

October 15 2010

	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 Etayo: on <i>Aspicilia hispida</i>	Clauzade et al. 1989		
Pleosporales				
Leptosphaeriaceae				
<i>Leptosphaeria</i> s.l.	clarkii D. Hawksw.: on <i>Peltigera protousneae</i> Etayo: on <i>Protousnea pycnostigma</i> (Nyl.) Sacc.: on <i>Baeomyces ramalinae</i> (Desm.) Sacc.: on <i>Ramalina</i>	Clauzade et al. 1989 Etayo & Sancho 2008 Hawksworth 1980b		
<i>Ophiobolus</i> s.l.	aspiciliae (Oliv.) 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 Zuk.: on Collemataceae crozalsii Vouaux on <i>Sticta sylvatica</i> 'Verrucaria' congestula Steiner: on <i>Placopsis macrophthalma</i> [a taxon of uncertain position]	Clauzade et al. 1989 Hawksworth 1978a Hawksworth 1979b 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</i>	Clauzade et al. 1989		

	<i>callaina</i>			
Incertae sedis				
Dacampiaceae				
<i>Clypeococcum</i>	<p>bisporum Zhurb.: on <i>Cetraria</i> and <i>Flavocetraria</i></p> <p>cetrariae Hafellner: on <i>Cetraria islandica</i></p> <p>cladonema (Wedd.) D. Hawksw.: on <i>Cetrelia</i> and <i>Xanthoparmelia</i></p> <p>epicrassum (H. Olivier) Hafellner & Nav.-Ros.: on <i>Squamarina</i></p> <p>epimelanostolum (D. Hawksw. & Øvstedal) Grube & Hafellner: on <i>Buellia melanostola</i></p> <p>grossum (Körb.) D. Hawksw.: on <i>Umbilicaria</i></p> <p>hypocenomycis D. Hawksw.: on <i>Hypocenomyce scalaris</i></p> <p>placopsiophilum Øvstedal & D. Hawksw.: on <i>Placopsis</i></p>	<p>Grube & Hafellner 1990</p> <p>Hafellner 1994a</p> <p>Hafellner 1995</p> <p>Hawksworth 1977a</p> <p>Hawksworth 1980a</p> <p>Hawksworth 1982a</p> <p>Navarro-Rosinés et al. 1994</p> <p>Øvstedal & Hawksworth 1986</p> <p>Zhurbenko 2009a</p>	<p>hypocenomycis: Culture obtained by Crittenden et al. (1995)</p>	
<i>Dacampia</i>	<p>caloplacicola Halıcı, Candan & Etayo: on <i>Caloplaca</i></p> <p>engeliana Saut.: on <i>Solorina</i></p> <p>hookeri (Borrer) A. Massal.: lichenicolous lichen on <i>Solorina</i></p> <p>leptogiicola (D. Hawksw.) D. Hawksw.: on <i>Leptogium</i></p> <p>muraliicola Halıcı & 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 Halıcı, Candan & Calat.: on <i>Aspicilia</i></p> <p>rufescentis (Vouaux) D. Hawksw.: on <i>Peltigera</i></p>	<p>Halıcı & Hawksworth 2008</p> <p>Halıcı et al. 2009a</p> <p>Halıcı et al. 2009b</p> <p>Hawksworth 1980b</p> <p>Hawksworth 1986</p> <p>Henssen 1995</p>		

	xanthomendozae Etayo & Halici: on <i>Xanthomendoza</i>			
<i>Polycoccum</i>	acarosporicola Halici & D. Hawksw.: on <i>Acarospora cervina</i> aksoyi Halici & V. Atienza: on <i>Aspicilia</i> amygdalariae F. Berger & Triebel: on <i>Amygdalaria</i> arnoldii (Hepp) D. Hawksw.: on <i>Diploschistes</i> and <i>Rhizocarpon</i> bryonthae (Arnold) Vězda: on <i>Caloplaca</i> <i>cerina</i> and <i>Pertusaria bryontha</i> cartilagosum (Arnold) D. Hawksw.: on an unidentified saxicolous lichen? cladoniae Diederich & D. Hawksw.: on <i>Cladonia</i> clauzadei Nav.-Ros. & Cl. Roux: on <i>Xanthoria elegans</i> crassum Vězda: on <i>Peltigera</i> crespoae Váci & D. Hawksw.: on <i>Chondropsis</i> decolorans Calat. & Triebel: on <i>Immersaria</i> deformans R. Sant., nom. nud.: on <i>Placopsis</i> dzieduszyckii (Boberski) D. Hawksw.: on <i>Bagliettoa</i> epicrassum (H. Olivier) R. Sant.: on <i>Squamarina</i> epiphyllum Matzer: on <i>Trichothelium</i> epizoharyi Calat. & V. Atienza: on <i>Buellia</i> <i>zoharyi</i> evae Calat. & V.J. Rico: on <i>Dimelaena</i> follmannii (C.W. Dodge) Alstrup: on <i>Lecidea</i> <i>cremoricolor</i> heterodermiae Calat.: on <i>Heterodermia</i>	Alstrup 2002 Aptroot et al. 1997 Atienza & Hawksworth 2008 Atienza et al. 2003 Berger 2000 Calatayud 2004 Calatayud & Atienza 2000 Calatayud & Rambold 1998 Calatayud & Rico 1995 Clauzade et al. 1989 Diederich 1990 Etayo 1996 Etayo & Diederich 1998 Etayo & Sancho 2008 Galloway 2004 Halici et al. 2007 Halici et al. 2009 Hawksworth 1985b Hawksworth 1994 Hawksworth & Diederich 1988 Hawksworth & Miadlikowska 1997a Kocourková & Berger 1999 Kondratyuk 2008 Matzer 1996 Navarro-Rosinés & Roux 1990 Navarro-Rosinés & Roux 1998 Váci & Hawksworth 2001 Zhurbenko 2007c	peltigerae : CBS 112.77	vermicularium : nrLSU: AY961601

infestans (Speg.) Etayo: on *Teloschistes*
innatum (Müll. Arg.) D. Hawksw.: on an
unidentified corticolous lichen
jamesii D. Hawksw.: on *Psoromidium*
kaernefeltii S. Y. Kondr.: on *Teloschistes*
keneri J. Steiner: on *Lecidea fuscoatra*
laursenii Zhurb.: on *Cladonia*
longisporum Etayo: on *Pseudocyphellaria*
marmoratum (Kremp.) D. Hawksw.: on
Thelidium and *Verrucaria*
microcarpum Diederich & Etayo: on
Cladonia
microstictum (Leight.) Arnold: on
Acarospora and possibly *Buellia* and
Rhizocarpon
minutulum Kocourk. & F. Berger: on
Trapelia
montis-wilhelmii Diederich: on
Hypotrachyna
opulentum (Th. Fr. & Almq.) Arnold: on
Polyblastia
peltigerae (Fuckel) Vězda: on *Peltigera*
pulvinatum (Eitner) R. Sant.: on *Phycia*
rubellianae Calat. & V. Atienza: on
Caloplaca
rugulosarium (Linds.) D. Hawksw.: on
Caloplaca
serusiauxii Matzer: on *Byssolecania*
slaptoniense D. Hawksw.: on *Xanthoria*
sporastatae Arnold: on *Sporastatia*
squamarioides (Mudd) Arnold: on
Placopsis
stictaria (Linds.) D.J. Galloway: on

	<p><i>Pseudocyphellaria</i> superficiale D. Hawksw. & Miqdl.: on <i>Peltigera</i> teresum Halici & K. Knudsen: on <i>Xanthoria</i> tinantii Diederich: on <i>Caloplaca</i> trypethelioides (Th. Fr.) R. Sant.: on <i>Stereocaulon</i> umbilicariae (Linds.) D. Hawksw.: on <i>Lasallia</i> ventosicola Zhurb. : on <i>Ophioparma ventosa</i> vermicularium (Linds.) D. Hawksw.: on <i>Thamnolia</i> versisporum (Bagl. & Carestia) D. Hawksw.: on 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 <i>Cryptothecia</i> <i>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> sporopodium Matzer: on <i>Sporopodium</i> zamia (Müll. Arg.) Matzer: on <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></p>	Alstrup 1992		

