Ertz & Diederich: on <i>Pseudocyphellaria encoensis</i></p> <p>opegraphoideum Christnach, Ertz, Diederich & Wedin: on <i>Pseudocyphellaria homeophylla</i> and <i>P. multifida</i></p> <p>peltigerae Zhurb., Ertz, Diederich & Miadl.: on <i>Peltigera leucophlebia</i></p> <p>pseudocyphellariae Diederich: on <i>Pseudocyphellaria gilva</i></p> <p>pseudoleuckertii Diederich, Ertz & Wedin: on <i>Pseudocyphellaria coriifolia</i></p> <p>pseudosticta Fée: on <i>Pseudocyphellaria freycinetii</i> and <i>P. glabra</i></p> <p>aff. pseudosticta Fée: on <i>Pseudocyphellaria intricata</i></p> <p>scrobiculatae Diederich & Etayo: on <i>Lobari(n)a scrobiculata</i></p> <p>serusiauxii Ertz & Diederich: on <i>Sticta</i></p> <p>sticticola Ertz, Wedin & Diederich: on <i>Sticta</i></p> <p>tibellii Ertz & Diederich: on <i>Pseudocyphellaria rubella</i></p> <p>triebelsiae Diederich & Ertz: on <i>Lobaria quercizans</i></p> <p>usneae Diederich & Etayo: on <i>Usnea exasperata</i></p> <p>usneaustralis Etayo: on <i>Usnea</i></p> <p>venustum Ertz, Coppins & Diederich: on <i>Nephroma papillosum</i></p> <p>violaceum Ertz, R. Sant., Diederich & Wedin: on <i>Nephroma antarcticum</i></p>			
<i>Trichophyma</i>	<p>bunchosiae Rehm: on foliicolous <i>Strigula</i></p> <p>similis Matzer: on foliicolous <i>Strigula</i></p>	Matzer 1996		

Home

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

Requienellaceae				
<i>Distopyrenis</i>	japonica Harada: on <i>Graphis proserpens</i>	Harada 2000		
<i>Lacrymospora</i>	parasitica Aptroot: probably lichenicolous on a sterile corticolous lichen (? <i>Myriothrenia</i>)	Aptroot 1991		
<i>Parapyrenis</i>	lichenicola Aptroot & Diederich: on ? <i>Pertusaria</i>	Aptroot et al. 1997		
Verrucariales				
Adelococcaceae				
<i>Adelococcus</i>	alpestris (Zopf) Theiss. & Syd.: on <i>Acarospora glaucocarpa</i> and <i>A. macrospora</i> dissimilis (Triebel) .: on <i>Paraporpidia leptocarpa</i> immersus Etayo & Breuss: on <i>Dermatocarpon biennense</i> interlatens (Arnold) Matzer & Hafellner: on <i>Clauzadea immersa</i> , <i>Hymenelia prevostii</i> and <i>Sarcogyne regularis</i> porocyphii S. Zelanko & S. Y. Kondr.: on <i>Porocyphus</i>	Etayo & Breuss 1998 Kondratyuk & Zelenko 2002 Matzer & Hafellner 1990		
<i>Pseudopyrenidium</i>	tartaricola (Linds.) Alstrup & D. Hawksw.: on <i>Ochrolechia</i>	Alstrup & Hawksworth 1990 Navarro-Rosinés et a. 2010		
<i>Sagediopsis</i>	aquatica (Stein) Triebel: on <i>Koerberiella wimmeriana</i> aspiciliae Nik. Hoffm. & Hafellner: on <i>Aspicilia myrinii</i> barbara (Th. Fr.) R. Sant. & Triebel: on <i>Porpidia glaucophaea</i> campsteriana (Linds.) D. Hawksw. & R. Sant.: on <i>Ochrolechia</i> fissurisedens Hafellner: on <i>Aspicilia myrinii</i> lomnitzensis (Stein) Orange: on <i>Ionaspis lacustris</i> and <i>I. odora</i>	Alstrup & Hawksworth 1990 Hafellner 1993 Hoffmann & Hafellner 2000 Orange 2002 Triebel 1989 Triebel 1993 Zhurbenko 2009c		

	pertusariicola Zhurb.: on <i>Pertusaria</i>			
Sarcopyreniaceae				
<i>Sarcopyrenia</i>	<p>acutispora Nav.-Ros. & Cl. Roux: on cf. <i>Bagliettoa calciseda</i></p> <p>bacillosa (Nyl.) Nav.-Ros. & Hladun: on saxicolous lichens</p> <p>bacillospora Nav.-Ros. & Hladun: on <i>Thelidium</i> and <i>Verrucaria</i></p> <p>baetica Nav.-Ros. & Hladun: on <i>Lecania</i> cf. <i>erysibe</i></p> <p>beckhausiana (J. Lahm) M. B. Aguirre, Nav.-Ros. & Hladun: on saxicolous lichens, mainly Verrucariaceae</p> <p>cylindrospora (P. Crouan & H. Crouan) M. B. Aguirre: mainly on <i>Aspicilia</i></p> <p>gibba Nyl.: on saxicolous lichens, incl. <i>Acarospora</i> and <i>Aspicilia</i></p> <p>gibba var. geisleri (Beckh.) Nav.-Ros. & Hladun: on saxicolous lichens</p> <p>lichinellae Nav.-Ros. & Hladun: on <i>Lichinella stipatula</i></p> <p>plurisepta Nav.-Ros. & Cl. Roux: on <i>Caloplaca variabilis</i></p> <p>sigmoideospora Tretiach & Nav.-Ros.: on <i>Bagliettoa</i></p>	<p>Knudsen & Lendemer 2006</p> <p>Navarro-Rosinés & Hladun 1990</p> <p>Navarro-Rosinés & Hladun 2004</p> <p>Navarro-Rosinés et al. 1998b</p> <p>Navarro-Rosinés et al. 2009</p> <p>Tretiach & Navarro-Rosinés 1996</p>		
Verrucariaceae				
<i>Bellemerella</i>	<p>acarosporae Calat. & Nav.-Ros.: on <i>Acarospora fuscata</i></p> <p>polysporinae Calat. & Nav.-Ros.: on <i>Polysporina simplex</i></p> <p>ritae Pérez-Ortega & T. Sprib.: on <i>Xylographa</i></p> <p>trapeliae Nav.-Ros. & Cl. Roux: on <i>Trapelia</i></p>	<p>Calatayud & Navarro-Rosinés 2001</p> <p>Navarro-Rosinés & Roux, 1997a</p> <p>Pérez-Ortega & Spribille 2007</p>		
<i>Clauzadella</i>	gordensis Nav.-Rox. & Cl. Roux: on	Navarro-Rosinés & Roux 1996		

<p><i>Endococcus</i></p>	<p><i>Verrucaria viridula</i></p> <p>alectoriae D. Hawksw.: on <i>Alectoria</i> apiciicola (J. Steiner) R. Sant.: on <i>Usnea</i> brachysporus (Zopf) M. Brand & Diederich: on <i>Porpidia</i> buelliae (C. W. Dodge) Matzer: on <i>Dimelaena radiata</i> Microthelia calcaricola Mudd: on <i>Aspicilia</i> caudisporus J. C. David & Etayo: on <i>Collema auriforme</i> complanatae Arnold: on <i>Miriquidica</i> exerrans Nyl.: on <i>Rhizocarpon</i> Verrucaria fumosaria Leight.: on <i>Lecidea fuscoatra</i> fusiger Th. Fr. & Almq.: on <i>Rhizocarpon</i> incrassatus Etayo & Breuss: on <i>Placidiopsis</i> karlstadtensis Kocourk. & Brackel: on <i>Endocarpon</i> Verrucaria larbalestieri Leight.: on ... Tichothecium latzelii Keissl.: on <i>Collema macrosporus</i> (Arnold) Nyl.: on <i>Rhizocarpon matzeri</i> D. Hawksw. & Iturr.: on <i>Buellia muscicola</i> nanellus Ohlert: on <i>Stereocaulon</i> oreinae Hafellner: on <i>Dimelaena oreina</i> oropogonicola Etayo: on <i>Oropogon</i> pallidosporus Etayo: on <i>Pseudocyphellaria parentium</i> Etayo: on <i>Pseudocyphellaria parmeliarum</i> Etayo: on <i>Parmelia saxatilis</i> pellax Nyl.: on <i>Collema</i> perminutus Vain.: on <i>Bacidia subincompta</i></p>	<p>Alstrup 1993b Alstrup 1996 Alstrup et al. 1994 Brackel & Kocourková 2006 David & Etayo 1995 Etayo 2002a Etayo 2010b Etayo & Breuss 2001 Etayo & Sancho 2008 Hafellner 1994a Hafellner et al. 2002 Hafellner et al. 2008 Halicí et al. 2007 Hawksworth 1979b Hawksworth 1982a Hawksworth & Iturriaga 2006 Kocourková & Knudsen 2011 Matzer 1993 Santesson 1994b Sérusiaux et al. 1999 Triebel 1989</p>	<p>rugulosus: Culture obtained by Crittenden et al. (1995)</p>	<p>fusigera (Orange 17098): nrSSU+ITS+LSU: FJ645262</p>
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	<p>[see Mycobank 511817]</p> <p>perpusillus Nyl.: on <i>Schaereria</i></p> <p>propinquus (Körb.) D. Hawksw.: on <i>Porpidia</i></p> <p>protoblasteniae Diederich: on <i>Protoblastenia</i></p> <p>pseudocarpus Nyl.: on <i>Collema</i> (and <i>Heppia?</i>)</p> <p>pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i></p> <p>ramalinarius (Lindsay) D. Hawksw.: on <i>Ramalina</i></p> <p>rugulosus (Leight.) Nyl.: on <i>Verrucaria</i></p> <p>sendtneri (Arnold) Hafellner: on <i>Polyblastia sendtneri</i></p> <p>stigma (Körb.) Stizenb.: on <i>Acarospora</i></p> <p>thalamita Cromb.: on ... [see Mycobank 510838]</p> <p>thamnoiae Etayo & R. Sant.: on <i>Thamnoia</i></p> <p>thelommatis Kocourk. & K. Knudsen: on <i>Thelomma santessonii</i></p> <p>tricolorans Alstrup: on <i>Platismatia glauca</i></p> <p>variabilis Halici, Kocourk. & Diederich: on <i>Staurothele</i></p> <p>verrucisporus Alstrup: on <i>Ionaspis lacustris</i></p> <p>verrucosus Hafellner: on <i>Aspicilia</i></p> <p>zahlbrucknerella (Henssen) D. Hawksw.: on <i>Zahlbrucknerella</i></p>			
<i>Haleomyces</i>	oropogonicola D. Hawksw. & Essl.: on <i>Oropogon lopezii</i>	Hawksworth & Esslinger 1993		
<i>Heteroplacidium</i>	<i>fusculum</i> (Nyl.) Gueidan & Cl. Roux: lichen, juvenile parasite on <i>Aspicilia calcarea</i>	Breuss 1994		
<i>Halospora</i>	deminuta (Arnold) Tomas. & Cif.: on	Hafellner 2011		

	<p><i>Polyblastia</i>, <i>Staurothele</i>, <i>Thelidium</i> and <i>Verrucaria</i>, etc.</p> <p>discrepans (Arnold) Hafellner: mainly on <i>Protoblastenia</i>, also on <i>Aspicilia</i>, <i>Hymenelia</i>, <i>Verrucaria</i>, etc.</p> <p>longispora (Cl. Roux & Nav.-Ros.) Hafellner: on endolithic lichens</p> <p>scammoeca (Lettau) Hafellner: on <i>Polyblastia</i>, <i>Thelidium</i> and <i>Verrucaria</i></p>	<p>Roux et al. 2002 Triebel 1989</p>		
<i>Muellerella</i>	<p>antarctica Etayo: on <i>Hypogymnia antarctica</i></p> <p>erratica (A. Massal.) Hafellner & V. John: on diverse lichens</p> <p>hospitans Stizenb.: on <i>Bacidia rubella</i></p> <p>lecanactidis Diederich & van den Boom: on <i>Sigridea californica</i></p> <p>lichenicola (Sommerf.) D. Hawksw.: on diverse lichens</p> <p>polyspora Müll. Arg.: on diverse lichens</p> <p>pygmaea (Körb.) D. Hawksw.: on diverse lichens</p> <p>stictinae (H. Olivier) Vouaux: on <i>Sticta</i></p> <p>triseptata Diederich: on <i>Buellia griseovirens</i> and other lichens</p> <p>ventosicola (Mudd) D. Hawksw.: on <i>Ophioparma</i>, possibly also on <i>Rhizocarpon</i></p> <p>vesicularia (Linds.) D. Hawksw.: on <i>Toninia</i></p>	<p>Clauzade et al. 1989 Diederich 1986 Diederich 2003 Etayo & Sancho 2008 Hawksworth 1985 Triebel 1989</p>	pygmaea : Culture obtained by Crittenden et al. (1995)	
<i>Norrlinia</i>	<p>medoborensis S. Y. Kondr.: on <i>Peltigera</i></p> <p>peltigericola (Nyl.) Theiss. & Syd.: on <i>Peltigera</i> and <i>Marchandiomphalina foliacea</i></p>	<p>Hawksworth 1980b Konratyuk & Galloway 1995a</p>		peltigericola (Palice 4369): nr LSU: AY300845; mtLSU: AY779307; nrSSU: AY779280; mtSSU: AY300896
<i>Phaeospora</i>	<p>arctica Horáková & Alstrup: on <i>Allocetraria</i>, <i>Arctocetraria</i> and <i>Arctoparmelia</i></p> <p>catolechia Zopf: on <i>Catolechia</i></p>	<p>Alstrup & Hansen 2001 Alstrup & Olech 1996 Etayo 2010c Galloway 2004</p>		

	<p><i>wahlenbergii</i> <i>dermatocarponis</i> (R. G. Werner) S. Y. Kondr. [nom. inval.?]: on <i>Dermatocarpon</i> [probably not a <i>Phaeospora</i>] exoriens (Stirt.) A. L. Sm.: on <i>Pannaria</i> <i>fritzei</i> Stein: on <i>Parmelia</i> [possibly a synonym of <i>Homostegia piggotii</i>] lecanorae Eitner: on <i>Lecanora</i> parasitica (Lönnr.) Arnold: on <i>Rhizocarpon</i> [and <i>Lopadium?</i>] peltigericola D. Hawksw.: on <i>Peltigera</i> and <i>Pseudocyphellaria</i> [and <i>Lobaria?</i>] perrugosaria (Linds.) D. J. Galloway: on <i>Placopsis</i> protoblasteniae Alstrup & Olech: on <i>Protoblastenia incrustans</i> rimosicola (Mudd) Stein: on <i>Rhizocarpon</i> [also reported on <i>Aspicilia</i> and <i>Diplotomma</i>] squamarinae Etayo: on <i>Squamarina</i> <i>cartilaginea</i> subantarctica Øvstedal & D. Hawksw.: on <i>Lecania gerlachei</i> verrucariae Alstrup & E. S. Hansen: on <i>Verrucaria placynthiae</i></p>	<p>Hawksworth 1980b Hawksworth 1983 Horáková & Alstrup 1994 Kondratyuk & Zelenko 2002 Øvstedal & Hawksworth 1986 Sérusiaux et al. 1999</p>		
<i>Placocarpus</i>	<p><i>americanus</i> K. Knudsen, Breuss & Kocourk.: lichen, juvenile parasite on <i>Lecanora</i> <i>muralis</i> <i>melanophthalmosus</i> Cl. Roux & Gueidan: lichen, juvenile parasite on <i>Rhizoplaca</i> <i>melanophthalma</i> <i>schaereri</i> (Fr.) Breuss: lichen, juvenile often parasite on <i>Lecanora muralis</i></p>	<p>Breuss 1985 Knudsen et al. 2009 Roux & Gueidan 2011</p>		
<i>Placopyrenium</i>	<p><i>breussii</i> Cl. Roux & Gueidan: lichen, juvenile parasite on <i>Aspicilia calcitraba</i></p>	<p>Breuss 1998 Breuss 2009</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>fuscillum</i> (Turner) Gueidan & Cl. Roux: lichen, juvenile facultative parasite on <i>Bagliettoa</i> and <i>Verrucaria</i></p> <p><i>noxium</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i></p>	<p>Orange 2004</p> <p>Orange 2009</p> <p>Roux & Gueidan 2011</p>		
<i>Telogalla</i>	<p>olivieri (Vouaux) Nik. Hoffm. & Hafellner: on <i>Xanthoria</i></p> <p>physciicola Ihlen & R. Sant.: on <i>Physcia dubia</i></p>	<p>Hoffmann & Hafellner 2000</p> <p>Ihlen & Wedin 2005</p>		
<i>Verrucaria</i>	<p><i>cetera</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i></p> <p>conturmatula Nyl.: on <i>Ionaspis lacustris inficiens</i> Breuss: lichenicolous lichen on <i>Staurothele areolata</i> and <i>S. elenkinii</i></p> <p><i>placynthiae</i> Alstrup & E. S. Hansen: lichenicolous lichen on <i>Placynthium nigrum</i></p>	<p>Alstrup & Hansen 2001</p> <p>Breuss 1998</p> <p>Orange 2002</p>		
<i>Verrucula</i>	<p><i>aegyptiaca</i> (Müll. Arg.) J. Steiner: lichenicolous lichen on <i>Caloplaca</i> gr. <i>velana</i></p> <p><i>ahlesiana</i> (Zwackh) J. Steiner: lichen, probably lichenicolous</p> <p><i>arnoldaria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca arnoldii</i></p> <p><i>biatorinaria</i> (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca biatorina</i></p> <p><i>clauzadaria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca clauzadeana</i></p>	<p>Hoffman & Hafellner 2000</p> <p>Navarro-Rosinés et al. 2007</p> <p>Zehetleitner 1978</p>		