	<p>epicallopsima (Wedd.) D. Hawksw.: on <i>Caloplaca</i> and <i>Protoblastenia</i></p> <p>erythrocarpae Nav.-Ros. & Cl. Roux: on <i>Caloplaca erythrocarpa</i></p> <p>gasparrinae (C.W. Dodge) D. Hawksw. & Iturr.: on ?<i>Caloplaca</i></p> <p>geographicola (Arnold) Alstrup & D. Hawksw.: on <i>Rhizocarpon</i></p> <p>heterochrous Nav.-Ros. & Cl. Roux: on <i>Aspicilia</i></p> <p>macrosporus D. Hawksw., Renob. & Coppins: on <i>Aspicilia calcarea</i></p> <p>pachyosporicola Nav.-Ros. & Cl. Roux: on <i>Aspicilia</i></p> <p>periphericus (Taylor) Alstrup & D. Hawksw.: on <i>Pertusaria pseudocorallina</i></p> <p>protearius Nav.-Ros. & Cl. Roux: on <i>Caloplaca proteus</i></p> <p>tartaricola (Linds.) Alstrup & D. Hawksw.: on <i>Ochrolechia</i></p> <p>turcicus Halici & Orange: on <i>Acarospora</i></p> <p>xanthoparmeliae Calat. & Nav.-Ros.: on <i>Xanthoparmelia</i></p>	<p>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>		
Dimeriaceae				
<i>Keratospaera</i>	<p>batistae H. B. P. Upadhyay: on foliicolous <i>Mazosia</i></p> <p>dimerellae Matzer: on foliicolous <i>Dimerella</i></p> <p>furcatisetae Matzer: on foliicolous <i>Porina</i></p> <p>porinae Matzer: on foliicolous <i>Porina</i></p>	<p>Matzer 1996</p>		
Lichenotheliaceae				
<i>Lichenostigma</i>	<p>amplum Calat. & Hafellner: on <i>Buellia</i></p> <p>anatolicum Halici & Kocakaya: on brown <i>Acarospora</i></p>	<p>Calatayud & Barreno 2003 Calatayud & Navarro-Rosinés 2000</p>		

bolacinae Nav.-Ros., Calat. & Hafellner: on
Caloplaca bolacina
canariense Etayo & van den Boom: on
Aspicilia calcarea
cosmopolites Hafellner & Calat.: on
Xanthoparmelia
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
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*
semi-immersum Hafellner: on *Buellia*
subradians Hafellner, Calat. & Nav.-Ros.: on
Acarospora

Calatayud et al. 2002
Calatayud et al. 2004
Hafellner 1982a
Hafellner 1999
Hafellner & Calatayud 1999
Halici & Hawksworth 2007
Halici et al. 2009
Ihlen 2004
Kalb et al. 1995
Navarro-Rosinés & Hafellner
1996
Pérez-Ortega & Calatayud 2009
Thor 1985
van den Boom & Etayo 2006
Vondrák & Šoun 2007

	<p>supertegentis Ihlen & R. Sant. : on <i>Aspicilia supertegens</i></p> <p>svandae Vondrák & Šoun: on <i>Acarospora cervina</i></p> <p>triseptatum Halıcı & D. Hawksw.: on <i>Aspicilia</i></p>			
Microthyriaceae				
<i>Lichenopeltella</i>	<p>arctomiaae 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>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 zeylanica</i></p> <p>hypotrachynae Diederich: on <i>Hypotrachyna</i></p> <p>leprosulae Pérez-Ortega & T. Sprib.: on <i>Myochroidea leprosula</i></p> <p>leptogii Diederich: on <i>Leptogium</i></p> <p>lobariae Etayo & Diederich: on <i>Lobaria</i></p> <p>maculans (Zopf) Höhn.: on <i>Umbilicaria</i></p>	<p>Aptroot et al. 1997</p> <p>Cole & Hawksworth 2002</p> <p>Earland-Bennett & Hawksworth 1999b</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 2010</p>		

	<p>megalosporae Diederich: on <i>Megalospora</i> microspora Diederich: on <i>Parmeliella</i> minuta R. Sant.: on <i>Marchandiomphalina 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></p>			
<i>Macrographa</i>	antarctica Etayo: on <i>Nephroma antarcticum</i>	Etayo & Sancho 2008		
Mycosphaerellaceae				
<i>Sphaerulina</i> s.l.	<p>dolichotera (Nyl.) Vouaux: on Collemataceae dubiella (Nyl.) Keissl. ex W. Wats.: on crustose lichen intermedia Vouaux: on <i>Leptogium</i> lepidiotae (Anzi) Vain.: on <i>Fuscopannaria praetermissa</i></p>	Clauzade et al. 1989		
Naetrocymbaceae				

<i>Leptorhaphis</i>	haematommatus 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</i> <i>canariensis</i> nephromatis Wedin & Diederich: on <i>Nephroma australe</i> phaeospora Matzer & Lücking: on <i>Strigula</i> <i>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 <i>Strigula</i> tenellula (Müll. Arg.) Matzer: on <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: on <i>Catapyrenium</i> lichenicola Matzer: on <i>Mazosia</i> parvipunctum (Stein) Diederich: on <i>Thelidium</i> solorinae (Vain.) Nik. Hoffm. & Hafellner: on <i>Solorina</i>	Hoffmann & Hafellner 2000 Matzer 1996 Sérusiaux et al. 1999		
<i>Neocoleroa</i>	inundata (Vain.) Diederich: on <i>Bacidina</i> lichenicola (Hansf.) M. E. Barr. subsp. lichenicola : on a foliicolous lichen lichenicola (Hansf.) M. E. Barr. subsp.	Barr 1997 Hawksworth 1980b Matzer 1996 Roux et al. 1994 Sérusiaux et al. 1999		

	bouteillei (Bricaud, Cl. Roux & Sérus.) Barr: on <i>Fellhanera bouteillei</i> and possibly <i>Bacidina</i>			
Tubeufiaceae				
<i>Tubeufia</i>	eriodermæ Etayo: on <i>Erioderma</i> heterodermiæ Etayo: on <i>Heterodermia</i> and <i>Physcia</i>	Etayo 2002a Etayo 2002b		
Incertae sedis				
<i>Ascohansfordiellopsis</i>	deightonii D. Hawksw.: on foliicolous lichens insectivora (Hansf.) D. Hawksw.: on foliicolous lichens	Hawksworth 1979a		
<i>Buelliella</i>	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> lecanoræ Suija & Alstrup: on <i>Lecanora</i> minimula (Tuck.) Fink ex Hafellner: on <i>Pertusaria</i> physciicola Poelt & Hafellner: on <i>Phaeophyscia</i> and <i>Physcia</i> poetschii Hafellner: on <i>Endocarpon</i> pusilla Hafellner: on <i>Brigantiaea leucoxantha</i> trypethelii (Tuck.) Fink ex Hafellner: on <i>Trypethelium</i>	Aptroot et al. 1997 Etayo 2002a Hafellner 1979 Hafellner 1985a Hafellner et al. 2008 Kalb 1990 Suija & Alstrup 2004		
<i>Cercidospora</i>	alpina Ihlen & Wedin: on <i>Stereocaulon</i> <i>cumulatum</i> arthrorhaphidicola Alstrup: on <i>Arthrorhaphis alpina</i> caudata Kernst.: on <i>Caloplaca</i> ceccidiiformans Grube & Hafellner: on <i>Rhizocarpon</i>	Alstrup 1997 Alstrup et al. 1994 Clauzade et al. 1989 Hafellner 1987b Hafellner 1993 Hafellner & Obermayer 1995 Ihlen 1995 Ihlen 1998 Ihlen & Wedin 2007		

cladoniicola Alstrup: on *Cladonia arbuscula*
crozalsiana (H. Olivier) Nav.-Ros., Cl. Roux
& Casares: on *Squamarina*
epicallopisma Arnold: on *Caloplaca*
aurantia
epicarphinea (Nyl.) Grube & Hafellner: on
Caloplaca gr. *carphinea*
epipolytropa (Mudd) Arnold: on *Lecanora*
exiguella (Nyl.) Arnold: on *Rinodina*
mniaeraea
galligena Hafellner & Nav.-Ros.: on *Aspicilia*
lecidomae Zhurb. & Triebel: on *Lecidoma*
demissum
lobothalliae Nav.-Ros. & Calat.: on
Lobothallia
macrospora (Uloth) Hafellner & Nav.-Ros.:
on *Lecanora muralis*
melanophthalmae Nav.-Ros., Calat. &
Hafellner, nom. nud.: on *Rhizoplaca*
melanophthalma
mutabilicola Calat. et al., nom. nud.: on
Megaspora verrucosa var. *mutabilis*
parva Hafellner & Ihlen: on *Baeomyces*
punctillata (Nyl.) R. Sant.: on *Solorina* and
Peltigera [= *C. lichenicola* (Zopf) Hafellner]
solearispora Calat., Nav.-Ros. & Hafellner:
on *Aspicilia*
soror Obermayer & Triebel: on *Arthrorhaphis*
citrinella
stereocaulorum (Arnold) Hafellner: on
Stereocaulon
thamnoliicola Ihlen: on *Thamnia*
trypetheliza (Nyl.) Hafellner & Obermayer:

Navarro-Rosinés et al. 1995
Navarro-Rosinés et al. 2004
Navarro-Rosinés et al. 2009
Triebel 1989
Triebel & Scholz 2001
Zhurbenko & Triebel 2003
Zhurbenko et al. 1995

	<p>on <i>Arhrorhaphis alpina</i></p> <p>verrucosaria (Linds.) Arnold: on <i>Megaspora weneri</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>	<p>Etayo 1995b</p> <p>Etayo & Sancho 2008</p>		
<i>Echinothecium</i>	<p>aerophilum Alstrup & M. S. Cole: on <i>Alectoria</i></p> <p>cladoniae Keissl.: on <i>Cladonia</i></p> <p>reticulatum Zopf: on <i>Parmelia</i></p>	<p>Alstrup & Cole 1998</p> <p>Clauzade et al. 1989</p> <p>Roux & Triebel 1994</p>	<p>reticulatum: Culture obtained by Crittenden et al. (1995)</p>	
<i>Karschia</i>	<p>alpicolae D. Hawksw. & Alstrup: on <i>Allantoparmelia alpicola</i></p> <p>santessonii Hafellner: on <i>Porpidia</i></p> <p>talcophila (Ach. ex Flot.) Koerb.: on <i>Diploschistes</i></p>	<p>Alstrup & Hawksworth 1990</p> <p>Hafellner 1979</p> <p>Santesson 1994a</p>		
<i>Koordersiella</i>	<p>deightonii (D. Hawksw.) D. Hawksw. & O. E. Erikss.: on foliicolou <i>Porina</i> and ?Gomphillaceae</p> <p>insectivora (Hansf.) D. Hawksw. & O. E. Erikss.: on foliicolous <i>Asterothyrium</i></p> <p>javanica Höhn.: on Gomphillaceae</p>	<p>Eriksson & Hawksworth 1987</p> <p>Hawksworth 1979a</p> <p>Matzer 1996</p>		
<i>Lanatosphaera</i>	<p>dimerellae Matzer: on <i>Dimerella epiphylla</i></p> <p>porinicola Matzer: on <i>Porina epiphylla</i></p>	<p>Matzer 1996</p>		
<i>Myxophora</i>	<p>apotheciicola Nik. Hoffm. & Hafellner: on <i>Leptogium azureum</i></p> <p>leptogiophila (Minks ex G. Winter) Nik. Hoffm. & Hafellner: on <i>Collema</i> and <i>Leptogium plicatile</i></p> <p>ovalispora Nik. Hoffm. & Hafellner: on <i>Collema</i></p> <p>placynthii Nik. Hoffm. & Hafellner: on</p>	<p>Hoffmann & Hafellner 2000</p>		

	<p><i>Placynthium caesium</i> tetraspora Nik. Hoffm. & Hafellner: on <i>Collema flaccidum</i></p>			
<i>Sphaerellothecium</i>	<p>abditum Triebel: on <i>Immersaria</i> and <i>Lecidea</i> araneosum (Arnold) Zopf: on <i>Ochrolechia</i>, <i>Pertusaria</i> and <i>Varicellaria</i> atryneae (Arnold) Cl. Roux & Triebel: on <i>Lecanora bicincta</i>, <i>L. cenisia</i>, <i>L. rupicola</i> and <i>L. swartzii</i> breussii K. Knudsen, Kocourk. & Etayo: on <i>Placidium lacinulatum</i> buelliae (C.W. Dodge) D. Hawksw. & Iturr.: on <i>Buellia</i> cinerascens Etayo & Diederich: on <i>Cladonia</i> <i>parasitica</i> cladoniae (Alstrup / Zhurb.) Hafellner: on <i>Cladonia</i> subgen. <i>Cladonia</i> and <i>Stereocaulon</i> cladoniicola E. S. Hansen & Alstrup: on <i>Cladonia</i> subgen. <i>Cladina</i> conioides (Nyl.) Cl. Roux & Diederich: on <i>Baeomyces rufus</i> contextum Triebel: on <i>Calvitimela</i>, <i>Protoparmelia</i>, <i>Rhizocarpon</i>, <i>Rhizoplaca</i> and <i>Sporastatia</i> gallowayi Diederich: on <i>Heterodermia</i> gowardii Alstrup & M. S. Cole: on <i>Acarospora schleicheri</i> icmadophilae (R. Sant.) Zhurbenko: on <i>Icmadophila ericetorum</i> minutum Hafellner: on <i>Sphaerophorus</i> pannariacearum Etayo; on <i>Pannaria</i> parietinarium (Linds.) Hafellner & V. John:</p>	<p>Alstrup & Cole 1998 Diederich 2007c Diederich & Zhurbenko 2009 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 Zhurbenko 2007b Zhurbenko 2008 Zhurbenko & Alstrup 2004 Zhurbenko & Triebel 2008</p>		

	<p>on <i>Xanthoria</i></p> <p>parmeliae Diederich & Etayo: on <i>Parmelia</i></p> <p>phaeorrhizae Diederich & Zhurb.: on <i>Phaeorrhiza sareptana</i></p> <p>propinquellum (Nyl.) Cl. Roux & Triebel: on <i>Lecanora carpinea</i> group</p> <p>soechtingii Zhurb. & Alstrup: on <i>Arthrorhaphis alpina</i></p> <p>stereocaulorum Zhurb.: on <i>Stereocaulon</i></p> <p>subtile Triebel & Rambold: on <i>Teloschistes</i></p>			
<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>	maheui (Werner) Nav.-Ros., Cl. Roux & Giralto: on <i>Rinodina</i>	Navarro-Rosinés et al. 1996 Navarro-Rosinés et al. 1998d		

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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				
Arthoniales				
Arthoniaceae				
<i>Arthonia</i> [incl. anam. <i>Helicobolomyces</i> and <i>Subhysteropycnis</i>]	<p>aspiciliae (Metzl.) S. Y. Kondr.: on ...</p> <p>epifarinosa Etayo: on <i>Pannaria</i></p> <p>marginalis Etayo: on <i>Pseudocyphellaria</i></p> <p>xanthoparmeliarum Etayo: on <i>Xanthoparmelia</i></p>	<p>Alstrup 1993a</p> <p>Alstrup & Cole 1998</p> <p>Alstrup & Hansen 2001</p> <p>Alstrup & Olech 1996</p> <p>Aptroot et al. 1995</p> <p>Aptroot et al. 1997</p>		