<p><i>coccinearia</i> (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca coccinea</i></p> <p><i>coronataria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca coronata</i></p> <p><i>elegantaria</i> (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Xanthoria elegans</i></p> <p><i>fulvaria</i> Nav.-Ros. & Cl. Roux ad int.: lichenicolous lichen on <i>Caloplaca proteus</i></p> <p><i>granulosaria</i> (Clauz. & Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca</i> <i>granulosa</i></p> <p><i>helvetica</i> (B. de Lesd.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca</i> <i>cirrochroa</i></p> <p><i>hladuniana</i> (Nav.-Ros. & Cl. Roux) Nav.- Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca marina</i></p> <p><i>inconnexaria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca inconnexa</i></p> <p><i>lactearia</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca lactea</i> s.str.</p> <p><i>latericola</i> (Erichs.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca pusilla</i></p> <p><i>maritimaria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca maritima</i></p> <p><i>microspora</i> Nav.-Ros. & Cl. Roux ad int.: lichenicolous lichen on <i>Caloplaca</i> <i>dolomiticola</i></p> <p><i>navasaria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca navasiana</i></p> <p><i>polycarparia</i> Nav.-Ros. & Cl. Roux.: lichenicolous lichen on <i>Caloplaca polycarpa</i></p> <p><i>protearia</i> (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca proteus</i></p>			
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	<i>pusillaria</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca pusilla</i> <i>tarraconensis</i> Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca</i> gr. <i>velana</i>			
<i>Verruculopsis</i>	<i>flavescentaria</i> Gueidan, Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca flavescens</i> <i>irrubescentis</i> (Ménard & Cl. Roux) Gueidan, Nav.-Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca irrubescens</i> <i>poeltiana</i> (Clauz. & Cl. Roux) Gueidan, Nav.- Ros. & Cl. Roux: lichenicolous lichen on <i>Caloplaca aurantia</i>	Ménard & Roux 1991 Navarro-Rosinés et al. 2007		
Incertae sedis				
<i>Gemmaspora</i>	lecanorae (Werner) D. Hawksw. & Halici: on <i>Aspicilia</i>	Hawksworth & Halici 2007		
<i>Merismatium</i>	cladoniicola Alstrup: on <i>Cladonia ciliata</i> coccisporum (Norm.) Vouaux: on <i>Amygdalaria</i> , <i>Euopsis</i> , etc. coccotremicola Etayo: on <i>Coccotrema</i> corae (Pat.) Etayo & R. Sant.: on <i>Dictyonema</i> decolorans (Arnold) Triebel: on <i>Lopadium</i> , <i>Bilimbia</i> , <i>Placynthiella</i> , <i>Trapeliopsis</i> , etc. heterophractum (Nyl.) Vouaux: on <i>Biatora</i> , <i>Bilimbia</i> , <i>Lopadium</i> , etc. nigritellum (Nyl.) Vouaux: on <i>Catapyrenium</i> , <i>Leptogium</i> , <i>Lichenomphalia</i> , <i>Lopadium</i> , <i>Micarea</i> , <i>Mycobilimbia</i> , <i>Ochrolechia</i> , <i>Protoblastenia</i> , etc. peregrinum (Flot.) Triebel: on <i>Rimularia</i> thamnoliicola Alstrup & E. S. Hansen: on <i>Thamnolia vermicularis</i>	Alstrup 1997 Alstrup & Hansen 2001 Etayo 2010b Etayo & Sancho 2008 Hafellner 2011 Hertel & Rambold 1990 Triebel 1989		
<i>Pseudostigmidium</i>	biseptatum Etayo: on <i>Pseudocyphellaria</i>	Etayo & Sancho 2008		

	<p>confusum Etayo; on <i>Pseudocyphellaria</i> disparatum Etayo: on <i>Pseudocyphellaria</i> fumosum Etayo: on <i>Pseudocyphellaria</i> nephromiarium (Lindsay) Etayo: on <i>Nephroma antarcticum</i></p>			
<i>Stigmidium</i>	<p>acetabuli Calat. & Triebel: on <i>Pleurosticta acetabulum</i> aggregatum (Mudd) D. Hawksw.: on <i>Aspicilia</i> alectoriae (Lindsay) Etayo: on <i>Usnea</i> allogenum (Nyl.) D. Hawksw.: on <i>Rhizocarpon</i> arthoniae (Arnold) Hafellner: on <i>Arthonia</i> arthrorhaphidis Hafellner & Obermayer: on <i>Arthrorhaphis citrinella</i> bellemerei Cl. Roux & Nav.-Ros.: on <i>Lecania</i> beringicum Zhurb. & Triebel: on <i>Stereocaulon</i> californicum K. Knudsen & Kocourk.: on <i>Caloplaca stanfordensis</i> calopadiae Matzer: on foliicolous <i>Calopadia</i> cartilagineae Calat. & Triebel: on <i>Squamarina</i> cerinae Cl. Roux & Triebel: on <i>Caloplaca</i> <i>stillicidiorum</i> cladoniicola Zhurb. & Diederich: on <i>Cladonia</i> clauzadei Cl. Roux & Nav.-Ros.: on <i>Verrucaria nigrescens</i> and <i>V. viridula</i> collematis Cl. Roux & Triebel: on <i>Collema</i> congestum (Körb.) Triebel: on apothecia of <i>Lecanora</i> gr. <i>chlarotera</i></p>	<p>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 Matzer 1996 Matzer & Hafellner 1990 Molitor & Diederich 1997 Pérez-Ortega et al. 2010 Roux & Navarro-Rosinés 1994 Roux & Triebel 1994 Roux et al. 1995 Santesson 1989 Santesson 1993b Triebel 1989 Triebel & Scholz 2001 Roux et al. 1998</p>		

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.
frigida

gyrophorarum (Arnold) D. Hawksw.: on
Umbilicaria

Pharcidia haesitans Vouaux: on
Protothelenella sphinctrinoides

hafellneri Zhurb.: on *Flavocetraria cucullata*

hageniae (Rehm) Hafellner: on *Anaptychia*
ciliaris

hesperium Kocourk., K. Knudsen & Diederich: on *Caloplaca coralloides*
heterodermiae Etayo: on *Heterodermia*
humidum Pérez-Ortega, Halici & K. Knudsen: on *Thelenella muscorum*
hygrophilum (Arnold) R. Sant.: on *Rhizocarpon* and *Porpidia*
joergensenii R. Sant.: on *Marchandiomphalina foliacea*
johnii Halici & D. Hawksw.: on *Caloplaca*
lecidellae Triebel, Cl. Roux & Le Coeur: on *Lecidella elaeochroma*
leprariae Zhurb.: on *Lepraria neglecta*
leptogii Etayo: on *Leptogium*
leucophlebiae Cl. Roux & Triebel: on *Peltigera leucophlebia*
lichenum (Arnold) Triebel & P. Scholz: on *Verrucaria maculiformis*
marinum (Deakin) Swinscow: on maritime *Verrucaria*
Pharcidia maritima B. de Lesd.: on *Verrucaria*
microcarpum Alstrup & J.C. David: on *Flavocetraria cucullata*
microspilum (Körb.) D. Hawksw.: on *Graphis scripta*
microsporum Etayo & Osorio: on *Teloschistes*
mitchellii Cl. Roux & Bricaud: on *Pannaria conoplea*
mycobilimbiae Cl. Roux, Triebel & Etayo: on *Bilimbia lobulata* and *B. sabuletorum*
neofusceliae Calat. & Triebel: on

Xanthoparmelia pulla

Pharcidia parva Henssen: on *Ephebe lanata*

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

petri Hafellner: on *Clauzadea monticola*

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

porinae Matzer: on foliicolous *Porina*

pseudopeltideae Cl. Roux & Triebel: on *Peltigera*

psorae (Anzi) Hafellner: on *Psora crenata* and *P. decipiens*

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

punctillum (Arnold) D. Hawksw.: on *Lecania*

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*

	<p>stereocaulorum Zhurb. & Triebel: on <i>Stereocaulon</i></p> <p>stygno spila (Minks) R. Sant.: on <i>Dermatocarpon</i></p> <p>superpositum (Nyl.) D. Hawksw.: on <i>Sporodictyon</i></p> <p>tabacinae (Arnold) Triebel: on <i>Toninia</i></p> <p>tetrasporum Etayo: on Verrucariaceae</p> <p>trichotheliorum Matzer: on foliicolous <i>Trichothelium</i></p> <p>triebelsiae Etayo: on <i>Parmotrema</i></p> <p>Pharcidia verrucariarum (Arnold) Sacc.: on <i>Verrucaria</i></p> <p>vezdae Matzer: on foliicolous <i>Bacidina colchica</i></p> <p>xanthoparmeliarum Hafellner: on <i>Xanthoparmelia</i></p>			
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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; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Mycocaliciales				
Mycocaliciaceae				
<i>Chaenothecopsis</i>	<p>arthoniae Tibell: on <i>Arthonia vinosa</i></p> <p>australis Tibell: on <i>Lecanactis abietina</i></p> <p>brevipes Tibell: on <i>Arthonia</i> and <i>Lecanactis</i></p> <p>cinerea Tibell: on <i>Lecanactis abietina</i></p> <p>consociata (Nád.v.) A. F. W. Schmidt: on</p>	<p>Clauzade et al. 1989</p> <p>Tibell 1991b</p> <p>Tibell 1998</p> <p>Tibell & Ryman 1995</p> <p>Titov 2006</p>	<p>viridireagens: CBS (14 records); UPSC</p>	<p>consociata: nrITS+LSU: AY795851</p> <p>consociata: nrLSU: DQ008999</p> <p>epithallina (Tibell 22793): nrITS+LSU: AY795856</p>

Chaenotheca chrysocephala

epithallina Tibell: on *Chaenotheca trichialis*

formosa Titov: on *Chaenotheca sphaerocephala*

hospitans (Th. Fr.) Tibell: on *Haematomma ochroleucum* and *Lecanora*

kalbii Tibell & K. Ryman: on *Lecanora caesiorubella*

lecanactidis Tibell: on *Lecanactis abietina*

leifiana Titov: on *Arthonia*

nigra Tibell: on *Chaenotheca*

ochroleuca (Körb.) Tibell & K. Ryman: on *Haematomma ochroleucum*

parasitaster (Bagl. & Carestia) D. Hawksw.: on *Cladonia*

pilosa Tibell & Kalb: on *Tylophoron moderatum*

pusiola (Ach.) Vain.: on *Chaenotheca* or saprophytic

retinens (Nyl.) Tibell: on *Schismatomma cretaceum* and *Arthonia byssacea*

rubescens Vain.: on *Arthonia byssacea*, other lichens with *Trentepohlia* or saprophytic

rubina Tibell: on *Pyrgidium montellicum*

sagenidii Tibell: on *Sagenidium molle*

savonica (Räsänen) Tibell: on *Chaenotheca* or saprophytic

sinensis Titov: on unidentified lichen with chlorococcoid algae

subparoica (Nyl.) Tibell: on *Haematomma ochroleucum*

tasmanica Tibell: on diverse lichens, incl. *Chaenotheca chrysocephala*

epithallina (Tibell 22705): nrITS+LSU: [AY795855](#)

epithallina (Tibell 22716): nrLSU: [AY795994](#)

pusiola (Tibell 15884): nrITS+LSU: [AY795865](#)

pusiola (Tibell 19258): nrLSU: [AY795999](#)

savonica (Tibell 15876): nrITS+LSU: [AY795868](#); nrLSU: [AY796000](#)

savonica: nrSSU: [U86691](#)

subparoica: nrITS+LSU: [AY795869](#)

viridireagens (Tibell 22803): nrITS: [AY795872](#); nrLSU: [DQ013257](#)

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

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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; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Lichinales				

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

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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; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Candelariales				
Candelariaceae				
<i>Candelariella</i>	<i>superdistans</i> (Nyl.) Malme: lichenicolous lichen on <i>Lecanora populicola</i>	Gilbert & James 2009		
Lecanorales s.lat.				
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	Knudsen 2011 Knudsen & Kocrouková 2010 Rambold & Triebel 1992		

Aspicilia

insolata (B. de Lesd.) Redinger: lichenicolous lichen on *Immersaria* and *Rhizocarpon*, becoming independent

interjecta H. Magn.: lichenicolous lichen on *Acarospora novomexicana*

invadens H. Magn.: lichenicolous lichen on *Aspicilia* and *Dimelaena*, becoming independent

jenisejensis H. Magn.: lichenicolous lichen on *Buellia*, *Dimelaena* and *Lecanora*, becoming independent

microcarpa (Nyl.) Weddell: lichenicolous lichen on *Acarospora* and *Dimelaena*, becoming independent

nashii K. Knudsen: lichenicolous lichen on *Dimelaena* and *Pleopsidium*, becoming independent

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

sphaerospora H. Magn.: lichenicolous lichen on *Aspicilia*, becoming independent

stapfiana (Müll. Arg.) Hue: lichenicolous lichen on *Caloplaca* and *Xanthoria elegans*

strigata (Nyl.) Jatta: lichenicolous lichen on *Aspicilia*, becoming independent

succedens H. Magn.: lichenicolous lichen on *Dimelaena oreina*

superans H. Magn.: lichenicolous lichen on *Aspicilia* and *Dimelaena*

suprasedens H. Magn.: lichenicolous lichen on *Aspicilia* and *Lecanora*

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

	<i>umbrina</i> H. Magn.: lichenicolous lichen on <i>Lecanora</i>			
<i>Polysporina</i>	arenacea (H. Magn.) K. Knudsen & Kocourk.: on crustose lichens on siliceous rocks pusilla (Anzi) Kantvilas: on crustose lichens on calcareous rocks, e.g., <i>Acarospora</i> , <i>Caloplaca</i> , <i>Protoblastenia</i> subfuscescens (Nyl.) K. Knudsen & Kocourk.: on crustose lichens on siliceous rocks, e.g., <i>Acarospora</i> , <i>Buellia</i> , <i>Caloplaca</i> , <i>Candelariella</i> , <i>Lecidea</i>	Knudsen & Kocourkoná 2008		
<i>Sarcogyne</i>	sphaeospora J. Steiner: lichenicolous lichen on <i>Candelariella</i>	Lendemer et al. 2009		
Catillariaceae				
<i>Catillaria</i>	mediterranea Hafellner: lichenicolous lichen with a reduced thallus, on <i>Anaptychia ciliaris</i> and <i>Niebla bourgaeana</i> usneicola Etayo: on <i>Usnea</i>	Etayo 2000 Hafellner 1982b		
<i>Halecania</i>	<i>lobulata</i> van den Boom & Elix: lichen, possibly lichenicolous over <i>Hymenelia</i> <i>santessonii</i> Andreev: lichenicolous lichen on <i>Porpidia albocaerulescens</i>	Andreev 2010 van den Boom & Elix 2005		
Fuscideaceae				
<i>Lettauia</i>	cladoniicola D. Hawksw. & R. Sant.: on <i>Cladonia</i> hypotrachynae Etayo: on <i>Hypotrachyna</i> santessonii 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				

Carbonea

aggregantula (Müll. Arg.) Diederich & Triebel: on *Lecanora* (mainly *L. polytropa*), also reported from *Rhizoplaca*
antarctica (C. W. Dodge & G. E. Baker) D. Hawksw. & Iturr.: on *Pseudephebe assimilis* (Körb.) Hafellner & Hertel: lichenicolous lichen on *Aspicilia*, *Lecanora*, *Lecidea*, *Pertusaria*, *Rhizocarpon* and *Tephromela*
atronivea (Arnold) Hertel: lichenicolous lichen on *Lecidella*, becoming independent
degelii Alstrup: on *Lecanora intricata*
distans (Kremp.) Hafellner & Obermayer: lichenicolous lichen on *Orphniospora mosigii*
distans var. **buelliarum** (Hertel) Hertel: lichenicolous lichen on *Buellia*
herteliana Hafellner & Matzer: on *Rhizocarpon*
Catillaria hospitans H. Magn.: on *Lecidea*
intrudens (H. Magn.) Hafellner: on *Rhizocarpon*
invadens (H. Magn.) Andreev: lichen, juvenile lichenicolous on *Rhizocarpon geographicum*
minor Triebel & Rambold ined.: on *Lecanora* 'subfusca' and *L. vainioi*
neuropogonis Etayo: on *Usnea aurantiaco-atra*
superjecta (Nyl.) Hertel: on *Lecanora disjungenda*
supersparsa (Nyl.) Hertel: on *Lecanora* (mainly *L. polytropa*)
supersparsa var. **bicolor** R. Sant. & Triebel ined.: on *Lecanora intricata*

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

supersparsa: nrSSU: [AY567773](#)
vitellinaria: nrITS and nrLSU:
[AY541239](#)

	vitellinaria (Nyl.) Hertel: on <i>Candelariella</i>			
<i>Lecanora</i>	<p><i>epithallina</i> H. Magn.: lichenicolous lichen on <i>Vestergrenopsis isidiata</i></p> <p><i>gisleriana</i> Müll. Arg.: lichenicolous lichen on <i>Lecanora epanora</i>, <i>L. handelii</i> and <i>L. subaurea</i></p> <p><i>invadens</i> H. Magn.: lichenicolous lichen on <i>Aspicilia asiatica</i></p> <p>lasalliae Pérez-Ortega & Etayo: on <i>Lasallia pustulata</i></p> <p><i>latro</i> Poelt: lichenicolous lichen on <i>Miriquidica nigroleprosa</i></p> <p>lecanoricola (Alstrup, D. Hawksw. & R. Sant.) Rambold & Triebel: on <i>Lecanora cenisia</i></p> <p><i>mosigiicola</i> (Eitner) Hertel & Rambold: lichenicolous lichen on <i>Orphniospora mosigii</i></p> <p><i>mosigiicola</i> var. <i>buelliarum</i> (Hertel) Hertel & Rambold: lichenicolous lichen on <i>Buellia printzenii</i></p> <p><i>printzenii</i> Pérez-Ortega, Vivas & Hafellner: lichenicolous lichen on <i>Umbilicaria</i></p> <p><i>tolypodes</i> Poelt & Vězda: lichenicolous lichen on <i>Aspicilia</i> cf. <i>grisea</i></p> <p>usneicola Etayo: on <i>Usnea antarctica</i></p>	<p>Etayo & Sancho 2006</p> <p>Lumbsch et al. 2011</p> <p>Pérez-Ortega & Etayo 2008</p> <p>Rambold & Triebel 1992</p>		
<i>Lecidella</i>	<p><i>dimelaenophila</i> Hertel: lichen, juvenile lichenicolous on <i>Dimelaena oreina</i></p> <p><i>vorax</i> Leuckert & Poelt: lichenicolous lichen on <i>Lecanora rupicola</i></p>	Rambold & Triebel 1992		
<i>Miriquidica</i>	intrudens (H. Magn.) Hertel & Rambold: lichenicolous lichen on <i>Rhizocarpon</i>	Rambold & Triebel 1992		
<i>Ramboldia</i>	<i>insidiosa</i> (Th. Fr.) Hafellner: lichenicolous	Hafellner & Türk 1995		

	lichen on <i>Lecanora varia</i>			
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>	umbonella (Nyl.) Triebel & Rambold: on <i>Lecidea</i> xenophana (Körb.) Triebel & Rambold: on <i>Porpidia</i>	Triebel & Rambold 1988		umbonella : nrLSU: AY532990 ; beta-tubulin: AY536768 xenophana : nrLSU: AY532991 ; beta-tubulin: AY536769
<i>Immersaria</i>	<i>athrocarpa</i> (Ach.) Rambold & Pietschmann: lichen, facultative juvenile lichenicolous on <i>Aspicila</i> and other lichens usbekica (Hertel) Barbero, Nav.-Ros. & Roux: lichen, facultative juvenile lichenicolous on <i>Aspicila</i> and other lichens	Rambold & Triebel 1992		
<i>Lecidea</i> s.l.	acervata Stiz.: on <i>Pseudoparmelia</i> [a poorly known taxon] cetrariicola Lindsay: on <i>Cetraria</i> grumannii Hertel: lichenicolous lichen on <i>Acarospora</i> halacsyi J. Steiner: on <i>Rhizocarpon geographicum</i> perforans 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>	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>	campestricola (Nyl.) Rambold & Triebel: on	Rambold 1993		

	<p><i>Lecanora pseudistera</i> and <i>L. sp.</i> cerasina (Müll. Arg.) Rambold & Triebel: on <i>Dirinaria</i> koliensis (Räs.) Rambold & Triebel: on <i>Lecanora argopholis</i></p>			
Parmeliaceae				
<i>Phacopsis</i>	<p>australis Aptroot & Triebel: on <i>Xanthoparmelia</i> cephalodioides (Nyl.) Triebel & Rambold: on <i>Hypogymnia physodes</i> doerfeltii Alstrup & P. Scholz: on <i>Arctoparmelia centrifuga</i> falcispora Triebel & Rambold: on <i>Usnea</i> fusca (Triebel & Rambold) Diederich: on <i>Xanthoparmelia</i> and other parmelioid genera (<i>Hypogymnia</i>, <i>Parmelinopsis</i>, <i>Parmotrema</i>, <i>Pseudevernia</i>) huuskonenii Räsänen: on <i>Bryoria</i> lethariellae Hafellner & Rambold: on <i>Lethariella intricata</i> oroarcticae Zhurb.: on <i>Brodoa oroarctica</i> oxyspora (Tul.) A. Massal. [incl. <i>menegazziae</i> Triebel & Rambold]: on <i>Everniastrum</i>, <i>Hypotrachyna</i>, <i>Melanohalea</i>, <i>Menegazzia</i>, <i>Parmelia</i>, <i>Platismatia</i> and <i>Punctelia</i> prolificans (Müll. Arg.) Triebel & Rambold: on <i>Platismatia interrupta</i> rufa (Müll. Arg.) Triebel: on <i>Cetrelia</i> and <i>Punctelia</i> thallicola (A. Massal.) Triebel & Rambold: on <i>Cetrelia</i>, <i>Flavoparmelia</i>, <i>Flavopunctelia</i> and <i>Parmotrema</i> usneae C. W. Dodge: on <i>Usnea</i> subgen. <i>Neuropogon</i></p>	<p>Etayo & Sancho 2006 Hafellner 1987a Scholtz 1998 Triebel & Rambold 1988 Triebel et al. 1995 Zhurbenko 2010b</p>		<p>huuskonenii: nrITS (Phuu): AF450283 huuskonenii (D41): nrSSU: AF450289 oxyspora (D169): nrITS: AF450287 oxyspora (D20): nrITS: AF450284 oxyspora (PhCop1): nrSSU: AF450290 vulpina (D132): nrITS: AF450285</p>

	vulpina Tul.: on <i>Letharia</i>			
<i>Protoparmelia</i>	<i>atriseda</i> (Fr.) R. Sant. & V. Wirth: lichen, juvenile lichenicolous on <i>Rhizocarpon</i> <i>cupreobadia</i> (Nyl.) Poelt: lichen, juvenile lichenicolous on <i>Rhizocarpon</i> <i>leproloma</i> (R. Sant.) Rambold & Poelt: lichenicolous lichen on <i>Lecidea praenubila</i> <i>loricata</i> Poelt & Vězda: lichenicolous lichen on <i>Lecanora umbrosa</i> <i>phaeonesos</i> Poelt: lichenicolous lichen on <i>Aspicilia myrinii</i> <i>placentiformis</i> (J. Steiner) Poelt: lichen, juvenile lichenicolous on <i>Bellemerea cupreatra</i>	Rambold & Triebel 1992		
Physciaceae				
<i>Buellia</i>	adjuncta Th. Fr.: on <i>Lecanora straminea</i> (and <i>Rinodina olivaceobrunnea</i> ?) <i>badia</i> (Fr.) A. Massal.: lichen, juvenile parasite on saxicolous <i>Parmelia</i> s. lat. <i>caloplacivora</i> Llimona & Egea: lichenicolous lichen on <i>Caloplaca</i> , becoming independent <i>imshaugii</i> Hafellner: lichenicolous lichen on <i>Dimelaena oreina</i> <i>miriquidica</i> Scheidegger: lichenicolous lichen on <i>Schaereria fuscocinerea</i> <i>uberior</i> Anzi: lichenicolous lichen on <i>Schaereria fuscocinerea</i> , soon becoming	Calatayud & Barreno 1995 Clauzade et al. 1989 Hafellner 1979 Rambold & Triebel 1992 Scheidegger 1987		

	independent vouauxii Calatayud & Barreno: on <i>Rhizoplaca melanophthalma</i>			
' <i>Caliciella</i> '	parasitica Räsänen: on <i>Chaenotheca furfuracea</i>	Clauzade et al. 1989 Kaufmann & Hofmann 1998		
<i>Cyphelium</i>	marcianum B. de Lesd.: on <i>Pertusaria pseudocorallina</i> sessile (Pers.) Trevis.: on <i>Pertusaria coccodes</i> and other corticolous <i>Pertusaria</i>	Giavarini & Purvis 2009 Tibell 1971		
<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 <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		
<i>Endohyalina</i>	brandii Giralt, van den Boom & Elix: on <i>Aspicilia intermutans</i> , often lichenized with an own thallus diederichii Giralt, van den Boom & Elix: on <i>Ramalina</i> , occasionally lichenized with a reduced thallus insularis (Arnold) Giralt, van den Boom & Elix: on <i>Lecanora rupicola</i> agg., very rarely lichenized with a reduced thallus	Giralt et al. 2010		
<i>Rinodina</i>	egedeana (Lindsay) Alstrup & D. Hawksw.: on <i>Parmelia</i> and <i>Peltigera</i>	Alstrup & Hawksworth 1990 Rambold & Triebel 1992		

	<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 & 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>			
<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>phaeophysciae A. Nordin & Tibell: on <i>Phaeophyscia</i> and <i>Physcia</i></p> <p>pulverulentus (Anzi) A. Nordin & Tibell: mainly on <i>Physconia</i>, also on <i>Anaptychia</i>, <i>Phaeophyscia</i> and <i>Physcia</i></p>	<p>Hafellner & Poelt 1980</p> <p>Nordin & Tibell 2005</p> <p>Scheidegger & Ruef 1988</p>		
Pilocarpaceae				
<i>Micarea</i>	<p>inquinans (Tul.) Coppins: on <i>Dibaeis baeomyces</i></p>	<p>Coppins 2009</p>		
<i>Scutula</i>	<p>cladoniicola Alstrup & D. Hawksw.: on <i>Cladonia stricta</i></p> <p><i>dedicata</i> Triebel, Wedin & Rambold: lichenicolous lichen on <i>Peltigera</i></p> <p>epiblastematica (Wallr.) Rehm: on <i>Peltigera</i></p> <p><i>heerii</i> (Hepp) Trevis.: lichenicolous lichen on <i>Peltigera</i></p> <p>lobariicola Alstrup: on <i>Lobaria scrobiculata</i></p> <p>miliaris (Wallr.) Trevis.: on <i>Peltigera</i></p>	<p>Alstrup 1997</p> <p>Alstrup & Hawksworth 1990</p> <p>Etayo & Sancho 2008</p> <p>Etayo & Triebel 2010</p> <p>Triebel et al. 1997</p> <p>Wedin et al. 2007</p>		<p>tuberculosa [=krepelhuberi]: mtSSU: AY567789</p> <p>miliaris: mtSSU: AY567790</p>

	[anamorph: <i>Karsteniomyces peltigerae</i> (P. Karst.) D. Hawksw.] nephromatis (Speg.) Etayo: on <i>Nephroma antarcticum</i> pseudocyphellariae Etayo & Triebel: on <i>Pseudocyphellaria</i> stereocaulorum (Anzi) Körber: on <i>Stereocaulon</i> tuberculosa (Th. Fr.) Rehm: on <i>Solorina</i>			
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>	killiasii (Hepp) D. Hawksw.: on <i>Peltigera</i>	Rambold & Triebel 1992		
<i>Toninia</i>	collematicola Timdal: on <i>Collema</i> episema (Nyl.) Timdal: on <i>Aspicilia</i> leptogii Timdal: on <i>Collema</i> and <i>Leptogium nordlandica</i> Th. Fr.: lichenicolous lichen on <i>Placynthium</i> and other lichens with cyanobacteria plumbina (Anzi) Hafellner & Timdal: on <i>Degelia</i> subfuscae (Arnold) Timdal: on <i>Lecanora</i> , rarely on <i>Lecidella</i> talparum Timdal: on <i>Lecania ualae</i> Etayo: lichenicolous lichen on <i>Pseudocyphellaria</i> and <i>Nephroma antarcticum</i> <i>verrucariae</i> (Nyl.) Timdal: on <i>Bagliettoa</i> and <i>Encephalographa elisae</i> <i>verrucarioides</i> (Nyl.) Timdal: lichenicolous	Etayo & Sancho 2008 Rambold & Triebel 1992 Timdal 1992		plumbina : nrITS: AF282107 verrucarioides : nrITS: AF282128

	lichen on <i>Placynthium</i>			
Rhizocarpaceae				
<i>Epilichen</i>	<i>glaucinigellus</i> (Nyl.) Hafellner: lichenicolous lichen on <i>Baeomyces</i> <i>scabrosus</i> (Ach.) Clements: lichenicolous lichen on <i>Baeomyces</i> stellatus Triebel: on <i>Lecidea</i> cf. <i>tessellata</i>	Hafellner 1978 Triebel 1989		
<i>Rhizocarpon</i>	advenulum (Leight.) Hafellner & Poelt: on <i>Pertusaria flavicans</i> and <i>P. rupicola</i> <i>asiaticum</i> (Poelt) Poelt: lichenicolous lichen on <i>Sporastatia</i> bryonthae Poelt: on <i>Pertusaria bryontha</i> <i>captans</i> Poelt: lichenicolous lichen on <i>Aspicilia</i> <i>destructans</i> Alstrup: lichenicolous lichen on <i>Lecanora polytropa</i> dinothetes Hertel & Leuckert: lichenicolous lichen on <i>Protoparmelia</i> <i>diploschistidina</i> McCune: lichenicolous lichen on <i>Diploschistes muscorum</i> <i>epispilum</i> (Nyl.) Zahlbr, s.lat.: on saxicolous <i>Pertusaria</i> <i>fratricida</i> Poelt & Nimis: lichenicolous lichen on <i>Rhizocarpon</i> <i>fuegianum</i> Poelt, nom. nud.: lichenicolous lichen on <i>Rhizocarpon geographicum</i> <i>furax</i> Poelt & V. Wirth: lichenicolous lichen on <i>Lecidea</i> <i>inimicum</i> Poelt & Vězda: lichenicolous lichen on <i>Lecanora rupicola</i> s.lat. <i>kakurgon</i> Poelt: lichenicolous lichen on <i>Aspicilia</i>	Lumbsch et al. 2011 Rambold & Triebel 1992		

	<p><i>kansuense</i> H. Magn.: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>lusitanicum</i> (Nyl.) Arnold: lichenicolous lichen on saxicolous <i>Pertusaria</i></p> <p>malenconianum (Llimona & Werner) Hafellner & Mayrhofer: on <i>Diploschistes</i></p> <p>narssaqense Alstrup: on <i>Lecanora atromarginata</i></p> <p>ochrolechia (Poelt & Nimis) Hafellner: on <i>Ochrolechia parella</i></p> <p><i>pusillum</i> Runem.: lichenicolous lichen on <i>Sporastatia</i></p> <p><i>rapax</i> V. Wirth & Poelt: on <i>Acarospora</i>, <i>Aspicilia</i> and <i>Rimularia</i></p> <p><i>renneri</i> Poelt: on <i>Dimelaena oreina</i></p> <p><i>santessonii</i> Timdal: on <i>Tremolecia atrata</i></p> <p><i>schedomyces</i> Hafellner & Poelt: on saxicolous <i>Pertusaria</i></p> <p><i>viridiatrum</i> (Wulf.) Koerb.: lichen, juvenile often lichenicolous on <i>Aspicilia</i>, <i>Lecidea</i>, <i>Tremolecia</i></p> <p><i>vorax</i> Poelt & Hafellner: on <i>Ochrolechia parella</i> and <i>Pertusaria</i></p>			
Teloschistaceae				
<i>Caloplaca</i>	<p><i>anchonphoeniceon</i> Poelt & Clauz.: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>epithallina</i> Lynge: 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>Breuss 1990</p> <p>Nimis et al. 1994</p> <p>Olech & Søchting 1993</p> <p>Rambold & Triebel 1992</p> <p>Wetmore 1999</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 & 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 & Nimis: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>invadens</i> Lyngbe: lichenicolous lichen on <i>Lecanora</i>, <i>Physcia caesia</i></p> <p><i>magni-filii</i> Poelt: lichenicolous lichen on <i>Miriquidica nigroleprosa</i></p> <p><i>necator</i> Clauz. & Poelt: lichenicolous lichen on <i>Aspicilia</i></p> <p><i>polycarpa</i> (A. Massal.) Zahlbr.: lichenicolous lichen on <i>Bagliettoa</i></p> <p><i>psoricida</i> Hansen, Poelt & Søchting: lichenicolous lichen on <i>Psora rubiformis</i></p> <p><i>rinodinae-albae</i> Poelt & Nimis: lichenicolous lichen on <i>Rinodina alba</i></p>			
<i>Fulgensia</i>	<i>epiplacynthium</i> Etayo: lichenicolous lichen on <i>Placynthium filiforme</i>	Etayo 2010c		
Incertae sedis				
<i>Corticifraga</i>	<p>chugachiana Zhurb.: on <i>Lobaria oregana</i></p> <p>fuckelii (Rehm) D. Hawksw. & R. Sant.: on <i>Peltigera</i></p> <p>fusispora Zhurb.: on <i>Peltigera aphthosa</i> and <i>P. leucophlebia</i></p>	<p>Etayo & Sancho 2008</p> <p>Hawksworth & Santesson 1990</p> <p>Zhurbenko 2007c</p> <p>Zhurbenko 2009b</p>		

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

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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; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Agyriales				
Agyriaceae				
<i>Hafellnera</i>	<i>parasemella</i> (Nyl.) Houmeau & Cl. Roux:	Houmeau & Roux 1984		

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

	<p><i>tornoënsis</i></p> <p>lecanorae Diederich & Marson: on <i>Lecanora</i></p> <p>melaneliae Diederich & Zhurb.: on <i>Melanelia hepatizon</i> and <i>Melanohalea olivacea</i></p> <p>navarinoi Etayo: on <i>Micarea magellanica</i></p> <p>ochrolechia Diederich, Holien & Zhurb.: on <i>Ochrolechia</i></p> <p>pertusariae Etayo, Diederich & Coppins: on <i>Pertusaria hymenea</i></p> <p>rhizocarpicola Zhurb., Diederich & Himelbrant: on <i>Rhizocarpon</i> gr. <i>geographicum</i></p> <p>santessonii Zhurb., Etayo & Diederich on <i>Thamnolia vermicularis</i></p> <p>sipei (Grubmann) Diederich: on <i>Letharia</i></p> <p>thamnoliae Zhurb., Diederich & Etayo: on <i>Thamnolia</i></p> <p>sp. 1: on <i>Mycoblastus</i></p> <p>sp. 2: on <i>Usnea</i></p> <p>sp. 3: on <i>Lecanora</i></p>			
<i>Paraethariicola</i>	aspiciliae Calat., Etayo & Diederich: on <i>Aspicilia</i>	Calatayud et al. 2001a		
<i>Spirographa</i>	fusisporella (Nyl.) Zahlbr.: on diverse lichens	Diederich 2004 Sherwood-Pike 1987		
<i>Thamnogalla</i>	crombiei (Mudd) D. Hawksw.: on <i>Thamnolia</i>	Hoffmann & Hafellner 2000		
Stictidaceae				
<i>Nanostictis</i>	<p>christiansenii Etayo: on <i>Lobaria pulmonaria</i></p> <p>nephromatis Etayo: on <i>Nephroma antarcticum</i></p> <p>peltigerae M.S. Christ.: on <i>Peltigera</i></p> <p>pluriseptata Etayo: on <i>Lobaria</i> gr. <i>pallida</i></p> <p>pseudocyphellariae Sherwood: on</p>	Etayo 2002a Etayo & Diederich 1996b Etayo & Sancho 2008		