	80-0-1	Calatayud et al. 1995 Diederich 1995 Etayo 1993 Etayo 1996 Etayo 2002a Etayo & Breuss 1998 Etayo & Sancho 2008 Grube & Matzer 1997 Grube et al. 1995 Hawksworth 1991a Hertel 1969 Horáková 1994 Kalb et al. 1995 Kantvilas & Vězda 1992 Kondratyuk 1996a Kondratyuk & Zelenko 2002 Santesson 1993a Triebel et al. 1991 Wedin & Kondratyuk 1997		
Roccellaceae				
<i>Enterographa</i>	1-0-0	Matzer 1996		
<i>Lecanographa</i>	3-0-0	Egea & Torrente 1994		
<i>Mazosia</i>	1-0-0	Matzer 1996		
<i>Opegrapha</i>	reactiva (Alstrup & D. Hawksw.) Etayo & Diederich: on <i>Hymenelia lacustris</i> 48-0-0	Alstrup & Hawksworth 1990 Aptroot et al. 1997 Awasti 1991 Clauzade et al. 1989 Coppins & Kondratyuk 1998 Etayo 1996 Etayo & Sancho 2008 Hafellner 1985a Hafellner 1994a Isbrand & Alstrup 1992 Kalb & Elix 1995 Kalb et al. 1995 Kondratyuk & Galloway 1995c Lücking 1998 Matzer 1996 Navarro-Rosinés & Hladun 1995		

		Orange 2002 Triebel 1989		
<i>Paradoxomyces</i>	1-0-0	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>Plectocarpon</i>	arthonioides Diederich: on <i>Lobaria isidiophora</i> bunodophori Wedin, Ertz & Diederich: on <i>Bunodophoron patagonicum</i> cladoniae R. Sant.: on <i>Cladonia</i> concentricum Ertz, Diederich & Wedin: on <i>Pseudocyphellaria homeophylla</i> coppinsii Ertz & Diederich: <i>Pseudocyphellaria crocata</i> crystalliferum Christnach, Ertz & Diederich: on <i>Sticta</i> encausticum (Nyl.) R. Sant.: on <i>Brodoa intestiniformis</i> gallowayi (S. Y. Kondr.) Ertz & Diederich: on <i>Pseudocyphellaria dissimilis</i> gayanum Etayo: on <i>Siphula</i> hypogymniae Zhurb. & Diederich: on <i>Hypogymnia bitteri</i> lambinonii Diederich & Etayo: on <i>Lobaria</i> and <i>Pseudocyphellaria anomala</i> latisporum Ertz, Diederich & Wedin: on <i>Pseudocyphellaria coriifolia</i> leuckertii (S. Y. Kondr. & D. J. Galloway) Ertz & Diederich: on <i>Pseudocyphellaria intricata</i> and <i>P. norvegica</i> lichenum (Sommerf.) D. Hawksw.: on	Aptroot et al. 1997 Cáceras et al. 2001 Diederich & Etayo 1994 Ertz & Diederich 2007 Ertz et al. 2003 Ertz et al. 2005 Etayo 2007 Etayo & Sancho 2008 Hawksworth & Galloway 1984 Santesson 1993a Santesson 1994a Scholz 1998 Wedin & Hafellner 1998 Zhurbenko et al. 2008		

Lobaria pulmonaria, *Pseudocyphellaria anomala* and *P. anthraspis*

linitae (R. Sant.) Wedin & Hafellner: on
Lobaria linita

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

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

nashii Hafellner: on *Niebla robusta*

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

obtectum Ertz & Diederich: on
Pseudocyphellaria encoensis

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

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

pseudocyphellariae Diederich: on
Pseudocyphellaria gilva

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

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

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

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

serusiauxii Ertz & Diederich: on *Sticta*

sticticola Ertz, Wedin & Diederich: on *Sticta*

tibellii Ertz & Diederich: on
Pseudocyphellaria rubella

triebelsiae Diederich & Ertz: on *Lobaria
quercizans*

	usneae Diederich & Etayo: on <i>Usnea exasperata</i> usneaustralis Etayo: on <i>Usnea</i> venustum Ertz, Coppins & Diederich: on <i>Nephroma papillosum</i> violaceum Ertz, R. Sant., Diederich & Wedin: on <i>Nephroma antarcticum</i>			
Incertae sedis				
<i>Arthophacopsis</i>	1-0-0	Hafellner 1998a		

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ASCOMYCOTA				
Chaetothyriales				
Chaetothyriaceae				
<i>Biciliopsis</i>	1-0-0	Aptroot et al. 1997 Hoffmann & Hafellner 2000		
Herpotrichiellaceae				
<i>Capronia</i>	leopoldiana Etayo: on <i>Leptogium</i> magellanica Etayo: on <i>Fuscopannaria</i> 9-0-0	Aptroot et al. 1997 Etayo 2002a Etayo & Diederich 1998 Etayo & Sancho 2008 Hawksworth 1980b Hawksworth 1990a Kondratyuk & Galloway 1995a		
Pyrenulales				
Requienellaceae				
<i>Lacrymospora</i>	0-0-1	Aptroot 1991		

<i>Parapyrenis</i>	lichenicola Aptroot & Diederich: on <i>?Pertusaria</i>	Aptroot et al. 1997		
Verrucariales				
Adelococcaceae				
<i>Adelococcus</i>	porocyphii S. Zelanko & S. Y. Kondr.: on <i>Porocyphus</i> 3-0-0	Etayo & Breuss 1998 Kondratyuk & Zelenko 2002 Matzer & Hafellner 1990		
<i>Sagediopsis</i>	6-0-0	Alstrup & Hawksworth 1990 Hafellner 1993 Hoffmann & Hafellner 2000 Triebel 1989 Triebel 1993		
Verrucariaceae				
<i>Bellemerella</i>	3-0-0	Calatayud & Navarro-Rosinés 2001 Navarro-Rosinés & Roux, 1997a		
<i>Clauzadella</i>	1-0-0	Navarro-Rosinés & Roux 1996		
<i>Endococcus</i>	apiciicola ...: on <i>Usnea</i> macrosporus ...: on <i>Rhizocarpon</i> pallidosporus Etayo: on <i>Pseudocyphellaria</i> parentus Etayo: on <i>Pseudocyphellaria</i> parmeliarum Etayo: on <i>Parmelia saxatilis</i> pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i> 67-0-0	Alstrup 1996 Alstrup et al. 1994 David & Etayo 1995 Etayo 2002a Etayo & Breuss 2001 Etayo & Sancho 2008 Hafellner 1994a Hawksworth 1979c Hawksworth 1982a Matzer 1993 Santesson 1994b Sérusiaux et al. 1999 Triebel 1989	rugulosus : Culture obtained by Crittenden et al. (1995)	fusigera (Orange 17098): nrSSU+ITS+LSU: FJ645262
<i>Haleomyces</i>	1-0-0	Hawksworth & Esslinger 1993		
<i>Merismatium</i>	coccotremicola Etayo: on <i>Coccotrema</i> 9-0-0	Alstrup 1997 Alstrup & Hansen 2001 Etayo & Sancho 2008 Hertel & Rambold 1990 Triebel 1989		

<i>Muellerella</i>	antarctica Etayo: on <i>Hypogymnia antarctica</i> 10-0-0	Clauzade et al. 1989 Diederich 1986 Etayo & Sancho 2008 Hawksworth 1985 Triebel 1989	pygmaea : Culture obtained by Crittenden et al. (1995)	
<i>Norrinia</i>	2-0-0	Hawksworth 1980b Kondratyuk & Galloway 1995a		peltigericola (Palice 4369): nr LSU: AY300845 ; mtLSU: AY779307 ; nrSSU: AY779280 ; mtSSU: AY300896
<i>Phaeospora</i>	dermatocarponis (R. G. Werner) S. Kondr.: on ... 15-0-0	Alstrup & Hansen 2001 Alstrup & Olech 1996 Hawksworth 1980b Horáková & Alstrup 1994 Kondratyuk & Zelenko 2002 Øvstedal & Hawksworth 1986 Sérusiaux et al. 1999		
<i>Placocarpus</i>	0-1-0	Breuss 1985		
<i>Teloggalla</i>	1-0-0	Hoffmann & Hafellner 2000		
<i>Verrucaria</i>	1-13-0	Alstrup & Hansen 2001 Breuss 1998 Hoffman & Hafellner 2000 Ménard & Roux 1991 Orange 2002 Rambold & Triebel 1992 Zehetleitner 1978		
Incertae sedis				
<i>Pseudostigmidium</i>	biseptatum Etayo: on <i>Pseudocyphellaria</i> 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>	Etayo & Sancho 2008		
<i>Stigmidium</i>	alectoriae (Lindsay) Etayo: on <i>Usnea</i> disconephromeum Etayo: on <i>Nephroma</i> <i>antarcticum</i> marinum (Deakin) Swinscow: on maritime	Alstrup 1993a Alstrup & Hawksworth 1990 Alstrup & Olech 1996 Calatayud & Triebel 1999 Calatayud & Triebel 2001		