	<i>Pseudocyphellaria</i> stictae Etayo: on <i>Sticta</i>			
<i>Stictis</i> s.l.	cladoniae (Rehm) Sacc.: on <i>Cladonia</i>	Sherwood 1977		
Thelotremataceae				
<i>Diploschistes</i>	<i>bisporus</i> (Bagl.) Steiner: lichen, facultative lichenicolous on <i>Rhizocarpon geographicum</i> s.l. <i>caesioplumbeus</i> (Nyl.) Vainio: lichen, facultative lichenicolous on <i>Lecanora gangaleoides</i> <i>euganeus</i> (A. Massal.) Steiner: lichen, facultative lichenicolous on <i>Ochrolechia parella</i> muscorum (Scop.) R. Sant.: lichenicolous on <i>Cladonia</i> (rarely <i>Stereocaulon</i>) when young, later an independent lichen	Lumbsch 1989		

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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; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Helotiales				
Dermateaceae				
<i>Mollisia</i>	collematis Boud.: on <i>Collema</i>	Clauzade et al. 1989 Vouaux 1914		
<i>Niptera</i>	lichenicola (Speg.) Sacc.: on <i>Flavoparmelia caperata</i> microscopica (Crouan) Vouaux: on <i>Placynthiella uliginosa</i>	Clauzade et al. 1989 Vouaux 1914		

Helotiaceae				
<i>Bryoscyphus</i>	lichenicola Alstrup & M. S. Cole: on <i>Cladonia</i> cf. <i>pyxidata</i>	Alstrup & Cole 1998		
<i>Unguiculariopsis</i>	<p>acrocordiae (Diederich) Diederich & Etayo: on <i>Acrocordia gemmata</i></p> <p>ahtii D. Hawksw., D. J. Galloway & S. Y. Kondr.: on <i>Pseudocyphellaria</i></p> <p>cribriformis (Norman) Alstrup & D. Hawksw.: on <i>Pertusaria dactylina</i></p> <p>damingshanica W. Y. Zhuang: on unidentified lichen on bamboo</p> <p>hispidula Etayo: on <i>Psoroma hispidulum</i></p> <p>lesdainii (Vouaux) Etayo & Diederich: on <i>Lecanora saligna</i></p> <p>lettaui (Grummann) Coppins: on <i>Evernia prunastri</i></p> <p>lobariellum S. Y. Kondr. & D. J. Galloway: on <i>Lobaria</i> and <i>Durietzia</i></p> <p>lucaniae Brackel: on <i>Lecidella elaeochroma</i></p> <p>macrocarpa Etayo: on <i>Pseudocyphellaria</i></p> <p>manriquei Etayo: on <i>Lobaria pulmonaria</i></p> <p>refractiva (Coppins) Coppins: on <i>Bilimbia</i></p> <p>thallophila (P. Karst) W. Y. Zhuang: on <i>Lecanora</i></p> <p>trieregia S. Y. Kondr. & D. J. Galloway: on <i>Sticta</i></p> <p>[see also <i>Llimoniella muralicola</i> Halici: on <i>Lecanora muralis</i>]</p>	<p>Alstrup & Hawksworth 1990</p> <p>Brackel 2011</p> <p>Coppins 1988</p> <p>Diederich & Etayo 2000</p> <p>Etayo & Diederich 1996b</p> <p>Etayo & Sancho 2008</p> <p>Kondratyuk & Galloway 1995a</p> <p>Kondratyuk & Galloway 1995b</p> <p>Kondratyuk et al. 1994</p> <p>Zhuang 2000</p>		
Hyaloscyphaceae				
<i>Calycina</i>	ucrainica (S. Y. Kondr.) S. Y. Kondr.: on <i>Cladonia</i>	Kondratyuk & Galloway 1995a Oksner 2010		
<i>Lachnella</i>	tetraspora (Henn.) Vouaux: on <i>Physcia integrata</i>	Clauzade et al. 1989 Vouaux 1914		

<i>Pezizella</i> auct.	epithallina (W. Phillips & Plowr.) Sacc.: on <i>Peltigera stictae</i> Etayo: on <i>Sticta</i>	Etayo 2002a Hawksworth 1980b		
<i>Polydesmia</i>	lichenis Huhtinen & R. Sant.: on <i>Peltigera</i>	Huhtinen & Santesson 1997		
<i>Protounguicularia</i>	fasciculata (Etayo) Etayo: on <i>Ramalina stenospora</i> nephromatis (Zhurb. & Zavarzin) Huhtinen, D. Hawksw. & Ihlen: on <i>Nephroma</i>	Etayo 2010b Etayo & Triebel 2010 Huhtinen et al. 2008 Zhurbenko 2007a		
Incertae sedis				
<i>Cecidioskyttea</i>	osorioi Etayo: on <i>Concamerella fistulosa</i>	Etayo & Osorio 2004		
<i>Chloroepilichen</i>	rolfii Etayo: on <i>Lobaria</i>	Etayo 2010b		
<i>Echinodiscus</i>	kozhevnikovii Zhurb.: on <i>Cetraria lesdainii (Vouaux) Etayo & Diederich: on <i>Lecania</i></i>	Etayo & Diederich 2000 Zhurbenko 2009a		
<i>Geltingia</i>	associata (Th. Fr.) Alstrup & D. Hawksw.: on <i>Ochrolechia</i> , <i>Pertusaria</i> and <i>Thamnolia</i>	Alstrup & Hawksworth 1990 Diederich et al. 2010		
<i>Hyalopeziza</i>	rapax Huhtinen: on <i>Pseudocyphellaria</i>	Huhtinen et al. 2008		
<i>Llimoniella</i>	acarosporicola (Kocourk. & K. Knudsen) Diederich & Ertz: on <i>Acarospora socialis</i> adnata Hafellner & Nav.-Ros.: on <i>Placidium cinnabarinae</i> Pérez-Ortega, Etayo & T. Sprib.: on <i>Ramboldia cinnabarina</i> fuscatae Hafellner & Obermayer: on <i>Acarospora fuscata</i> groenlandiae (Alstrup & D, Hawksw.) Triebel & Hafellner: on <i>Caloplaca</i> and <i>Fulgensia</i> heppiae (Nav.-Ros., Hladun & Llimona) Diederich & Ertz: on <i>Heppia muralicola</i> Halici: on <i>Lecanora muralis</i> (probably belongs to <i>Unguiculariopsis</i>) pertusariae Diederich & Etayo: on	Diederich & Etayo 2000 Diederich et al. 2010 Etayo 2010b Pérez-Ortega et al. 2011		

	<p><i>Pertusaria glaucomela</i> and <i>P. ophthamiza</i></p> <p>phaeophysciae Diederich, Ertz & Etayo: on <i>Phaeophyscia</i></p> <p>placomaroneae Etayo & Diederich: on <i>Placomaronea cnadelarioides</i></p> <p>placopsidis Diederich & Fryday: on <i>Placopsis</i></p> <p>pyrenulae Diederich & Etayo: on <i>Pyrenula</i></p> <p>ramalinae (Müll. Arg.) Etayo & Diederich: on <i>Ramalina celastri</i> and <i>R. unilateralis</i></p> <p>terricola (Arnold) M. Schultz, Diederich & Ertz: on <i>Epiphloea byssina</i></p> <p>scabridula (Müll. Arg.) Nav.-Ros. & Hafellner: on <i>Acarospora nodulosa</i> and <i>A. placodiiformis</i></p> <p>vinosa (Holien & Triebel) Diederich & Etayo: on <i>Ochrolechia</i> and <i>Pertusaria</i> cf. <i>borealis</i></p>			
<i>Phaeopyxis</i>	<p>australis Rambold & Triebel: on <i>Paraporpidia</i></p> <p>muscigenae Alstrup & E. S. Hansen: on <i>Physconia</i></p> <p>punctum (A. Massal.) Rambold, Triebel & Coppins: on <i>Cladonia</i></p> <p>varia Coppins, Rambold & Triebel: on <i>Trapeliopsis</i></p>	Alstrup & Hansen 2001 Rambold & Triebel 1990		
<i>Pleoscutula</i>	<p>arsenii Vouaux: on <i>Heterodermia</i></p> <p>hypotrachynae Etayo & Diederich: on <i>Hypotrachyna</i></p>	Etayo 2002a Hafellner 1982b		
<i>Rhymbocarpus</i>	<p>aggregatus Etayo & Diederich: on <i>Buellia griseovirens</i></p> <p>boomii Etayo & Diederich: on <i>Dirina ceratoniae</i></p> <p>cruciatus (Sherwood, D. Hawksw. &</p>	Diederich & Etayo 2000 Diederich et al. 2010 Etayo & Diederich 2011		

	<p>Coppins) Etayo & Diederich: on <i>Diploicia canescens</i></p> <p>ericetorum (Körb.) Etayo, Diederich & Ertz: on <i>Dibaeis baeomyces</i></p> <p>fuscoatrae (Hafellner) Diederich & Etayo: on <i>Lecidea fuscoatra</i></p> <p>geographici (J. Steiner) Vouaux: on <i>Rhizocarpon</i></p> <p>makarovae Diederich & Etayo: on <i>Porpidia neglectus</i> (Vain.) Diederich & Etayo: on the <i>Lepraria neglecta</i> group</p> <p>pertusariae Diederich, Zhurb. & Etayo: on <i>Pertusaria panyrga</i></p> <p>pubescens (Etayo & Diederich) Diederich & Etayo: on <i>Lepraria</i></p> <p>roccellae (Etayo, Paz-Bermúdez & Diederich) Etayo, Diederich & Ertz: on <i>Roccella</i></p> <p>stereocaulorum (Alstrup & D. Hawksw.) Etayo & Diederich: on <i>Stereocaulon</i></p>			
<i>Skyttea</i>	<p>anziaae Etayo & Diederich: on <i>Anzia arenicola</i> Alstrup & E. S. Hansen: probably not a <i>Skyttea</i> and not lichenicolous</p> <p>buelliae Sherwood, D. Hawksw. & Coppins: on <i>Buellia punctata</i></p> <p>caesii Diederich & Etayo: on <i>Mycoblastus</i> (incl. <i>M. caesius</i>)</p> <p>carbenea Diederich & Etayo: on <i>Carbonea montevidensis</i></p> <p>cismonicae Hafellner: on <i>Loxospora dacampiae</i> Zhurb.: on <i>Dacampia hookeri</i></p> <p>elachistophora (Nyl.) Sherwood & D. Hawksw.: on cf. <i>Tylothallis biformigera</i></p> <p>fusispora Sherwood, D. Hawksw. & Coppins:</p>	<p>Alstrup & Hansen 2001 Diederich & Etayo 2000 Diederich & Etayo 2004 Etayo 2002a Etayo 2010c Etayo & Sancho 2008 Hafellner 2000 Navarro-Rosinès & Muñiz 2009</p>	<p>nitschkei: Culture obtained by Crittenden et al. (1995)</p>	

on *Ochrolechia*

gossypina Etayo: on *Phlyctis argena*

gregaria Sherwood, D. Hawksw. & Coppins:
on *Mycoblastus fucatus*

hawksworthii Diederich: on *Verrucaria*

heterochroae Nav.-Ros. & Muñiz: on
Pertusaria heterochroa

lecanorae Diederich & Etayo: on *Lecanora*

mayrhoferi Diederich & Etayo: on
Pertusaria melanospora

megalosporae Etayo & Diederich: on
Megalospora tuberculosa

nitschkei (Körb.) Sherwood, D. Hawksw. &
Coppins: on *Thelotrema lepadinum*

pertusariicola Diederich & Etayo: on
corticolous *Pertusaria*

pyrenulae Diederich, Etayo & Coppins: on
Pyrenula

radiatilis (Tuck.) R. Sant., Etayo &
Diederich: on cf. *Loxospora pustulata*

richardsonii Iturr. & D. Hawksw.: on an
unidentified lichen

spinosa D. Hawksw. & Coppins: on
Verrucaria nigrescens

tavaresae R. Sant., Etayo & Diederich: on
Pyrrhospora cf. *quernea*

tephromelarum Kalb & Hafellner: on
Tephromela

thelotrematis Diederich & Etayo: on
Thelotrema lepadinum

violacea Etayo: on *Tephromela*

viridis D. Hawksw. & Coppins: on cf.
Micarea denigrata

<i>Skyttella</i>	mulleri (Willey) D. Hawksw. & R. Sant.: on <i>Peltigera</i>	Hawksworth & Santesson 1988		
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ASCOMYCOTA				
Phyllachorales				
Phyllachoraceae				
<i>Lichenochora</i>	acutispora Etayo: on <i>Fuscopannaria magellanica</i> aipoliae Etayo, Nav.-Ros. & Coppins: on <i>Physcia aipolia</i> aprica Hafellner & Nik. Hoffm.: on <i>Aspicilia</i> atrans Halici, K. Knudsen & Candan: on <i>Psora decipiens</i> bellemerei Nav.-Ros., Cl. Roux & Diederich: on <i>Menegazzia</i> clauzadei Nav.-Ros., Cl. Roux & Llimona: on <i>Squamarina</i> coarctatae (B. de Lesd.) Hafellner & F. Berger: on <i>Trapelia</i> collematum Nik. Hoffm. & Hafellner: on <i>Collema ceraniscum</i> constrictella (Müll. Arg.) Hafellner: on <i>Fulgensia bracteata</i> coppinsii Etayo & Nav.-Ros.: on <i>Protopannaria pezizoides</i> elegantis Hafellner: on <i>Xanthoria elegans</i>	Aptroot et al. 1997 Calatayud et al. 2000 Etayo 2010c Etayo 2011 Etayo & Navarro-Rosinés 2008 Etayo & Sancho 2008 Hafellner 1989 Hafellner & Berger 2000 Hoffmann & Hafellner 2000 Navarro-Rosinés et al. 1994 Navarro-Rosinés et al. 1998a Navarro-Rosinés et al. 1998c Navarro-Rosinés & Etayo 2001 Navrotskaya et al. 1996 Roux & Triebel 1994 Triebel et al. 1991		

epidesertorum Nav.-Ros.: on *Fulgensia desertorum*
epifulgens Nav.-Ros. & Cl. Roux: on *Fulgensia fulgens*
epimarmorata Nav.-Ros.: on *Caloplaca marmorata*
epinashii Nav.-Ros. & Etayo: on *Caloplaca nashii*
gahavisukae Diederich: on ?*Graphis*
galligena R. Sant. & Hafellner: on *Physcia*
heppiae Cl. Roux: on *Heppia lutosa*
hyperphysciae Etayo: on *Hyperphyscia adglutinata*
inconspicua Hafellner: on *Mycobilimbia berengeriana*
lecidellae Boqueras & Nav.-Ros.: on *Lecidella elaeochroma*
lepidiotae (Anzi) Etayo & Nav.-Ros.: on *Fuscopannaria praetermissa*
mediterraneae Calat., Nav.-Ros. & E. Calvo: on *Fuscopannaria mediterranea*
monegrina Etayo: on terricolous *Polyblastia*
obscuroides (Linds.) Triebel & Rambold: on *Phaeophyscia*, more rarely *Physcia*
paucispora Etayo & Nav.-Ros.: on *Bilimbia sabuletorum*
polycoccoides Hafellner & R. Sant.: on *Physcia tribacia*
pyrenodesmiae Nav.-Ros. & Cl. Roux: on *Caloplaca* cf. *variabilis*
sinapispermae Etayo & Nav.-Ros.: on *Caloplaca sinapisperma*
thorii Zhurb.: on *Aspicilia moenium*

	verrucicola (Wedd.) Nik. Hoffm. & Hafellner: on <i>Aspicilia calcarea</i> , <i>A. cinerea</i> and <i>A. contorta</i> wasseri S.Y. Kondr.: on <i>Caloplaca</i> weillii (Werner) Hafellner & R. Sant.: on <i>Physconia</i> xanthoriae Triebel & Rambold: on <i>Xanthoria elegans</i> (and <i>Caloplaca</i> ?)			
Trichosphaeriales				
Trichosphaeriaceae				
<i>Trichosphaeria</i>	lichenum P. Karst. & Hariot: on <i>Peltigera</i>	Clauzade et al. 1989 Hawksworth 1980b		
Xylariales				
Hyponectriaceae				
<i>Charonectria</i>	amabilis Lowen & D. Hawksw.: on <i>Phaeorrhiza</i>	Rossmann et al. 1999		
Xylariaceae				
<i>Anthostomella</i>	apogyra (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; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Hypocreales				
Bionectriaceae				
<i>Atronectria</i>	magellanica Etayo: on <i>Pseudocyphellaria</i> and <i>Nephroma</i>	Etayo & Sancho 2008		