	<p><i>Verrucaria</i></p> <p>Pharcidia maritima B. de Lesd.: on ...</p> <p>peltideae (Vain.) R. Sant.: on <i>Peltigera</i></p> <p>pumilum (Lettau) Matzer & Hafellner: on <i>Physcia</i></p> <p>ramalinae (Müll. Arg.) Etayo & Diederich: on <i>Ramalina</i></p> <p>spgazzinii Etayo: on <i>Pseudocyphellaria</i></p> <p>Pharcidia verrucariarum (Arnold) Sacc.: on <i>Verrucaria</i></p> <p>71-0-0 [icmadophilae is now in Sphaerellothecium!]</p>	<p>Clauzade et al. 1989</p> <p>Etayo 1994</p> <p>Etayo 2000</p> <p>Etayo 2002a</p> <p>Etayo & Sancho 2008</p> <p>Hafellner 1982c</p> <p>Hafellner 1994a</p> <p>Hafellner 1994b</p> <p>Hafellner & Obermayer 1995</p> <p>Hawksworth 1975b</p> <p>Matzer 1996</p> <p>Matzer & Hafellner 1990</p> <p>Molitor & Diederich 1997</p> <p>Roux & Navarro-Rosinés 1994</p> <p>Roux & Triebel 1994</p> <p>Roux et al. 1995</p> <p>Santesson 1989</p> <p>Santesson 1993b</p> <p>Triebel 1989</p> <p>Triebel & Scholz 2001</p> <p>Roux et al. 1998</p>		
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ASCOMYCOTA				
Mycocaliciales				
Mycocaliciaceae				
<i>Chaenothecopsis</i>	30-0-0	<p>Clauzade et al. 1989</p> <p>Tibell 1991b</p> <p>Tibell 1998</p> <p>Tibell & Ryman 1995</p>	viridireagens : CBS (14 records); UPSC	<p>consociata: nrITS+LSU: AY795851</p> <p>consociata: nrLSU: DQ008999</p> <p>epithallina (Tibell 22793): nrITS+LSU: AY795856</p>

				<p>epithallina (Tibell 22705): nrITS+LSU: AY795855</p> <p>epithallina (Tibell 22716): nrLSU: AY795994</p> <p>pusiola (Tibell 15884): nrITS+LSU: AY795865</p> <p>pusiola (Tibell 19258): nrLSU: AY795999</p> <p>savonica (Tibell 15876): nrITS+LSU: AY795868; nrLSU: AY796000</p> <p>savonica: nrSSU: U86691</p> <p>subparoica: nrITS+LSU: AY795869</p> <p>viridireagens (Tibell 22803): nrITS: AY795872; nrLSU DQ013257</p>
Sphinctrinaceae				
<i>Sphinctrina</i>	6-0-0	Kalb 2001 Löfgren & Tibell 1979 Purvis et al. 1992	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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ASCOMYCOTA				
Lichinales				
Lichinaceae				
<i>Lichinodium</i>	0-1-0	Rambold & Triebel 1992		
<i>Phylliscum</i>	0-1-0	Rambold & Triebel 1992		

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ASCOMYCOTA				
Lecanorales				
Acarosporaceae				
<i>Acarospora</i>	0-22-0	Rambold & Tiebel 1992		
<i>Polysporina</i>	2-1-0	Poelt & Vězda 1981 Rambold & Triebel 1992		
<i>Thelocarpon</i>	1-4-0	Rambold & Triebel 1992		
Caliciaceae				
<i>Calicium</i>	0-1-0	Clauzade et al. 1989		
<i>Cyphelium</i>	1-1-1	Tibell 1971		
Candelariaceae				
<i>Candelariella</i>	0-4-0	Rambold & Triebel 1992		
Catillariaceae				
<i>Catillaria</i>	2-1-0	Etayo 2000		

		Hafellner 1982b Rambold & Triebel 1992		
<i>Halecania</i>	0-2-0	Mayrhofer 1987b		
<i>Toninia</i>	ualae Etayo: lichenicolous lichen on <i>Pseudocyphellaria</i> and <i>Nephroma antarcticum</i> 7-37-0	Etayo & Sancho 2008 Rambold & Triebel 1992 Timdal 1992		plumbina : nrITS: AF282107 verrucarioides : nrITS: AF282128
Dactylosporaceae				
<i>Dactylospora</i>	inconspicua Etayo: on <i>Menegazzia</i> 37-0-0	Alstrup et al. 1994 Alstrup & Hawksworth 1990 Alstrup & Olech 1993 Clauzade et al. 1989 Etayo 1991 Etayo & Sancho 2008 Hafellner 1979 Hafellner 1985a Kondratyuk & Galloway 1995c Olech & Alstrup 1996 Sérusiaux & Wessels 1984 Triebel 1989	lobariella : CBS 300.80 parasitica : CBS 101579 parasitica : Culture obtained by Crittenden et al. (1995)	lobariella (AFTOL-ID 2137, CBS 300.80): nrSSU: FJ176837 ; nrLSU: FJ176891
Fuscideaceae				
<i>Lettauia</i>	3-0-0	Etayo 2002 Hawksworth & Santesson 1990 Ihlen & Tønberg 1996		
Hymeneliaceae				
<i>Aspicilia</i>	0-1-0	Rambold & Triebel 1992		
Lecanoraceae				
<i>Bryonora</i>	0-1-0	Rambold & Triebel 1992		
<i>Calvitimela</i>	0-1-0	Rambold & Triebel 1992		
<i>Carbonea</i>	neuropogonis Etayo: on <i>Usnea aurantiaco-atra</i> 11-3-0	Alstrup et al. 1994 Etayo & Sancho 2008 Hafellner 1999 Rambold & Triebel 1992		supersparsa : nrSSU: AY567773 vitellinaria : nrITS and nrLSU: AY541239
<i>Lecanora</i>	1-11-0	Rambold & Triebel 1992		

<i>Lecidella</i>	0-5-0	Rambold & Triebel 1992		
<i>Miriquidica</i>	0-6-0	Rambold & Triebel 1992		
<i>Ramboldia</i>	0-1-0	Hafellner & Türk 1995		
Lecideaceae				
<i>Cecidonia</i>	2-0-0	Triebel & Rambold 1988		umbonella: nrLSU: AY532990 ; beta-tubulin: AY536768 xenophana: nrLSU: AY532991 ; beta-tubulin: AY536769
<i>Lecidea</i> s.l.	3-11-0	Rambold & Triebel 1992		
<i>Steinia</i>	0-1-0	Rambold & Triebel 1992		
Parmeliaceae				
<i>Phacopsis</i>	13-0-0	Hafellner 1987a Scholtz 1998 Triebel & Rambold 1988 Triebel et al. 1995		huuskonenii: nrITS (Phhuu): AF450283 huuskonenii (D41): nrSSU: AF450289 oxyspora (D169): nrITS: AF450287 oxyspora (D20): nrITS: AF450284 oxyspora (PhCop1): nrSSU: AF450290 vulpina (D132): nrITS: AF450285
<i>Protoparmelia</i>	0-6-0	Rambold & Triebel 1992		
Physciaceae				
<i>Buellia</i>	2-16-0	Bricaud & Roux 1991 Calatayud & Barreno 1995 Clauzade et al. 1989 Hafellner 1979 Hafellner & Poelt 1980 Rambold & Triebel 1992 Scheidegger 1987		
<i>Rinodina</i>	1-10-0	Alstrup & Hawksworth 1990 Rambold & Triebel 1992		
Pilocarpaceae				
<i>Micarea</i>	1-0-0	Rambold & Triebel 1992		