<i>Globonectria</i>	cochensis Etayo: on <i>Lobaria pallida</i>	Etayo 2002a		
<i>Nectriopsis</i>	<p>Nectria brutia Diederich & Puntillo: on <i>Collema</i></p> <p>cladoniicola M. S. Cole & D. Hawksw.: on <i>Cladonia</i></p> <p>coccocarpiae Diederich: on <i>Coccocarpia</i></p> <p>collematis Diederich: on <i>Collema</i></p> <p>guamuesii Etayo: on <i>Sticta</i></p> <p>hirta Etayo: on <i>Pertusaria albescens</i> and <i>P. pertusa</i></p> <p>heterodermiae Etayo: on <i>Heterodermia</i></p> <p>hirta Etayo: on <i>Pertusaria</i></p> <p>indigens (Arnold) Diederich & Schroers: on perithecioid lichens, often near water</p> <p>lecanodes (Ces.) Diederich & 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>leptogii Diederich: on <i>Leptogium</i></p> <p>lichenophila (Speg.) Etayo: on <i>Heterodermia</i></p> <p>micareae Diederich, van den Boom & Ernst: on <i>Micarea</i></p> <p>mindoensis (Petrak) (Petr.) Samuels: facultative lichenicolous on <i>Coenogonium</i></p> <p>peruvianus Etayo & R. Sant.: on <i>Dictyonema</i> and <i>Coccocarpia</i></p> <p>physciicola D. Hawksw. & Earl.-Benn.: on <i>Physcia stellaris</i></p> <p>porinicola Samuels: on foliicolous <i>Porina</i></p> <p>silvaustralis Etayo: on <i>Pseudocyphellaria</i></p> <p>tatrensis (Alstrup) Lisická & Alstrup: on <i>Thelidium</i></p>	<p>Alstrup 1996</p> <p>Aptroot et al. 1997</p> <p>Cole & Hawksworth 2001</p> <p>Diederich & Puntillo 1995</p> <p>Earland-Bennett et al. 2006</p> <p>Etayo 2002a</p> <p>Etayo 2010a</p> <p>Etayo & Sancho 2008</p> <p>Matzer 1996</p> <p>Samuels 1988</p> <p>Sérusiaux et al. 1999</p>	<p>lecanodes: ATCC MYA-3179</p> <p>lecanodes: CBS 102482</p>	

<i>Ovicuculispora</i>	<p>macrospora Etayo: on sterile saxicolous crust (Gomphillaceae?)</p> <p>parmeliae (Berk. & 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>parmeliae: ATCC 200561</p> <p>parmeliae: ATCC 200825</p>	<p>parmeliae (ATCC 200561): nrSSU: AF289657</p>
<i>Paranectria</i>	<p>affinis (Grev.) Sacc.: on <i>Ephebe pubescens</i></p> <p>alstrupii Zhurb.: on <i>Psoroma hypnorum</i></p> <p>oropensis (Rabenh.) D. Hawksw. & Piroz.: on various lichens</p> <p>superba D. Hawksw.: on <i>Peltigera</i></p>	<p>Clauzade et al. 1989</p> <p>Hawksworth 1982a</p> <p>Rossmann et al. 1999</p> <p>Zhurbenko 2009d</p>	<p>oropensis: CBS 115018</p>	
<i>Pronectria</i>	<p>angulospora Etayo: on <i>Heterodermia</i></p> <p>casaresii Etayo: on <i>Evernia prunastri</i></p> <p>collematis Etayo & Brackel: on <i>Collema</i></p> <p>dealbans (Müll. Arg.) Etayo & Breuss: on <i>Endocarpon</i></p> <p>dillmaniae Zhurb.: on <i>Catapyrenium cinereum</i></p> <p>echinulata Lowen: on <i>Physcia</i></p> <p>erythrinella (Nyl.) Lowen: on <i>Peltigera</i></p> <p>fissuriprodiens Etayo: on <i>Lobaria</i></p> <p>fragmospora Etayo: on <i>Usnea</i></p> <p>hymeniicola Etayo: on <i>Collema</i></p> <p>invisibilis Etayo: on <i>Nephroma antarcticum</i></p> <p>lecideicola Zhurb.: on <i>Lecidea ramulosa</i></p> <p>leptogii Etayo: on <i>Leptogium</i></p> <p>lichenicola (Ces.) Clem.: on <i>Peltigera</i></p> <p>microspora Etayo: on <i>Lobaria pallida</i></p> <p>minuta Motiej. & Kukwa: on <i>Cladonia</i> subg. <i>Cladina</i></p> <p>occulta Etayo: on <i>Usnea</i></p> <p>oligospora Lowen & Rogersen: on <i>Punctelia</i></p>	<p>Brackel & Etayo 2010</p> <p>Etayo 1998</p> <p>Etayo 2001</p> <p>Etayo 2002a</p> <p>Etayo 2010b</p> <p>Etayo 2010c</p> <p>Etayo & Breuss 1996</p> <p>Etayo & Diederich 1996b</p> <p>Etayo & Sancho 2008</p> <p>Etayo & Triebel 2010</p> <p>López de Silanes et al. 2009</p> <p>Lowen 1995</p> <p>Lowen & Diederich 1990</p> <p>Lowen & Hawksworth 1986</p> <p>Motiejunaite & Kukwa 2008</p> <p>Rossmann et al. 1999</p> <p>Zhurbenko 2007b</p> <p>Zhurbenko 2009d</p> <p>Zhurbenko & Alstrup 2004</p> <p>Zhurbenko et al. 2005</p>	<p>oligospora: Culture RL929-92 obtained by Lowen (1995)</p> <p>robergei: CBS 128021</p> <p>santessonii: ATCC 62531 (listed as <i>Nectriella santessonii</i>)</p>	

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

<i>Trichonectria</i>	<p>anisospora (Lowen) van den Boom & Diederich: on <i>Hypogymnia</i></p> <p>australis Etayo: on <i>Usnea</i></p> <p>cladoniicola (Alstrup & Svane) Alstrup: on <i>Cladonia</i></p> <p>hirta (A. Bolxam) Petch: on corticolous lichens</p> <p>hypotrachynae Etayo: on <i>Hypotrachyna</i></p> <p>leptogiicola Etayo: on <i>Leptogium</i></p> <p>pertusariae Etayo & van den Boom: on <i>Pertusaria</i></p> <p>rubefaciens (Ellis & Everh.) Diederich & Schroers: on <i>Parmelia</i> s.lat. [anamorph: <i>Acremonium rhabdosporum</i>]</p> <p>setadpressa Etayo: on <i>Lobaria</i></p> <p>usneicola Etayo: on <i>Usnea</i></p>	<p>Alstrup & Svane 1998</p> <p>Etayo 2001</p> <p>Etayo 2002a</p> <p>Etayo & Sancho 2008</p> <p>Etayo & van den Boom 2005</p> <p>Sérusiaux et al. 1999</p> <p>Hawksworth 1978b</p> <p>Rossmann et al. 1999</p>	<p>rubefaciens (see anamorph <i>Acremonium rhabdosporum</i> under Anamorphic Ascomycota)</p>	
Ceratostomataceae				
<i>Sypastospora</i>	cladoniae Etayo: on <i>Cladonia convoluta</i>	Etayo 2008		
Clavicipitaceae				
<i>Neobarya</i>	<p>ciliaris Etayo: on <i>Heterodermia</i></p> <p>darwiniana Etayo: on <i>Nephroma antarcticum</i></p> <p>lichenophila (Ferd. & Winge) Lowen & Samuels: on <i>Cladonia</i></p> <p>peltigerae Lowen, Boqueras & Gomez-Bolea: on <i>Peltigera</i></p> <p>usneae Etayo: on <i>Usnea</i></p>	<p>Candoussau et al. 2007</p> <p>Etayo 2002a</p> <p>Etayo & Sancho 2008</p>		
Nectriaceae				
<i>Xenonectriella</i>	<p>aurantiaca Etayo: on <i>Pseudocyphellaria</i></p> <p>humilis Etayo: on <i>Pseudocyphellaria</i></p> <p>leptaleae (J. Steiner) Rossmann & Lowen: on</p>	<p>Etayo 2002a</p> <p>Etayo & Sancho 2008</p> <p>Etayo & Triebel 2010</p> <p>Rossmann et al. 1999</p>		

	<p><i>Physcia</i> and <i>Physconia</i></p> <p>leptaleoides (Etayo) Etayo: on <i>Leptogium</i></p> <p>lutescens (Rehm) Weese: on <i>Solorina</i></p> <p>ornamentata (D. Hawksw.) Rossman: on <i>Peltigera</i></p> <p>rosea Etayo: on <i>Pannaria</i></p> <p>streimanii (S. Y. Kondr., Coppins & D. J. Galloway) Rossman: on <i>Lobaria</i> and <i>Sticta</i></p>			
Niessliaceae				
<i>Niesslia</i>	<p>cladoniicola D. Hawksw. & W. Gams: on <i>Cladonia</i></p> <p>globospora Etayo: on <i>Dictyonema</i></p> <p>kununguakii Alstrup & E. S. Hansen: on <i>Arthrorhaphis alpina</i></p> <p>lobariae Etayo & Diederich: on <i>Lobaria</i></p> <p>peltigericola (D. Hawksw.) Etayo: on <i>Peltigera</i></p> <p>pseudocyphellariae Etayo & Diederich: on <i>Pseudocyphellaria</i></p> <p>robusta Tretiach: on <i>Tephromela grumosa</i></p> <p>schyzospora Etayo: on <i>Hypotrachyna</i></p> <p>stictarum (Nannf. & R. Sant.) R. Sant. & Tretiach: on <i>Sticta</i></p> <p>tatjanae (S. Y. Kondr.) Etayo: on <i>Pseudocyphellaria</i></p> <p>tetrahedrospora Etayo: on <i>Dichosporidium</i></p> <p>yaganae Etayo: on <i>Nephroma antarcticum</i></p>	<p>Alstrup & Hansen 2001</p> <p>Etayo 2000</p> <p>Etayo 2002a</p> <p>Etayo & Diederich 1996b</p> <p>Etayo & Sancho 2008</p> <p>Hawksworth 1975b</p> <p>Hawksworth 1979a</p> <p>Tretiach 2002</p>	cladoniicola : CBS 960.73	
Incertae sedis				
<i>Roselliniella</i>	<p>africana Diederich: on <i>Usnea</i></p> <p>atlantica Matzer & Hafellner: on <i>Xanthoparmelia</i>, <i>Hypotrachyna</i> and <i>Platismatia</i></p>	<p>Aptroot et al. 1997</p> <p>Etayo 2002a</p> <p>Hawksworth & Miadlikowska 1997a</p> <p>Hawksworth et al. 2010</p>		<p>atlantica: nrLSU: GQ888763</p> <p>R. sp. (DLH 2009a): nrLSU: GQ888764</p>

	<p>cladoniae (Anzi) Matzer & Hafellner: on <i>Cladonia</i></p> <p>coccocarpiae (Pat.) Matzer & R. Sant.: on <i>Degelia</i></p> <p>epiphylla Matzer & Hafellner: on foliicolous <i>Sporopodium</i></p> <p>eriodermicola Matzer & R. Sant.: on <i>Erioderma tomentosum</i></p> <p>euparmeliicola Millanes & D. Hawksw.: on <i>Parmelia</i> s.s.</p> <p>heterodeae Matzer & Hafellner: on <i>Heterodea muelleri</i></p> <p>microthelia (Wallr.) Nik. Hoffm. & Hafellner: on <i>Trapelia</i></p> <p>nephromatis (Crouan) Matzer & Hafellner: on <i>Nephroma</i></p> <p>oxyspora Matzer & R. Sant.: on <i>Coccocarpia</i></p> <p>pannariae Matzer & Hafellner: on <i>Protopannaria pzizoides</i></p> <p>papuana Diederich: on <i>Usnea</i></p> <p>peltigericola D. Hawksw. & Miadl.: on <i>Peltigera</i></p> <p>ramirezii Etayo: on <i>Lobaria</i></p> <p>stereocaulorum Zhurb., Kukwa & Oset: on <i>Stereocaulon</i></p> <p>stictae Etayo: on <i>Sticta</i></p>	<p>Hoffmann & Hafellner 2000 Matzer & Hafellner 1990 Zhurbenko et al. 2009</p>		
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	<p style="text-align: center;">Species (lichenicolous fungi in bold; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i>)</p>	<p style="text-align: center;">Significant literature</p>	<p style="text-align: center;">Cultures (with accession numbers when known; culture collection links)</p>	<p style="text-align: center;">Sequences (with accession numbers)</p>
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ASCOMYCOTA				
Coniochaetales				
Coniochaetaceae				
<i>Coniochaeta</i>	<i>ligniaria</i> (Grev.) Masee: facultative lichenicolous on <i>Diploschistes diacapsis</i>	Etayo 2008		
Sordariales				
Chaetosphaeriaceae				
<i>Melanopsamma</i>	lettauiana (Keissl.) Vouaux: on saxicolous, crustose lichens	Clauzade et al. 1989		
Nitschkiaceae				
<i>Acanthonitschkea</i>	peltigericola (Alstrup & Olech) O. E. Erikss. & R. Sant.: on <i>Peltigera</i>	Alstrup & Olech 1993		
<i>Lasiosphaeriopsis</i>	cephalodiorum (Rostr.) Alstrup: on <i>Placopsis</i> christiansenii Alstrup & D. Hawksw.: on <i>Porpidia tuberculosa</i> [=? <i>L. supersparsa</i>] lecanorae Pérez-Ortega & Halici: on <i>Lecanora polytropa</i> pilophori Zhurb. & Triebel: on <i>Pilophorus</i> salisburyi D. Hawksw. & Sivan.: on <i>Peltigera</i> stereocaulicola (Linds.) O. E. Erikss. & R. Sant.: on <i>Stereocaulon</i> supersparsa (Zopf) Triebel: on <i>Porpidia</i>	Alstrup et al. 1994 Alstrup & Hawksworth 1990 Eriksson & Santesson 1986 Hawksworth 1980b Pérez-Ortega & Halici 2008 Triebel 1989 Zhurbenko & Triebel 2005		
<i>Rhagadostoma</i>	boleae Nav.-Ros. & Hladun: on <i>Lecania</i> brevisporum (Nav.-Ros. & Hladun) Nav.- Ros.: on <i>Peltigera</i> and <i>Solorina</i> collematum Etayo & Nav.-Ros.: on corrugatum Körb.: on lichenicola (De Not.) Keissl.: on pannariae Etayo: on <i>Pannaria</i> rugosum Nav.-Ros. & Hladun: on <i>Verrucaria</i>	Etayo & Sancho 2008 Navarro-Rosinés et al. 1999 Navarro-Rosinés & Hladun 1994		

	<i>nigrescens</i> verrucariarum Nav.-Ros. & Hladun: on <i>Verrucaria</i>			
<i>Rhagadostomella</i>	gregaria Etayo: on <i>Sticta</i>	Etayo 2002a		
Incertae sedis				
<i>Globosphaeria</i>	jamesii D. Hawksw.: on <i>Normandina</i> <i>pulchella</i>	Hawksworth 1990b		
<i>Reconditella</i>	physconiarum Hafellner & Matzer: on <i>Physconia distorta</i> and <i>P. venusta</i>	Matzer & Hafellner 1990		
<i>Roselliniomyces</i>	trichotheliorum Matzer & Hafellner: on foliicolous <i>Trichothelium</i>	Matzer & Hafellner 1990		
<i>Roselliniopsis</i>	gelidaria (Mudd) Matzer: on <i>Placopsis gelida</i> groedensis (Zopf) Matzer & Hafellner: on <i>Pertusaria lactea</i> palicei Etayo: on <i>Placopsis gelida</i> tartaricola (Leight.) Matzer: on <i>Ochrolechia</i> <i>tartarea</i> , <i>Pertusaria hemisphaerica</i> and <i>P.</i> <i>pupillaris</i> tropica Matzer & R. Sant.: on ? <i>Ochrolechia</i> ventosa (Rostr.) Alstrup: on <i>Placopsis gelida</i>	Alstrup et al. 1994 Etayo 2003 Matzer 1993 Matzer & Hafellner 1990		
<i>Teratoschaeta</i>	rondoniensis Bat. & O. M. Fonseca: on foliicolous <i>Mazosia</i> and other Roccellaceae [anamorph: <i>Ampullifera amoeboides</i>]	Matzer 1996		

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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; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Incertae sedis				

Arthrorhaphidaceae				
<i>Arthrorhaphis</i>	<p>aeruginosa R. Sant. & Tønsb.: on <i>Cladonia alpina</i> (Schaer.) R. Sant.: juvenile parasite on <i>Baeomyces rufus</i>, later an independent lichen</p> <p>arctoparmeliae Kocourk. & van den Boom: on <i>Arctoparmelia incurva</i></p> <p>citrinella (Ach.) Poelt: facultative juvenile parasite on <i>Baeomyces rufus</i>, later or from the beginning an independent lichen</p> <p>grisea Th. Fr.: juvenile parasite on <i>Baeomyces</i>, later an independent lichen</p> <p>muddii Obermayer: on <i>Dibaeis baeomyces</i></p> <p>olivaceae R. Sant. & Tønsb.: on <i>Melanohalea olivacea</i></p> <p>vaccillans Th. Fr.: juvenile parasite on <i>Baeomyces</i>, later an independent lichen</p>	<p>Kocourková & van den Boom 2005</p> <p>Obermayer 1994</p> <p>Santesson & Tønsberg 1994</p>		<p>citrinella (Ihlen 1372): nrLSU: AY853357; mtSSU: AY853309</p> <p>citrinella (Nordin 4905): nrLSU: AY853356; RPB1: DQ915592; mtSSU: AY853308</p> <p>citrinella (Lutzoni 97.06.29 ST2.1): nrLSU: AF279376; nrSSU: AF279375</p>
Dactylosporaceae				
<i>Dactylospora</i>	<p>acarospora (H. Magn.) Hafellner: on <i>Acarospora</i></p> <p>aeruginosa Hohlien & Ihlen: on various lichens</p> <p>allantoidea Alstrup & D. Hawksw.: on <i>Xanthoparmelia pulla</i></p> <p>amygdalariae Triebel: on <i>Amygdalaria</i></p> <p>aspiciliicola Alstrup & D. Hawksw.: on <i>Aspicilia</i></p> <p>athallina (Müll. Arg.) Hafellner: on <i>Baeomyces rufus</i></p> <p>attendenda (Nyl.) Arnold: on <i>Amygdalaria</i>, <i>Icmadophila</i>, <i>Pilophorus</i> and <i>Porpidia</i></p> <p>australis Triebel & Hertel: on <i>Lecidea</i>, <i>Paraporpidia</i>, <i>Poeltiaria</i>, <i>Poeltidea</i>,</p>	<p>Alstrup et al. 1994</p> <p>Alstrup & Hawksworth 1990</p> <p>Alstrup & Olech 1993</p> <p>Clauzade et al. 1989</p> <p>Etayo 1991</p> <p>Etayo 2010c</p> <p>Etayo & Sancho 2008</p> <p>Hafellner 1979</p> <p>Hafellner 1985b</p> <p>Hafellner & Mayrhofer 2007</p> <p>Hafellner et al. 2002</p> <p>Hawksworth 2003</p> <p>Ihlen et al. 2004</p> <p>Konratyuk & Galloway 1995c</p> <p>Olech & Alstrup 1996</p> <p>Sérusiaux & Wessels 1984</p> <p>Triebel 1989</p>	<p>lobariella: CBS 300.80</p> <p>parasitica: CBS 101579</p> <p>parasitica: Culture obtained by Crittenden et al. (1995)</p>	<p>lobariella (AFTOL-ID 2137, CBS 300.80): nrSSU: FJ176837; nrLSU: FJ176891</p>

Porpidia, Rimularia and *Tremolecia*

borealis Hohlien & Ihlen: on *Mycoblastus* and other lichens

cladonicola Alstrup & Olech: on *Cladonia*

davidii Hafellner & H. Mayrh.: on

Pseudocyphellaria

deminuta (Th. Fr.) Triebel: on *Amygdalaria*,

Bacidia, *Biatora*, *Lecanora*, *Lecidea*,

Lopadium, *Micarea*, *Mycobilimbia*,

Pannaria, *Protopannaria* and *Rinodina*

dobrowolskii Olech & Alstrup: on

Caloplaca saxicola

frigida Hafellner: on *Brigantiaea*

glaucomarioides ((Tuck.) Hafellner: on

Ochrolechia

hafellneriana Sérus.: on *Santessonia*

lagunebergii

homoclinella (Nyl.) Hafellner: on *Lecanora*

and *Tephromela*

inquilina (Tuck.) Hafellner: on corticolous

Pertusaria

inconspicua Etayo: on *Menegazzia*

lobariella (Nyl.) Hafellner: on *Lobaria*

microspora Etayo: on *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

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

	lentiginosa (Leight.) Müll. Arg.: on <i>Phaeographis dendritica</i> tribuloides (Tuck.) Müll. Arg. [= <i>Encephalographa anthracothecii</i> Diederich]: on <i>Anthracothecium</i> and <i>Pyrenula</i>			
Microcaliciaceae				
<i>Microcalicium</i>	arenarium (A. Massal.) Tibell: on <i>Psilolechia</i> conversum Tibell: on <i>Calicium</i> and <i>Chaenotheca</i> disseminatum (Ach.) Vain.: on <i>Calicium</i> and <i>Chaenotheca</i>	Clauzade et al. 1989 Hawksworth 1981 Tibell 1978		
Myxotrichaceae				
<i>Myxotrichum</i>	bicolor (Ehrenb.) Fr.: on <i>Usnea</i>	Hawksworth 1979a		
Obryzaceae				
<i>Obryzum</i>	corniculatum (Hoffm.) Wallr.: on <i>Leptogium</i> friesii (Keissl.) Nik. Hoffm. & Hafellner: on <i>Leptogium</i> striguloides Aptroot & Sipman: on <i>Agonimia vouauxii</i>	Aptroot & Sipman 2001 Hoffmann & Hafellner 2000		
Protothelenellaceae				
<i>Protothelenella</i>	pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i> santessonii H. Mayrh.: on <i>Cladonia</i>	Etayo & Sancho 2008 Mayrhofer 1987		
Strigulaceae				
<i>Strigula</i>	dichosporidii Etayo: on <i>Dichosporidium</i>	Etayo 2002		
Thelocarpaceae				
<i>Thelocarpon</i>	cyaneum Olech & Alstrup: on ' <i>Polyblastia</i> cf. <i>gothica</i> ' epibolum Nyl.: facultative lichenicolous on <i>Baeomyces</i> , <i>Lichenomphalia hudsoniana</i> ,	Olech & Alstrup 1990 Rambold & Triebel 1992		

	<p><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></p>			
Xanthopyreniaceae				
<i>Collemopsidium</i>	cephalodiorum (Triebel & Grube) Grube: on <i>Pilophorus cephalodiorum</i>	Grube 2005		
<i>Didymellopsis</i>	collematum (J. Steiner) Grube & Hafellner: on <i>Collema</i> latitans (Nyl.) Clem. & Shear: on <i>Gonohymenia</i> and <i>Lempholemma</i> perigena (Nyl.) Grube & Hafellner: on <i>Placidium squamulosum</i> pulposi (Zopf) Grube & Hafellner: on <i>Collema</i> and <i>Leptogium</i>	Grube & Hafellner 1990		
<i>Zwackhiomyces</i>	argentina (Räsänen) D. Hawksw. & V. Atienza: on <i>Acarospora</i> aspiciliae Halici & Candan: on <i>Aspicilia</i> berengerianus (Arnold) Grube & Triebel: on <i>Lecidea berengeriana</i> calcariae (Flagey) Hafellner & Nik. Hoffm.: on <i>Aspicilia</i> cervinae Calat., Triebel & Pérez-Ortega: on <i>Acarospora</i> cladoniae (C. W. Dodge) Diederich: on <i>Cladonia</i> coepulonus (Norman) Grube & R. Sant.: on <i>Caloplaca</i> and <i>Xanthoria elegans</i> diederichii D. Hawksw. & Iturr.: on <i>Cladonia</i>	Alstrup 1993a Alstrup & Olech 1993 Aptroot et al. 1997 Etayo 2010b Grube & Hafellner 1990 Harris 1995 Hawksworth & Atienza 1994 Hawksworth & Miadlikowska 1997a Hoffmann & Hafellner 2000 Konratyuk 1996b Miadlikowska & Alstrup 1995 Orange 2002 van den Boom 2010		

dispersus (Körb.) Triebel & Grube: on
Protoblastenia rupestris
echinulatus Brackel: on *Physconia*
euplocinus Hafellner, Grube & Egan: on
Speerschneidera euploca
heppiae van den Boom: on *Heppia arenacea*
inconspicuus Grube & Hafellner: on
Lecanora dispersa
kantvilasii S. Y. Kondr.: on *Parmotrema*
kiszkianus D. Hawksw. & Miadl.: on
Peltigera
lacustris (Arnold) Orange: on *Ionaspis*
lacustris
lecanorae (Stein) Nik. Hoffm. & Hafellner:
on *Lecanora*
lithoiceae (B. de Lesd.) Hafellner & V. John:
on *Verrucaria*
macrosporus Alstrup & Olech: on
Protopannaria
martinatianus (Arnold) Triebel & Grube: on
Porpidia
namibiensis Diederich & M. Schultz: on
Psorotichia
peltigerae Miadl. & Alstrup: on *Peltigera*
physciicola Alstrup: on *Physcia caesia*
rolfii (Etayo) Etayo: on *Candelina*
sipmanii Diederich & Zhurb.: on *Phaeorrhiza*
sareptana
socialis (Körb.) Cl. Roux: on *Clauzadea*,
perhaps also on *Bacidia bagliettoana*
solenopsorae van den Boom: on *Solenopsora*
holophaea
sphinctriniformis Grube & Hafellner: on

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

	<p><i>Stereocaulon</i> stictarum Etayo: on <i>Sticta</i> stroblii Hafellner: on <i>Menegazzia terebrata</i> suecicus (Kirschst.) Nordin: on <i>Ramalina</i> tulasnei M.S. Cole & D. Hawksw.: on <i>Xanthoparmelia</i> usneae Rabenh.: on <i>Usnea</i> usneae var. tetraspora Etayo & Osorio: on <i>Usnea</i> welwitschii Mont.: on <i>Sticta</i></p>			
<i>Epigloea</i>	urosperma Döbbeler: on <i>Placynthiella</i>	Döbbeler 1994		
<i>Gyrophthorus</i>	crustulosae (Creveld) Hafellner & Sancho: on <i>Umbilicaria</i> gracilis Nik. Hoffm. & Hafellner: on <i>Umbilicaria</i> perforans Hafellner & Sancho: on <i>Umbilicaria</i>	Hafellner & Sancho 1990 Hoffman & Hafellner 2000		
<i>Hymenobia</i>	insidiosa Nyl.: on <i>Lecidea</i>	Eriksson & Hawksworth 1991 Triebel 1989 (as <i>Hymenobiella</i> <i>aporea</i>)		
<i>Hypotrachynicola</i>	rubra Etayo: on <i>Hypotrachyna</i>	Etayo 2002		
<i>Neolamya</i>	peltigerae (Mont.) Theiss. & Syd.: on <i>Peltigera</i> (mainly <i>P. didactyla</i>) xanthoparmeliae Kocourk.: on <i>Xanthoparmelia conspersa</i>	Keissler 1930 Kocourková 2009		
<i>Pleosphaeria</i>	lichenothricis Henssen: on <i>Lichenothrix</i> <i>ridlei</i>	Henssen 1964		
<i>Rhynchomeliola</i>	lichenicola Henssen & Kantvilas: on <i>Wawea</i>	Henssen & Kantvilas 1985		
<i>Sarcoexcipula</i>	pannariae Etayo: on <i>Pannaria pallida</i>	Etayo & Sancho 2008		
<i>Sphaeria</i>	sociella Nyl.: on <i>Trapelia coarctata</i>	Triebel 1989		
<i>Stellifraga</i>	cladoniicola Alstrup & Olech: on <i>Cladonia</i>	Alstrup & Olech 1993		
<i>Viridiannula</i>	pertusariae Etayo: on <i>Pertusaria pertusa</i>	Etayo 2002b		

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

	<p>= anamorph of <i>Teratoschaeta rondoniensis</i>] foliicola Deight.: on foliicolous lichens hippocrateacearum (Bat. & Caval.) D. Hawksw.: on foliicolous <i>Mazosia</i> and other lichens leonensis Deight.: on foliicolous lichens pirozynskii D. Hawksw.: on foliicolous lichens ugandensis Deight.: on foliicolous lichens</p>			
<i>Arborillus</i>	lilimona Munt.-Cvet. & Gómez-Bolea: on <i>Diploschistes</i>	Muntañola-Cvetkovic & Gómez-Bolea 1998		
<i>Ascochyta</i>	santessonii Alstrup & D. Hawksw.: on <i>Phaeophyscia sciastra</i> candelariellicola D. Hawksw. & Kalb: on <i>Candelariella aurella</i>	Alstrup & Hawksworth 1990 Hawksworth & Kalb 1992		
<i>Asteroglobulus</i>	giselae Brackel: on <i>Ramalina farinacea</i>	Brackel 2011		
<i>Asterophoma</i>	mazaediicola D. Hawksw.: on <i>Calicium</i>	Hawksworth 1981 Tibell 1991a		
<i>Bachmanniomyces</i>	pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i> santessonii Etayo: on <i>Sticta</i> uncialicola (Zopf) D. Hawksw.: on <i>Cladonia</i>	Etayo 2010b Etayo & Sancho 2008 Hawksworth 1981		
<i>Berkleasmium</i>	parmeliellae Etayo & Diederich: on <i>Parmeliella testacea</i>	Etayo & Diederich 1995		
<i>Briancoppinsia</i>	cytopora (Vouaux) Diederich, Ertz, Lawrey & van den Boom: on parmelioid lichens, <i>Lecanora conizaeoides</i> , <i>Cladonia</i> and <i>Pertusaria</i>	Diederich et al. 2011		
<i>Calongeomyces</i>	gibelluloides (D. Hawksw. & Etayo) D. Hawksw. & Etayo: on <i>Cladonia</i> and <i>Flavoparmelia caperata</i>	Hawksworth & Etayo 2010 Hawksworth & Etayo 2011		
<i>Carnegieispora</i>	rimeliae Etayo & F. Berger: on <i>Parmotrema</i>	Etayo & Berger 2009		
<i>Cephalosporiopsis</i>	epiparasitaster Alstrup: on	Alstrup 1997		

	<i>Chaenothecopsis parasitaster</i>			
<i>Chalara</i>	lichenicola M. S. Christ.: on <i>Cladonia</i> lobariae Etayo: on <i>Lobaria pulmonaria</i> pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i>	Christiansen 1993 Etayo & Diederich 1996b Etayo & Sancho 2008		
<i>Choreospora</i>	tibellii Constant. & R. Sant.: on foliicolous <i>?Echinoplaca</i>	Constantinescu & Santesson 1987		
<i>Cladoniicola</i>	irregularis Etayo: on <i>Diploschistes diacapsis</i> staurospora Diederich, van den Boom & Aptroot: on <i>Cladonia</i>	Diederich et al. 2002 ('2001') Etayo 2010c		
<i>Cladosporium</i>	arthoniae M. S. Christ. & D. Hawksw.: on corticolous lichens with <i>Trentepohlia</i> licheniphilum Heuchert & U. Braun: on <i>Pertusaria alpina</i>	Diederich 1989 Hawksworth 1979a Heuchert & Braun 2006		
<i>Clauzadeomyces</i>	verrucosus Diederich: on <i>Placopsis</i>	Diederich 1994		
<i>Codonmyces</i>	lecanorae Calat. & Etayo: on <i>Lecanora</i> <i>valesiaca</i>	Calatayud & Etayo 1999a		
<i>Coniambigua</i>	phaeographidis Etayo & Diederich: on <i>Phaeographis</i>	Etayo & Diederich 1995		
<i>Cornutispora</i>	ciliata Kalb: on various lichens herteliana Knoph: on <i>Lecidella</i> intermedia Punith. & D. Hawksw.: on <i>Ochrolechia</i> lichenicola D. Hawksw. & B. Sutton: on various lichens pittii D. Hawksw. & Punith.: on <i>Hypotrachyna</i> pyramidalis Etayo: on <i>Hypotrachyna</i> and <i>Parmotrema</i> triangularis 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	ciliata : CBS 111093	
<i>Corynespora</i>	laevistipitata (M. S. Cole & D. Hawksw.) Heuchert & U. Braun: on <i>Pertusaria</i>	Heuchert & Braun 2006		

	<i>ophthalmiza</i>			
<i>Deichmannia</i>	verrucosa Alstrup & D. Hawksw.: on <i>Diploschistes</i>	Alstrup & Hawksworth 1990		
<i>Dendrodochium</i>	subeffusum Ellis & Galw.: on <i>Physcia millegrana</i> and possibly other lichens	Hawksworth 1979a		
<i>Dictyophrynella</i>	bignoniacearum Bat. & Caval.: on foliicolous lichens	Hawksworth 1979a		
<i>Diederichia</i>	pseudeverniae (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	strigosum : CBS (4 records); MUCL; VKM; UPSC; IMI; ARS (NRRL)	
<i>Diplolaeviopsis</i>	ranula Giralt & D. Hawksw.: on <i>Lecanora strobilina</i> and <i>L. strobilinoidea</i>	Giralt & Hawksworth 1991		
<i>Ellisembia</i>	lichenicola Heuchert & U. Braun: on <i>Pertusaria</i> and <i>Physconia</i>	Heuchert & Braun 2006		
<i>Endophraggiella</i>	franconica Brackel & Markovskaja: on <i>Platismatia glauca</i> and <i>Hypogymnia physodes</i> hughesii D. Hawksw.: on <i>Lobaria pulmonaria</i>	Brackel & Markovskaja 2009 Hawksworth 1979a		
<i>Epaphroconidia</i>	hawksworthii Calat. & V. Atienza: on <i>Pertusaria pertusa</i>	Calatayud & Atienza 1995		
<i>Epicladonia</i>	lapponica Ihlen: on <i>Pleopsidium chlorophanum</i> sandstedei (Zopf) D. Hawksw.: on <i>Cladonia simplex</i> D. Hawksw.: on <i>Cladonia stenospora</i> (Harmand) D. Hawksw.: on <i>Cladonia</i>	Hawksworth 1981 Ihlen & Wedin 2005		
<i>Epicoccum</i>	<i>nigrum</i> Link: facultative lichenicolous over various lichens	David & Hawksworth 1995 Diederich 2004b	nigrum (syn. <i>E. purpurascens</i>): ACM; FRR; JCT; WAC; MUCL; URM; CCFC; CCM; VTT; LCP; DSMZ; DUM; ITCC; IFO; JCM; MAFF;	nigrum : 131 nucleotide sequences and 11 protein sequences in GenBank