Porpidiaceae				
<i>Bellemeria</i>	0-1-0	Rambold & Triebel 1992		
<i>Immersaria</i>	0-2-0	Rambold & Triebel 1992		
<i>Mycobilimbia</i> s.l.	1-0-0	Rambold & Triebel 1992		
<i>Poeltiaria</i>	0-1-0	Rambold & Triebel 1992		
Psoraceae				
<i>Glyphopeltis</i>	0-1-0	Rambold & Triebel 1992		
<i>Psorula</i>	0-1-0	Rambold & Triebel 1992		
Ramalinaceae				
<i>Bacidia</i>	1-2-0	Rambold & Triebel 1992		
<i>Scutula</i>	miliaris (Wallr.) Trevis.: on ... nephromatis (Speg.) Etayo: on <i>Nephroma antarcticum</i> stereocaulorum (Anzi) Körber: on ... 11-4-0	Alstrup 1997 Alstrup & Hawksworth 1990 Clauzade et al. 1989 Etayo & Sancho 2008 Rambold & Triebel 1992 Triebel et al. 1997		krempelhuberi : mtSSU: AY567789 miliaris : mtSSU: AY567790
<i>Squamarina</i>	0-1-0	Rambold & Triebel 1992		
<i>Tephromela</i>	3-0-0	Rambold 1993		
Rhizocarpaceae				
<i>Epilichen</i>	1-2-0	Hafellner 1978 Triebel 1989		
<i>Rhizocarpon</i>	5-25-0	Rambold & Triebel 1992		
Teloschistaceae				
<i>Caloplaca</i>	0-37-0	Breuss 1990 Nimis et al. 1994 Olech & Søchting 1993 Rambold & Triebel 1992 Wetmore 1999		
Incertae sedis				
<i>Corticifraga</i>	chugachiana ...: on <i>Lobaria oregana</i> fuckelii (Rehm) D. Hawksw. & R. Sant.: on <i>Peltigera</i>	Etayo & Sancho 2008 Hawksworth & Santesson 1990		

	peltigerae ...: on <i>Peltigera</i> pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i> santessonii ...: on <i>Lobaria</i> and <i>Nephroma</i> 2-0-0			
<i>Corticiruptor</i>	corallinus Etayo: on <i>Pseudocyphellaria</i> 1-0-0	Etayo & Sancho 2008 Wedin & Hafellner 1998		
<i>Nimisiostella</i>	1-0-0	Calatayud et al. 1997		
<i>Scoliciosporum</i>	pseudocyphellariae Etayo: lichenicolous lichen on <i>Pseudocyphellaria</i>			
<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; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i>)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
ASCOMYCOTA				
Agyriales				
Agyriaceae				
<i>Hafellnera</i>	0-1-0	Rambold & Triebel 1992		
<i>Rimularia</i>	0-3-0	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				
Odontotremataceae				
<i>Odontotrema</i>	bryoriae Diederich & Etayo: on <i>Bryoria cuculare</i> (Norman) Diederich: on <i>Parmeliopsis</i> figulinum (Norman) Diederich: on <i>Lecanora polytropa</i> intermedium Diederich, Zhurb. & Etayo: on <i>Thamnolia vermicularis</i> japewiae Zhurb. & Diederich: on <i>Japewia tornöensis</i> lecanorae Diederich & Marson: on <i>Lecanora melaneliae</i> Diederich & Zhurb.: on <i>Melanelia hepatizon</i> and <i>Melanohalea olivacea</i> navarinoi Etayo: on <i>Micarea magellanica</i> ochrolechia Diederich, Holien & Zhurb.: on <i>Ochrolechia</i> pertusariae Etayo, Diederich & Coppins: on <i>Pertusaria hymenea</i> rhizocarpicola Zhurb., Diederich & Himelbrant: on <i>Rhizocarpon</i> gr. <i>geographicum</i> santessonii Zhurb., Etayo & Diederich on <i>Thamnolia vermicularis</i> sipei (Grumann) Diederich: on <i>Letharia thamnoliae</i> Zhurb., Diederich & Etayo: on <i>Thamnolia</i> sp. 1 : on <i>Mycoblastus</i>	Diederich et al. 2002 Etayo & Sancho 2008 Zhurbenko 2009b		

	sp. 2: on <i>Usnea</i> sp. 3: on <i>Lecanora</i>			
<i>Paraethariicola</i>	aspiciliae Calat., Etayo & Diederich: on <i>Aspicilia</i>	Calatayud et al. 2001a		
Stictidaceae				
<i>Nanostictis</i>	christiansenii Etayo: on <i>Lobaria pulmonaria</i> nephromatis Etayo: on <i>Nephroma antarcticum</i> peltigerae M.S. Christ.: on <i>Peltigera</i> pluriseptata Etayo: on <i>Lobaria</i> gr. <i>pallida</i> pseudocyphellariae Sherwood: on <i>Pseudocyphellaria</i> stictae Etayo: on <i>Sticta</i>	Etayo 2002a Etayo & Diederich 1996b Etayo & Sancho 2008		
<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;	Significant literature	Cultures (with accession numbers when known; culture collection	Sequences (with accession numbers)
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	<i>lichenicolous lichens or facultative lichenicolous fungi in italics)</i>		links)	
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>Pezizella</i>	epithallina (W. Phillips & Plowr.) Sacc.: on <i>Peltigera</i> stictae Etayo: on <i>Sticta</i> ucrainica S. Kondr.: on <i>Cladonia</i>	Etayo 2002a Hawksworth 1980b Kondratyuk & Galloway 1995a		
Hyaloscyphaceae				
<i>Lachnella</i>	tetraspora (Henn.) Vouaux: on <i>Physcia integrata</i>	Clauzade et al. 1989 Vouaux 1914		
<i>Polydesmia</i>	lichenis Huhtinen & R. Sant.: on <i>Peltigera</i>	Huhtinen & Santesson 1997		
Incertae sedis				
<i>Cecidioskyttea</i>	osorioi Etayo: on <i>Concamerella fistulosa</i>	Etayo & Osorio 2004		
<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>	Diederich & Etayo 2000 Diederich et al. 2010		

	<p>adnata Hafellner & Nav.-Ros.: on <i>Placidium</i></p> <p>fuscatae Hafellner & Obermayer: on <i>Acarospora fuscata</i></p> <p>groenlandiae (Alstrup & D, Hawksw.) Triebel & Hafellner: on <i>Caloplaca</i> and <i>Fulgensia</i></p> <p>heppiae (Nav.-Ros., Hladun & Llimona) Diederich & Ertz: on <i>Heppia</i></p> <p>muralicola Halici: on <i>Lecanora muralis</i> (probably belongs to <i>Unguiculariopsis</i>)</p> <p>pertusariae Diederich & Etayo: on <i>Pertusaria glaucomela</i> and <i>P. ophthamiza</i></p> <p>phaeophysciae Diederich, Ertz & Etayo: on <i>Phaeophyscia</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. placodiformis</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</p>	Alstrup & Hansen 2001 Rambold & Triebel 1990		

	<i>Trapeliopsis</i>			
<i>Pleoscutula</i>	arsenii Vouaux: on <i>Heterodermia</i> hypotrachynae Etayo & Diederich: on <i>Hypotrachyna</i>	Etayo 2002a Hafellner 1982b		
<i>Protounguicularia</i>	nephromatis (Zhurb. & Zavarzin) Huhtinen, D. Hawksw. & Ihlen: on <i>Nephroma</i>	Huhtinen et al. 2008 Zhurbenko 2007		
<i>Rhymbocarpus</i>	boomii Etayo & Diederich: on <i>Dirina</i> <i>ceratoniae</i> cruciatus (Sherwood, D. Hawksw. & Coppins) Etayo & Diederich: on <i>Diploicia</i> <i>canescens</i> ericetorum (Körb.) Etayo, Diederich & Ertz: on <i>Dibaeis baeomyces</i> fuscoatrae (Hafellner) Diederich & Etayo: on <i>Lecidea fuscoatra</i> geographici (J. Steiner) Vouaux: on <i>Rhizocarpon</i> makarovae Diederich & Etayo: on <i>Porpidia</i> neglectus (Vain.) Diederich & Etayo: on the <i>Lepraria neglecta</i> group pertusariae Diederich, Zhurb. & Etayo: on <i>Pertusaria panyrga</i> pubescens (Etayo & Diederich) Diederich & Etayo: on <i>Lepraria</i> rocellae (Etayo, Paz-Bermúdez & Diederich) Etayo, Diederich & Ertz: on <i>Roccella</i> stereocaulorum (Alstrup & D. Hawksw.) Etayo & Diederich: on <i>Stereocaulon</i>	Diederich & Etayo 2000 Diederich et al. 2010		
<i>Skyttea</i>	anzia Etayo & Diederich: on <i>Anzia</i> arenicola Alstrup & E. S. Hansen: probably not a <i>Skyttea</i> and not lichenicolous buelliae Sherwood, D. Hawksw. & Coppins: on <i>Buellia punctata</i>	Alstrup & Hansen 2001 Diederich & Etayo 2000 Diederich & Etayo 2004 Etayo 2002a Etayo & Sancho 2008 Hafellner 2000	nitschkei : Culture obtained by Crittenden et al. (1995)	

caesii Diederich & Etayo: on *Mycoblastus*
(incl. *M. caesius*)
carbonea Diederich & Etayo: on *Carbonea*
montevidensis
cismonicae Hafellner: on *Loxospora*
dacampiae Zhurb.: on *Dacampia hookeri*
elachistophora (Nyl.) Sherwood & D.
Hawksw.: on cf. *Tylothallis biformigera*
fusispora Sherwood, D. Hawksw. & Coppins:
on *Ochrolechia*
gregaria Sherwood, D. Hawksw. & Coppins:
on *Mycoblastus fucatus*
hawksworthii Diederich: on *Verrucaria*
lecanorae Diederich & Etayo: on *Lecanora*
mayrhofer Diederich & Etayo: on *Pertusaria*
melanospora
megalosporae Etayo & Diederich: on
Megalospora tuberculosa
nitschkei (Körb.) Sherwood, D. Hawksw. &
Coppins: on *Thelotrema lepadinum*
pertusariicola Diederich & Etayo: on
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

	<p><i>Tephromela</i> thelotrematis Diederich & Etayo: on <i>Thelotrema lepadinum</i> violacea Etayo: on <i>Tephromela</i> viridis D. Hawksw. & Coppins: on cf. <i>Micarea denigrata</i></p>			
<i>Skyttella</i>	<p>mulleri (Willey) D. Hawksw. & R. Sant.: on <i>Peltigera</i></p>	Hawksworth & Santesson 1988		
<i>Spirographa</i>	<p>fusisporella (Nyl.) Zahlbr.: on diverse lichens</p>	Diederich 2004 Sherwood-Pike 1987		
<i>Unguiculariopsis</i>	<p>acrocordiae (Diederich) Diederich & Etayo: on <i>Acrocordia gemmata</i> ahtii D. Hawksw., D. J. Galloway & S. Y. Kondr.: on <i>Pseudocyphellaria</i> cribriformis (Norman) Alstrup & D. Hawksw.: on <i>Pertusaria dactylina</i> damingshanica W. Y. Zhuang: on unidentified lichen on bamboo hispidula Etayo: on <i>Psoroma hispidulum</i> lesdainii (Vouaux) Etayo & Diederich: on <i>Lecanora saligna</i> lettaui (Grummann) Coppins: on <i>Evernia</i> <i>prunastri</i> lobariellum S. Y. Kondr. & D. J. Galloway: on <i>Lobaria</i> macrocarpa Etayo: on <i>Pseudocyphellaria</i> manriquei Etayo: on <i>Lobaria pulmonaria</i> refractiva (Coppins) Coppins: on <i>Bilimbia</i> thallophila (P. Karst) W. Y. Zhuang: on <i>Lecanora</i> trieregia S. Y. Kondr. & D. J. Galloway: on <i>Sticta</i> [see also <i>Llimoniella muralicola</i> Halici: on</p>	<p>Alstrup & Hawksworth 1990 Coppins 1988 Diederich & Etayo 2000 Etayo & Diederich 1996b Etayo & Sancho 2008 Kondratyuk & Galloway 1995a Kondratyuk & Galloway 1995b Kondratyuk et al. 1994 Zhuang 2000</p>		

Lecanora muralis]

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

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*

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*

obsкуроides (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 *Aspicilia calcarea*, *A. cinerea*
and *A. contorta*

wasseri S.Y. Kondr.: on *Caloplaca*

	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>	1-0-0	Clauzade et al. 1989 Hawksworth 1980b		
Xylariales				
Xylariaceae				
<i>Anthostomella</i>	1-0-0	Clauzade et al. 1989		

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	Species (lichenicolous fungi in bold ; <i>lichenicolous lichens or facultative</i> <i>lichenicolous fungi in italics</i>)	Significant literature	Cultures (with accession numbers when known; 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>	1-0-0	Etayo 2002a		
<i>Nectriopsis</i>	silvaustralis Etayo: on <i>Pseudocyphellaria</i> 16-0-0	Alstrup 1996 Alstrup & Svane 1998 Aptroot et al. 1997 Cole & Hawksworth 2001 Diederich & Puntillo 1995 Etayo 2002a Etayo & Sancho 2008 Samuels 1988 Sérusiaux et al. 1999	lecanodes : ATCC MYA-3179 lecanodes : CBS 102482 parmeliae : ATCC 200561 parmeliae : ATCC 200825	parmeliae (ATCC 200561): nrSSU: AF289657

<i>Paranectria</i>	3-0-0	Clauzade et al. 1989 Hawksworth 1982a Rossman et al. 1999	oropensis : CBS 115018	
<i>Pronectria</i>	fragmospora Etayo: on <i>Usnea</i> invisibilis Etayo: on <i>Nephroma antarcticum</i> occulta Etayo: on <i>Usnea</i> 27-0-0	Etayo 2002a Etayo & Sancho 2008 Lowen 1995 Rossman et al. 1999	oligospora : Culture RL929-92 obtained by Lowen (1995) santessonii : ATCC 62531 (listed as <i>Nectriella</i> <i>santessonii</i>)	
<i>Trichonectria</i>	australis Etayo: on <i>Usnea</i> rubefaciens (Ellis & Everh.) Diederich & Schroers: on <i>Parmelia</i> s.lat. [anamorph: <i>Acremonium rhabdosporum</i>] 5-0-0	Etayo 2002a Etayo & Sancho 2008 Sérusiaux et al. 1999 Hawksworth 1978b Rossman et al. 1999	rubefaciens (see anamorph <i>Acremonium rhabdosporum</i> under Anamorphic Ascomycota)	
<i>Xenonectriella</i>	aurantiaca Etayo: on <i>Pseudocyphellaria</i> humilis Etayo: on <i>Pseudocyphellaria</i> leptaleoides (Etayo) Etayo: on ... ornamentata (D. Hawksw.) Rossman: on <i>Peltigera</i> rosea Etayo: on <i>Pannaria</i> streimanii (S. Y. Kondr., Coppins & D. J. Galloway) Rossman: on <i>Lobaria</i> and <i>Sticta</i> 1-0-0	Etayo & Sancho 2008 Rossman et al. 1999		
Clavicipitaceae				
<i>Neobarya</i>	ciliaris ...: on <i>Heterodermia</i> darwiniana Etayo: on <i>Nephroma</i> <i>antarcticum</i> lichenophila ...: on <i>Cladonia</i> peltigerae ...: on <i>Peltigera</i> usneae ...: on <i>Usnea</i> 4-0-0	Etayo 2002a Etayo & Sancho 2008		