			ICMP; VKM; BCRC; ARS (NRRL); NCAM	
<i>Everniicola</i>	flexispora D. Hawksw.: on <i>Evernia</i> and <i>Nephroma arcticum</i>	Hawksworth 1982a		
<i>Feltgeniomyces</i>	dichotomus Etayo & Calat.: on <i>Physcia luxemburgensis</i> Diederich: on <i>Lecidella physciae</i> Etayo & Breuss: on <i>Physcia uniseptatus</i> Diederich: on <i>Hypotrachyna</i>	Aptroot et al. 1997 Calatayud & Etayo 2001 Diederich 1990 Etayo & Breuss 1998		
<i>Fenestroconidia</i>	caloplacae Calat. & Etayo: on <i>Caloplaca</i>	Calatayud & Etayo 1999b		
<i>Fusarium</i>	peltigerae Westend.: on <i>Peltigera</i>	Hawksworth 1979a	F. sp.: ATCC 208869; ARS (NRRL) 26803	F. sp. (ATCC 208869): nrLSU: AF228360 ; nrSSU: AF289654
<i>Fusicladium</i>	<i>peltigericola</i> Crous & Diederich: isolated from <i>Peltigera</i> , possibly lichenicolous	Crous et al. 2011	peltigericola: CBS 128206	peltigericola: nrITS: HQ599579
<i>Gliocephalis</i>	pulchella (Penz. & Sacc.) D. Hawksw.: on <i>Sticta</i>	Hawksworth 1979a		
<i>Graphium</i>	aphthosae Alstrup & D. Hawksw.: on <i>Peltigera</i> samogiticum Motiej. & Alstrup: over <i>Sarcosagium</i> and <i>Verrucaria</i> , possibly algicolous	Alstrup & Hawksworth 1990 Motiejūnaitė & Alstrup 2006		
<i>Hainesia</i>	pertusariae Etayo & Diederich: on <i>Pertusaria</i> xanthoriae Brackel: on <i>Xanthoria</i>	Brackel 2009 Etayo & Diederich 1996a		
<i>Hansfordiellopsis</i>	[<i>elongata</i> D. Hawksw.: on <i>Porina</i> and other foliicolous lichens = anamorph of <i>Koordersiella deightonii</i>] [<i>lichenicola</i> (Bat. & Maia) Deight.: on foliicolous lichens = anamorph of <i>Koordersiella insectivora</i>] minuta D. Hawksw.: on foliicolous lichens tenuissima D. Hawksw.: on foliicolous lichens variegata D. Hawksw.: on foliicolous lichens,	Hawksworth 1979a		

	incl. <i>Bullatina aspidota</i>			
<i>Hawksworthiana</i>	peltigericola (D. Hawksw.) U. Braun: on <i>Peltigera</i>	Braun 1988 Hawksworth 1980a		
<i>Helicobolomyces</i>	[<i>lichenicola</i> Matzer: on <i>Porina</i> and <i>Trichothelium</i> = anamorph of <i>Arthonia cinnabarinula</i>]			
<i>Hobsoniopsis</i>	santessonii (Lowen & D. Hawksw.) D. Hawksw.: on <i>Peltigera</i> , mainly <i>P. scabrosa</i>	Lowen et al. 1986 Sikaroodi et al. 2001	santessonii : ATCC 200311	santessonii (ATCC 200311): nrSSU: AF289658
<i>Illosporium</i>	carneum Fr.: on <i>Peltigera</i> [= anamorph of several <i>Pronectria</i> species]	Hawksworth 1979a Sikaroodi et al. 2001	carneum : ATCC 201590	carneum (ATCC 201590): nrSSU: AF289655
<i>Illosporiopsis</i>	christiansenii B. L. Brady & D. Hawksw.: on various corticolous lichens	Lowen et al. 1986 Sikaroodi et al. 2001	christiansenii : ATCC 201109 christiansenii : Culture (as <i>Hobsonia christiansenii</i>) obtained by Crittenden et al. (1995)	christiansenii (ATCC 201109): nrSSU: AF289656
<i>Intralichen</i>	baccisporus D. Hawksw. & M. S. Cole: on <i>Caloplaca</i> and other lichens christiansenii (D. Hawksw.) D. Hawksw. & M. S. Cole: on <i>Candelariella</i> and other lichens lichenicola (M. S. Christ. & D. Hawksw.) D. Hawksw. & M. S. Cole: on <i>Candelariella</i> and other lichens lichenum (Diederich) D: Hawksw. & M. S. Cole: on various lichens	Diederich 1990 Hawksworth 1979a Hawksworth & Cole 2002	christiansenii : Cultures (as <i>Bispora christiansenii</i>) obtained by Hawksworth (1979) and Crittenden et al. (1995)	christiansenii (as <i>Bispora christiansenii</i> , IMI 227584): nrSSU: AM279680
<i>Kalchbrenneriella</i>	cyanescens (Kalchbr.) Diederich & M. S. Christ.: on <i>Usnea</i>	Diederich 2002		
<i>Karsteniomyces</i>	llimonae Boqueras & Diederich: on <i>Parmelina quercina</i> [<i>peltigeræ</i> (P. Karst.) D. Hawksw.: on <i>Peltigera</i> = anamorph of <i>Scutula miliaris</i>] tuberculosis Alstrup & D. Hawksw.: on <i>Peltigera leucophlebia</i>	Alstrup & Hawksworth 1990 Boqueras & Diederich 1993 Hawksworth 1980b Hawksworth 1981		

<i>Keissleriomyces</i>	sandstedeanus (Keissler) D. Hawksw.: on <i>Cladonia furcata</i>	Hawksworth 1981		
<i>Lambinonia</i>	strigulae (Elenkin & Woron.) Sérus. & Diederich: on foliicolous <i>Strigula</i>	Sérusiaux & Diederich 2005		
<i>Lawalreea</i>	lecanorae Diederich: on <i>Lecanora persimilis</i>	Diederich 1990		
<i>Leightoniomyces</i>	phillipsii (Berk. & Leight.) D. Hawksw. & B. Sutton: on <i>Steinia geophana</i> and <i>Thrombium epigaeum</i> , possibly algicolous	Hawksworth 1977a Hawksworth 1979a		
<i>Libertiella</i>	curvispora D. Hawksw. & Miadl.: on <i>Peltigera</i> didymospora D. Hawksw. & Miadl.: on <i>Peltigera</i> fennica Alstrup: on <i>Peltigera</i> leprariae Etayo & Diederich: on <i>Lepraria</i> malmedyensis Speg. & Roum.: on <i>Peltigera</i> obscurior Gerber: on <i>Brodoa intestiniformis</i>	Etayo & Diederich 1995 Hawksworth 1981 Hawksworth & Miadlikowska 1997a		
<i>Lichenobactridium</i>	pertusariae Diederich & Etayo: on <i>Pertusaria pertusa</i>	Etayo & Diederich 1995		
<i>Lichenocodium</i>	aeruginosum Diederich, M. Brand, van den Boom & Lawrey: on <i>Cladonia</i> cargillianum (Linds.) D. Hawksw.: on <i>Letharia</i> , <i>Parmotrema</i> , <i>Platismatia</i> , <i>Ramalina</i> and <i>Usnea</i> christiansenii M. S. Cole & D. Hawksw.: on <i>Nodobryoria abbreviata</i> echinosporum D. Hawksw.: on <i>Heterodea muelleri</i> edgewoodensis Alstrup & M. S. Cole: on <i>Parmelia sulcata</i> erodens M. S. Christ. & D. Hawksw.: on various lichens follmannii S. Y. Kondr. & D. J. Galloway: on <i>Lobaria pulmonaria</i>	Alstrup & Cole 1998 Christiansen 1956 Christiansen 1980 Cole & Hawksworth 2004 Diederich 1986 Hawksworth 1977b Hawksworth 1981 Kalb et al. 1995 Kondratyuk & Galloway 1995b Kondratyuk et al. 1994 Lawrey et al. 2011	aeruginosum : CBS 129239 erodens : Culture obtained by Crittenden et al. (1995) erodens : CBS 128028 erodens : CBS 128030 erodens : CBS 128704 lecanorae : Culture obtained by Crittenden et al. (1995) lecanorae : CBS 128024 sp. : CBS 129139 usneae : CBS 128020	aeruginosum : (CBS 129239, JL359-09): nrLSU: HQ174269 ; mtSSU: HQ174268 erodens : (JL363-09): nrLSU: HQ174267 ; mtSSU: HQ174266 lecanorae : (CBS 128024): nrLSU: HQ174263 ; mtSSU: HQ174262 usneae : (CBS 128020): nrLSU: HQ174265 ; mtSSU: HQ174264

	<p>laevisporum Kalb & Hafellner: on <i>Haematomma</i></p> <p>lecanorae (Jaap) D. Hawksw.: on various lichens</p> <p>lichenicola (P. Karst.) Petr. & Syd.: on <i>Physcia</i></p> <p>plectocarpoides S. Y. Kondr. & D. J. Galloway: on <i>Pseudocyphellaria</i></p> <p>pyxidatae (Oudem.) Petr. & Syd.: on <i>Cladonia</i></p> <p>reichlingii Diederich: on <i>Ramalina fraxinea</i></p> <p>usneae (Anzi) D. Hawksw.: on various lichens</p> <p>xanthoriae M. S. Christ.: on <i>Xanthoria</i>, 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></p>			
<p><i>Lichenodiplis</i></p>	<p>crespoae Pérez-Ortega & V. Atienza: on <i>Cyphelium notarisi</i></p> <p>dendrographae Diederich & van den Boom: on <i>Dendrographa</i></p> <p>fallaciosa (Hafellner & Kalb) Diederich: on <i>Buellia</i></p> <p>hawksworthii F. Berger & Diederich: on <i>Pertusaria</i></p> <p>lecanorae (Vouaux) Dyko & D. Hawksw.: on <i>Caloplaca</i>, <i>Lecanora</i> and other crustose lichens</p> <p>lecanoricola (M. S. Cole & D. Hawksw.) Diederich: on <i>Lecanora</i></p> <p>lichenicola Dyko & D. Hawksw.: on <i>Rinodina</i></p> <p>opegraphae (D. Hawksw.) Diederich: on <i>Opegrapha</i></p>	<p>Berger & Diederich 1996 Diederich 2003 Cole & Hawksworth 2001 Hawksworth 1981 Hawksworth & Dyko 1979 Kalb 1990 Knudsen & Kocourková 2009 Kondratyuk 1996a</p>		

	pertusariicola (Nyl.) Diederich: on <i>Pertusaria</i> poeltii S. Y. Kondr. & D. Hawksw.: on <i>Xanthoria parietina</i> rinodinicola Kocourk. & K. Knudsen: on <i>Rinodina</i>			
<i>Lichenodiplisiella</i>	makarevichiae S. Y. Kondr. & Kudratov: on <i>Teloschistes brevior</i>	Kondratyuk et al. 2002		
<i>Lichenohendersonia</i>	squamarinae Calat. & Etayo: on <i>Squamarina</i> uniseptata Etayo & Calatayud: on <i>Parmelina</i> varians Calat. & Etayo: on <i>Rhizoplaca</i>	Calatayud & Etayo 2001		
<i>Lichenophoma</i>	haematommatis Keissler: on <i>Haematomma</i>	Hawksworth 1981		
<i>Lichenopuccinia</i>	poeltii D. Hawksw. & Hafellner: on <i>Parmelia</i>	Hawksworth 1984		
<i>Lichenostella</i>	hypotrachynae Etayo & Calatayud: on <i>Hypotrachyna</i>	Calatayud & Etayo 1999a		
<i>Lichenosticta</i>	alcicorniaria (Lindsay) D. Hawksw.: on <i>Cladonia</i>	Hawksworth 1981		
<i>Microsphaeropsis</i>	lichenicola Etayo: on <i>Pannaria</i>	Etayo & Sancho 2008		
<i>Milospium</i>	<i>desloover</i> Diederich & Sérus.: probably not lichenicolous, but lichenized graphideorum (Nyl.) D. Hawksw.: lichenicolous on lichens with <i>Trentepohlia</i> , sometimes an independent lichen lacoizquetae Etayo & Diederich: on <i>Cladonia parasitica</i> <i>planorbis</i> Aptroot & Sipman: probably not lichenicolous, but lichenized	Aptroot & Sipman 2001 Etayo & Diederich 1996a Hawksworth 1975a Hawksworth 1979a Sérusiaux et al. 1999		
<i>Minutoexcipula</i>	beaglei Etayo: on <i>Lecanora</i> calatayudii V. Atienza: on <i>Hypogymnia</i> mariana V. Atienza: on <i>Pertusaria</i> tephromelae V. Atienza, Etayo & Pérez-	Atienza 2002 Atienza & Hawksworth 1994 Atienza et al. 2009 Etayo & Sancho 2008 Hafellner 1994a		

	Ortega: on <i>Tephromela</i> tuckerae V. Atienza & D. Hawksw.: on corticolous <i>Pertusaria</i> tuerkii Hafellner: on <i>Pertusaria glomerata</i>			
<i>Minutophoma</i>	chrysophthalmae D. Hawksw.: on <i>Chrysothrix chrysophthalmae</i>	Hawksworth 1981		
<i>Mixtoconidium</i>	canariense Etayo: on <i>Ramalina</i>	Etayo 1995a		
<i>Monocillium</i>	[Sp.: on <i>Cladonia</i> = anamorph of <i>Nielslia cladoniicola</i>]	Hawksworth 1979		
<i>Monodictys</i>	anaptychia (Lindau) D. D. Hawksw.: on <i>Anaptychia</i> cellulosa S. Hughes [?= <i>lepraria</i> (Berk.) M. B. Ellis]: on various crustose, corticolous lichens epilepraria Kukwa & Diederich: on <i>Lepraria</i>	Etayo & Diederich 1996b Hawksworth 1975a Hawksworth 1979a	lepraria : UAMH; DUM lepraria : CBS 533.77	
<i>Nigromacula</i>	uniseptata (D. Hawksw.) D. Hawksw.: on <i>Hypotrachyna</i>	Etayo 2002		
<i>Nigropuncta</i>	groenlandica Alstrup: on crustose lichen rugulosa D. Hawksw.: on <i>Bellemerea</i>	Alstrup 1993a Hawksworth 1981 Hawksworth & Poelt 1986		
<i>Patriciomyces</i>	valentinianus D. Hawksw.: on <i>Physcia</i>	Cole & Hawksworth 2001		
<i>Phaeoseptoria</i>	peltigerae Punith. & Spooner: on <i>Peltigera horizontalis</i>	Punithalingam & Spooner 1997		
<i>Phaeosporobolus</i>	alpinus R. Sant., Alstrup & D. Hawksw.: on <i>Ochrolechia</i> and other lichens fellhanerae R. C. Harris & Lendemer: on <i>Fellhanera</i> minutus Etayo: on <i>Coccotrema</i> and <i>Pertusaria</i> usneae D. Hawksw. & Hafellner: mainly on corticolous, fruticose lichens	Alstrup & Hawksworth 1990 Etayo & Sancho 2008 Harris & Lendemer 2009 Hawksworth & Hafellner 1986		
<i>Phoma</i>	aggregata Calat. & Etayo: on <i>Diploschistes ocellatus</i>	Alstrup 1997 Brackel 2008 Brackel 2011	cladoniicola : CBS 128026	

caloplacae D. Hawksw.: on *Caloplaca cerina*
cladoniicola Diederich, Kocourk. & Etayo:
on *Cladonia*
denigrans Hafellner: on *Lecanora*
epibryon
dubia (Linds.) Sacc. & A. Trotter: on *Usnea*
epiphyscia Vouaux: on *Phaeophyscia*
everniae D. Hawksw.: on *Evernia prunastri*
ficuzzae Brackel: on *Ramalina fraxinea*
foliaceiphila Diederich, Kocourk. & Etayo:
on *Cladonia*
fuliginosa M. S. Cole & D. Hawksw.: on
Caloplaca trachyphylla
grumantiana Zhurb. & Diederich: on
Cladonia
lecanorina Diederich: on *Lecanora expallens*
lobariae Diederich & Etayo: on *Lobaria*
pulmonaria
lobariicola Alstrup: on *Lobaria scrobiculata*
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 *Xanthoria*
ulophylloides
rozziana Etayo: on *Pseudocyphellaria*

Calatayud & Etayo 2001
Diederich 1986
Diederich et al. 2007
Earland-Bennett et al. 2006
Etayo & Diederich 1995
Etayo & Sancho 2008
Hafellner 1994a
Hafellner & Wieser 2000
Hawksworth 1980b
Hawksworth 1981
Hawksworth 1994
Hawksworth & Cole 2004
Ihlen 1998
Martínez & Hafellner 1998
Oksner 2010

<i>Phyllosticta</i> s.l.	galligena F. Moreau: on <i>Parmotrema</i>	Moreau 1951		
<i>Psamma</i>	inflata Earl.-Benn. & D. Hawksw.: on <i>Lepraria</i> and corticolous algae simplex Earl.-Benn. & D. Hawksw.: on various corticolous lichens and algae stipitata D. Hawksw.: on various corticolous lichens and algae	Earland-Bennett & Hawksworth 1999a Hawksworth 1979a		
<i>Pseudocercospora</i>	lichenum (Keissl.) D. Hawksw.: on <i>Haematomma cisonicum</i>	Etayo 2002 Hawksworth 1979a		
<i>Pseudorobillarda</i>	peltigerae Diederich: on <i>Peltigera</i>	van den Boom et al. 1998		
<i>Pseudoseptoria</i>	usnae (Vouaux) D. Hawksw.: on <i>Usnea</i>	Hawksworth 1981		
<i>Pseudospiropes</i>	longipilus (Corda) Hol.-Jech.: facultative lichenicolous on <i>Lepraria</i>	Braun et al. 2008		
<i>Pycnopsamma</i>	lobariae Diederich & Etayo: on <i>Lobaria pulmonaria</i>	Etayo & Diederich 1995		
<i>Pyrenochaeta</i>	collematis Vouaux: on <i>Collema tenax</i> xanthoriae Diederich: on <i>Xanthoria</i>	Clauzade et al. 1989 Diederich 1990 Hafellner 1982a		
<i>Pyrenochaetopsis</i>	microspora (Gruyter & Boerema) Gruyter, Aveskamp & Verkley: facultative lichenicolous on <i>Buellia</i>	de Gruyter et al. (in press)	microspora : CBS 101333	microspora (CBS 101333): nrLSU: GQ387630
<i>Ramichloridium</i>	cladoniicola U. Braun & Heuchert: on <i>Cladonia portentosa</i>	Braun et al. 2009		
<i>Refractohilum</i>	achromaticum (B. Sutton) D. Hawksw.: on <i>Pachyphiale</i> galligenum D. Hawksw.: on <i>Nephroma laevigatum</i> intermedium Cl. Roux & Etayo: on <i>Pachyphiale</i> peltigerae (Keissl.) D. Hawksw.: on <i>Peltigera</i> pluriseptatum 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>	haematommatum Kalb & Hafellner: on <i>Haematomma</i>	Kalb et al. 1995		
<i>Sclerococcum</i>	acarosporae S. Y. Kondr.: on <i>Acarospora</i> areolatum Etayo: probably on <i>Xylographa</i> cladoniae Diederich: on <i>Cladonia</i> epiphytorum Diederich: on <i>Pertusaria hemisphaerica</i> gelidarium Etayo & F. Berger: on <i>Placopsis griseosporodochium</i> Etayo: probably not lichenicolous, but lichenized hawksworthii Etayo & Diederich: on <i>Megalospora tuberculosa</i> leuckertii Diederich & P. Scholz: on <i>Buellia aethalea</i> montagnei Hafellner: on <i>Lecanora rupicola</i> normandinae Diederich & Etayo: on <i>Normandina pulchella</i> parmeliae Etayo & Diederich: on <i>Parmelia</i> s. lat., also on <i>Lobaria</i> and <i>Pannaria</i> serusiauxii Boqueras & Diederich: on <i>Parmelina</i> simplex D. Hawksw.: on corticolous <i>Pertusaria</i> sphaerale (Ach.) Fr.: on <i>Pertusaria</i> [mainly <i>P. corallina</i>] tephromelarum Etayo & Calat.: on <i>Tephromela</i> verrucisporum Alstrup: on <i>Aspicilia</i>	Alstrup 1993a Berger 2000 Boqueras & Diederich 1993 Diederich 1990 Diederich 2010 Diederich & Scholz 1995 Etayo 1995b Etayo & Calatayud 1998 Etayo & Diederich 1995 Etayo & Diederich 1996a Etayo & Sancho 2008 Hafellner 1996b Hawksworth 1975a Hawksworth 1979a Kondratyuk & Zelenko 2002	sphaerale : UAMH 4571; IMI 247000 sphaerale : Culture obtained by Hawksworth and Jones (1981)	
<i>Sessiliospora</i>	bicolora D. Hawksw.: foliicolous lichens	Hawksworth 1979a		
<i>Sphaeromma</i>	[<i>furcatiseta</i> Matzer: on Porina = anamorph of <i>Keratosphaera furcatiseta</i>] [<i>mazosiae</i> H. B. P. Upadhyay: on <i>Mazosia</i> = anamorph of <i>Keratosphaera batistae</i>]	Matzer 1996		

	[<i>porinae</i> Matzer: on <i>Porina</i> = anamorph of <i>Keratosphaera porinae</i>]			
<i>Spilodochium</i>	parmotrematis Diederich & Etayo: on <i>Parmotrema</i>	Etayo & Diederich 1995		
<i>Sporhaplus</i>	[<i>rondondiensis</i> H. B. P. Upadhyay: on <i>Mazosia</i> = anamorph of <i>Keratosphaera batistae</i>]			
<i>Sporidesmiella</i>	lichenophila U. Braun & Heuchert: on <i>Ramalina stenospora</i>	Braun & Heuchert 2010		
<i>Sporidesmium</i>	bacidiicola Alstrup: on <i>Bacidia rubella</i> lichenicola Iturr., D. Hawksw. & J. L. Crane: on <i>Leptogium</i>	Alstrup (1991) Iturriaga et al. (2008)		
<i>Stromatopogon</i>	baldwinii Zahlbr.: on <i>Usnea</i> cladoniae Diederich & Sérus.: on <i>Cladonia</i> geminatum : on <i>Usnea</i>	Diederich 1992a Diederich & Sérusiaux 2003 Etayo & Breuss 2004		
<i>Stygiomyces</i>	galliformis Coppins & S. Y. Kondr.: on <i>Pseudocyphellaria</i>	Coppins & Kondratyuk 1995		
<i>Subhysteropycnis</i>	[<i>maculiformans</i> Wedin & Hafellner: on <i>Pseudocyphellaria</i> = anamorph of <i>Arthonia badia</i>]	Wedin & Hafellner 1998		
<i>Taeniolella</i>	atricerebrina Hafellner: on <i>Tephromela</i> beschiana Diederich: on <i>Cladonia breviscula</i> (Berk. & M. A. Curtis) S. Hughes: facultative lichenicolous caespitosa M. S. Cole & D. Hawksw.: on <i>Pertusaria</i> christiansenii Alstrup & D. Hawksw.: on <i>Stereocaulon</i> chrysothricis Diederich: on <i>Chrysothrix candellaris</i> cladinicola Alstrup: on <i>Cladonia</i> subgen. <i>Cladina</i>	Alstrup 1993b Alstrup & Hansen 2001 Alstrup & Hawksworth 1990 Cole & Hawksworth 2001 Diederich 1990 Diederich 1992b Diederich & Zhurbenko 1997 Diederich & Zhurbenko 2001 Etayo 2010b Etayo & Calatayud 2005 Etayo & Sancho 2008 Hafellner 1998b Hafellner 2007 Hawksworth 1979a Zhurbenko & Alstrup 2004		

	<p>delicata M. S. Christ. & D. Hawksw.: on various lichens</p> <p>diederichiana Etayo & Calat.: on <i>Placopsis</i></p> <p>friesii (Hepp) Hafellner: on <i>Strigula stigmatella</i></p> <p>ionaspisicola Alstrup & E. S. Hansen: on <i>Ionaspis odora</i></p> <p>pertusariicola D. Hawksw. & H. Mayrh.: on <i>Pertusaria</i> and possibly other lichens</p> <p>phaeophysciae D. Hawksw.: on <i>Phaeophyscia orbicularis</i>, possibly also on <i>Physcia</i> and <i>Physconia</i></p> <p>pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i></p> <p>punctata M. S. Christ. & D. Hawksw.: on <i>Graphis scripta</i></p> <p>rolfii Diederich & Zhurb.: on <i>Cetraria</i> and <i>Cetrariella</i></p> <p>santessonii Etayo & Heuchert: on <i>Roccellina cerebriformis</i></p> <p>serusiauxii Diederich: on <i>Schismatomma decolorans</i> and sterile crustose lichens with <i>Trentepohlia</i></p> <p>strictae Alstrup: on <i>Cladonia stricta</i></p> <p>trapeliopseos Diederich: on <i>Trapeliopsis</i></p> <p>verrucosa M. S. Christ. & 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	scripta : CBS 114441	
<i>Talpapellis</i>	peltigerae Alstrup & M. S. Cole: on <i>Peltigera venosa</i>	Alstrup & Cole 1998		
<i>Teratosperma</i>	anacardii Hansf.: on foliicolous lichens lichenicola D. Hawksw.: on foliicolous	Hawksworth 1979a		

	lichens			
<i>Trichoconis</i>	lichenicola D. Hawksw.: on <i>Peltigera collina</i>	Hawksworth 1980b		
<i>Trichothecium</i>	<i>roseum</i> (Pers. ex Fr.) Link ex Fr.: facultative lichenicolous	Hawksworth 1979a		
<i>Trimmatostroma</i>	dendrographae Diederich, Ertz, U. Braun & Heuchert: on <i>Dendrographa</i> hierrense Diederich & Ertz: on <i>Arthonia endlicheri</i> lecanoricola Diederich, Etayo, U. Braun & Heuchert: on <i>Lecanora</i> quercicola Diederich, U. Braun & Heuchert: facultatively lichenicolous on sterile, corticolous, crustose lichens	Diederich et al. 2010		
<i>Vagnia</i>	cirriformis D. Hawksw. & Miadl.: on <i>Peltigera</i>	Hawksworth & Miadlikowska 1997b		
<i>Verrucaster</i>	lichenicola Tobler: on <i>Cladonia</i>	Hawksworth 1981		
<i>Verrucocladosporium</i>	dirinae K. Schub., Aptroot & Crous: on <i>Dirina massiliensis</i> rocellae U. Braun, Diederich & Heuchert: on <i>Rocella</i>	Braun et al. 2009 Crous et al. 2007	dirinae : CBS 112794	
<i>Vouauxiella</i>	[<i>caloplacae</i> Alstrup: on <i>Caloplaca</i> =? <i>Lichenodiplis lecanorae</i>] lichenicola (Lindsay) Petrak & H. Sydow: on <i>Lecanora</i> pithospora (Cavalc. & Silva) B. Sutton: on foliicolous lichens verrucosa (Vouaux) Petrak & H. Sydow: on <i>Lecanora</i>	Alstrup 1993a Hawksworth 1981	lichenicola : Culture obtained by Crittenden et al. (1995)	
<i>Vouauxiella</i>	[<i>caloplacae</i> Alstrup: on <i>Caloplaca</i> =? <i>Lichenodiplis lecanorae</i>] lichenicola (Lindsay) Petrak & H. Sydow: on <i>Lecanora</i> pithospora (Cavalc. & Silva) B. Sutton: on	Alstrup 1993a Hawksworth 1981	lichenicola : Culture obtained by Crittenden et al. (1995)	

	foliicolous lichens verrucosa (Vouaux) Petrak & H. Sydow: on <i>Lecanora</i>			
<i>Xanthoriicola</i>	physciae (Kalchbr.) D. Hawksw.: on <i>Xanthoria</i>	Hawksworth 1979a Hawksworth & Punithalingam 1973 Ruibal et al. 2011		physciae (CR4): nrLSU: JN040487 physciae (CR10): nrLSU: JN040488 physciae (CR20): nrLSU: JN040489 physciae (CR21): nrLSU: JN040490 physciae (CR22): nrLSU: JN040491 physciae (CR23): nrLSU: JN040492 physciae (CR44): nrLSU: JN040493 physciae (CR45): nrLSU: JN040494 physciae (CR50): nrLSU: JN040495 physciae (CR51): nrLSU: JN040496 physciae (CR58): nrLSU: JN040497
<i>Zevadia</i>	peroccidentalis J. C. David & D. Hawksw.: on <i>Usnea</i>	David & Hawksworth 1995		

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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; culture collection links)	Sequences (with accession numbers)
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BASIDIOMYCOTA				
Pucciniomycotina				
Agaricostilbales				
Chionosphaeraceae				
<i>Chionosphaera</i>	cf. apobasidialis Cox: on various lichens coppinsii P. Roberts: on various lichens lichenicola Alstrup, Sutton & Tønberg: on various lichens	Kirschner et al. 2001 Roberts 1997 Diederich 1996		
Platyglloeales				
Platyglloeaceae				
<i>Cystobasidium</i>	hypogymniicola Diederich & Ahti: on <i>Hypogymnia</i> usneicola Diederich & Alstrup: on <i>Usnea</i>	Diederich 1996 Diederich & Christiansen 1994		

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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; culture collection links)	Sequences (with accession numbers)
BASIDIOMYCOTA				
Tremellomycetes				
Syzygosporaceae				
<i>Syzygospora</i>	bachmannii Diederich & M. S. Christ.: on <i>Cladonia</i> parmeliicola Diederich: on <i>Hypotrachyna</i> physciacearum Diederich: on <i>Heterodermia</i> , <i>Physcia</i> and <i>Physconia</i>	Diederich 1996		bachmannii (CO213): nrSSU: JN043560 ; nrITS: JN053505 ; nrLSU: JN043612 bachmannii (AM72): nrSSU: JN043559 ; nrITS: JN053506 ; nrLSU: JN043613 physciacearum (AM17): nrSSU: JN043561 ; nrITS: JN053507 ;

				nrLSU: JN043614
Tremellaceae				
<i>Biatoropsis</i>	usnearum Räsänen: on <i>Protousnea</i> and <i>Usnea</i>	Diederich 1996 Diederich & Christiansen 1994	usnearum : CBS 110636 (sequence information indicates this strain is probably a contaminant); CBS 100997	usnearum (AA9): nrSSU: JN043540; nrITS: JN053486; nrLSU: JN043592 usnearum (AA10): nrSSU: JN043543; nrITS: JN053489; nrLSU: JN043595 usnearum (AM24): nrSSU: JN043542; nrITS: JN053488; nrLSU: JN043594 usnearum (CO294): nrSSU: JN043541; nrITS: JN053487; nrLSU: JN043593
<i>Tremella</i>	caloplacae (Zahlbr.) Diederich: on <i>Caloplaca</i> and <i>Xanthoria</i> candelariellae Diederich & Etayo: on <i>Candelariella</i> cephalodiicola Diederich on <i>Psoroma</i> cetrariicola Diederich & Coppins: on <i>Cetraria delisei</i> and <i>Tuckermannopsis</i> christiansenii Diederich: on <i>Physcia</i> cladoniae Diederich & M. S. Christ.: on <i>Cladonia</i> coccocarpiae Diederich: on <i>Coccocarpia</i> coppinsii Diederich & Marson: on <i>Platismatia</i> dendrographae Diederich & Tehler: on <i>Dendrographa</i> everniae Diederich: on <i>Evernia mesomorpha</i> graphidastrae Diederich: on <i>Graphidastra</i> haematommatis Diederich: on <i>Haematomma</i> harrisii Diederich: on <i>Polymeridium</i> and	Diederich 1996 Diederich 2003 Diederich 2004d Diederich 2007a Diederich 2007b Sérusiaux et al. 2003 Millanes et al. 2011		caloplacae (AM32): nrSSU: JN043525; nrITS: JN053469; nrLSU: JN043574 caloplacae (AM31): nrITS: JN053468; nrLSU: JN043573 candelariellae (AM34): nrSSU: JN043526; nrITS: JN053470; nrLSU: JN043575 cetrariicola (AM111): nrSSU: JN043544; nrITS: JN053490; nrLSU: JN043596 cetrariicola (AM123): nrSSU: JN043545; nrITS: JN053491; nrLSU: JN043597 christiansenii (AM36): nrLSU: JN043577; cladoniae (AM84): nrSSU: JN043533; nrITS: JN053478; nrLSU: JN043584 cladoniae (AM125): nrSSU: JN043532; nrITS: JN053477;

Trypethelium

hypocenomycis Diederich: on

Hypocenomyce

hypogymniae Diederich & M. S. Christ.: on

Hypogymnia

leptogii Diederich: on *Leptogium*

lethariae: on *Letharia vulpina*

lichenicola Diederich: on *Mycoblastus*

fucatus

lobariacearum Diederich & M. S. Christ.:

on *Lobaria* and *Pseudocyphellaria*

macroceratis Diederich & Hafellner: on

Cladonia

microcarpa Diederich: on cf. *Megalospora*

monospora Diederich: on *Leptogium*

montis-wilhelmii Diederich: on

Normandina simodense

nashii Diederich: on *Usnea*

nephromatis Diederich: on *Nephroma*

normandinae Diederich: on *Normandina*

pulchella

nieblae Diederich: on *Niebla*

papuana Diederich: on *Hypogymnia*

parmeliarum Diederich: on *Parmotrema*

parmeliellae Diederich & Sérusiaux: on

Parmeliella

pertusariae Diederich: on *Pertusaria*

phaeographidis Diederich, Coppins &

Bandoni: on *Phaeographis*

phaeographinae Diederich & Aptroot: on

Phaeographina

phaeophysciae Diederich & M. S. Christ.:

on *Phaeophyscia*

nrLSU: JN043583

coppinsii (AM38): nrSSU:

JN043549; nrITS: JN053495;

nrLSU: JN043601

coppinsii (AM124): nrSSU:

JN043550; nrITS: JN053496;

nrLSU: JN043602

dendrographae (AM39): nrITS:

JN053471; nrLSU: JN043576

everniae (AM1): nrSSU:

JN043547; nrITS: JN053493;

nrLSU: JN043599

haematommatis (AM41): nrITS:

JN053510; nrLSU: JN043617

hypogymniae (AA7): nrSSU:

JN043538; nrITS: JN053484;

nrLSU: JN043590

hypogymniae (AM122): nrSSU:

JN043539; nrITS: JN053485;

nrLSU: JN043591

leptogii (AM81): nrSSU:

JN043531; nrITS: JN053476;

nrLSU: JN043582

lichenicola (AM18): nrSSU:

JN043558; nrITS: JN053504;

nrLSU: JN043611

lobariacearum (AM80): nrSSU:

JN043528; nrITS: JN053473;

nrLSU: JN043579

lobariacearum (AM118): nrSSU:

JN043529; nrITS: JN053474;

nrLSU: JN043580

nephromatis (AM133): nrSSU:

JN043530; nrITS: JN053475;

nrLSU: JN043581

parmeliarum (AM120): nrSSU:

	<p>protoparmeliae Diederich & Coppins: on <i>Proroparmelia</i></p> <p>psoroglaenae Diederich: on <i>Psoroglaena</i></p> <p>psoromicola Diederich: on <i>Psoroma</i></p> <p>ramalinae Diederich: on <i>Ramalina</i></p> <p>rinodinae Diederich & M. S. Christ.: on <i>Rinodina</i></p> <p>santessonii Diederich: on <i>Usnea</i></p> <p>stevensiana Diederich: on <i>Usnea</i></p> <p>stictae Diederich: on <i>Dendriscoaulon</i> and <i>Sticta</i></p> <p>sulcariae Diederich & M. S. Christ.: on <i>Sulcaria</i></p> <p>tuckerae Diederich: on <i>Ramalina</i></p> <p>wirthii Diederich: on <i>Protoparmelia</i></p>			<p>JN043565; nrITS: JN053511; nrLSU: JN043618</p> <p>pertusariae (AM2): nrSSU: JN043548; nrITS: JN053494; nrLSU: JN043600</p> <p>phaeophysciae (AM98): nrITS: JN053479; nrLSU: JN043585</p> <p>phaeophysciae (AM121): nrSSU: JN043534; nrITS: JN053480; nrLSU: JN043586</p> <p>ramalinae (AM15): nrSSU: JN043567; nrITS: JN053513; nrLSU: JN043620</p> <p>ramalinae (AM126): nrSSU: JN043566; nrITS: JN053512; nrLSU: JN043619</p> <p>tuckerae (AM89): nrSSU: JN043536; nrITS: JN053482; nrLSU: JN043588</p> <p>wirthii (AM90): nrSSU: JN043546; nrITS: JN053492; nrLSU: JN043598</p>
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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; culture collection links)	Sequences (with accession numbers)
BASIDIOMYCOTA				
Agaricomycetes				
Agaricales				
Hygrophoraceae				

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

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

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

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