Niessliaceae				
<i>Niesslia</i>	cladoniicola D. Hawksw. & W. Gams: on <i>Cladonia</i> peltigericola (D. Hawksw.) Etayo: on <i>Peltigera</i> stictae ...: on <i>Sticta</i> tatjanae (S. Y. Kondr.) Etayo: on <i>Pseudocyphellaria</i> yaganae Etayo: on <i>Nephroma antarcticum</i> 7-0-0	Etayo 2002a Etayo & Diederich 1995 Etayo & Sancho 2008 Hawksworth 1975b Hawksworth 1979a	cladoniicola : CBS 960.73	

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ASCOMYCOTA				
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>	4-0-0	Alstrup et al. 1994 Alstrup & Hawksworth 1990 Eriksson & Santesson 1986 Hawksworth 1980b Triebel 1989		
<i>Rhagadostoma</i>	pannariae Etayo: on <i>Pannaria</i>	Etayo & Sancho 2008 Navarro-Rosinés et al. 1999		

	6-0-0	Navarro-Rosinés & Hladun 1994		
<i>Rhagadostomella</i>	1-0-0	Etayo 2002a		
Incertae sedis				
<i>Globosphaeria</i>	1-0-0	Hawksworth 1990b		
<i>Reconditella</i>	1-0-0	Matzer & Hafellner 1990		
<i>Roselliniella</i>	15-0-0	Aptroot et al. 1997 Etayo 2002a Hawksworth & Miadlikowska 1997a Hoffmann & Hafellner 2000 Matzer & Hafellner 1990		atlantica: nrLSU: GQ888763 R. sp. (DLH 2009a): nrLSU: GQ888764
<i>Roselliniomyces</i>	1-0-0	Matzer & Hafellner 1990		
<i>Roselliniopsis</i>	5-0-0	Alstrup et al. 1994 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; <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				
Incertae sedis				
Arthrorhaphidaceae				
<i>Arthrorhaphis</i>	2-3-1	Obermayer 1994 Santesson & Tønnsberg 1994		citrinella (Ihlen 1372): nrLSU: AY853357 ; mtSSU: AY853309 citrinella (Nordin 4905): nrLSU: AY853356 ; RPB1: DQ915592 ; mtSSU: AY853308

				citrinella (Lutzoni 97.06.29 ST2.1): nrLSU: AF279376 ; nrSSU: AF279375
Gomphillaceae				
<i>Gyalideopsis</i>	3-1-0	Etayo & Diederich 2001 Lücking 1997 Lücking & Sérusiaux 1998		
Melaspileaceae				
<i>Melaspilea</i>	8-0-0	Clauzade et al. 1989 Hawksworth 1982b Kondratyuk & Galloway 1995c		
Microcaliciaceae				
<i>Microcalicium</i>	conversum Tibell: on <i>Calicium</i> and <i>Chaenotheca</i> subpedicellatum (Schaerer) Tibell: on <i>Calicium</i> and <i>Chaenotheca</i> 3-0-1	Clauzade et al. 1989 Hawksworth 1981 Tibell 1978		
Myxotrichaceae				
<i>Myxotrichum</i>	1-0-0	Hawksworth 1979a		
Obryzaceae				
<i>Obryzum</i>	3-0-0	Aptroot & Sipman 2001 Hoffmann & Hafellner 2000		
Protothelenellaceae				
<i>Protothelenella</i>	pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i> 2-0-0	Etayo & Sancho 2008 Mayrhofer 1987a		
Strigulaceae				
<i>Strigula</i>	1-0-0	Etayo 2002		
Xanthopyreniaceae				
<i>Collemopsidium</i>	cephalodiorum (Triebel & Grube) Grube: on <i>Pilophorus cephalodiorum</i>	Grube 2005		

<i>Didymellopsis</i>	4-0-0	Grube & Hafellner 1990		
<i>Zwackhiomyces</i>	19-0-1	Alstrup 1993a Alstrup & Olech 1993 Aptroot et al. 1997 Grube & Hafellner 1990 Harris 1995 Hawksworth & Atienza 1994 Hawksworth & Miadlikowska 1997a Hoffmann & Hafellner 2000 Kondratyuk 1996b Miadlikowska & Alstrup 1995 Orange 2002		
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> hypotrachynae Etayo & Diederich: on <i>Hypotrachyna</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>	Diederich 1990 Diederich 2003 Diederich 2004a Etayo 2002 Etayo & Osorio 2004 Etayo & van den Boom 2006 Hafellner 1994a Hafellner et al. 2008 Hawksworth 1990a Ihlen & Wedin 2008 Kondratyuk 1996b Nordin 1964 Suija 2006 Wedin 1994		

	<p>prodiens (Harm.) Diederich & Hafellner: on <i>Hypogymnia</i></p> <p>secedens Wedin & R. Sant.: on <i>Pseudocyphellaria</i></p> <p>stereocaulorum Etayo & Diederich: on <i>Stereocaulon</i></p> <p>stictarum Etayo: on <i>Sticta</i></p> <p>stroblii Hafellner: on <i>Menegazzia terebrata</i></p> <p>suecicus (Kirschst.) Nordin: on <i>Ramalina</i></p> <p>tulasnei M.S. Cole & D. Hawksw.: on <i>Xanthoparmelia</i></p> <p>usneae Rabenh.: on <i>Usnea</i></p> <p>usneae var. tetraspora Etayo & Osorio: on <i>Usnea</i></p> <p>welwitschii Mont.: on <i>Sticta</i></p>			
<i>Gyrophthorus</i>	3-0-0	Hafellner & Sancho 1990 Hoffman & Hafellner 2000		
<i>Hymenobia</i>	insidiosa Nyl.: on <i>Lecidea</i>	Eriksson & Hawksworth 1991 Triebel 1989 (sub <i>Hymenobiella aporea</i>)		
<i>Hypotrachynicola</i>	1-0-0	Etayo 2002		
<i>Neolamya</i>	1-0-0	Keissler 1930		
<i>Pleosphaeria</i>	1-0-0	Henssen 1964		
<i>Rhynchomeliola</i>	1-0-0	Henssen & Kantvilas 1985		
<i>Sarcoexcipula</i>	pannariae Etayo: on <i>Pannaria pallida</i>	Etayo & Sancho 2008		
<i>Sarcopyrenia</i>	6-0-0	Navarro-Rosinés & Hladun 1990 Navarro-Rosinés et al. 1998b		
<i>Sphaeria</i>	sociella Nyl.: on <i>Trapelia coarctata</i>	Triebel 1989		
<i>Stegilla</i> (= <i>Stegia</i>)	1-0-0	Clauzade et al. 1989		
<i>Stellifraga</i>	cladoniicola Alstrup & Olech: on <i>Cladonia</i>	Alstrup & Olech 1993		
<i>Thamnogalla</i>	crombiei (Mudd) D. Hawksw.: on <i>Thamnolia</i>	Hoffmann & Hafellner 2000		
<i>Trichophyma</i>	2-0-0	Matzer 1996		

<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 & Tønberg: 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	Hawksworth 1979a		

	<p>foliicolous <i>Mazosia</i> and other Roccellaceae = 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>	llimonae 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>Asterophoma</i>	mazaediicola D. Hawksw.: on <i>Calicium</i>	Hawksworth 1981 Tibell 1991a		
<i>Bachmanniomyces</i>	pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i> uncialicola (Zopf) D. Hawksw.: on <i>Cladonia</i>	Etayo & Sancho 2008 Hawksworth 1981		
<i>Berkleasium</i>	parmeliellae Etayo & Diederich: on <i>Parmeliella testacea</i>	Etayo & Diederich 1995		
<i>Blarneya</i>	hibernica D. Hawksw., Coppins & P, James: lichenicolous on lichens with <i>Trentepohlia</i> when young, later an independent lichen	Hawksworth 1979b		
<i>Calongia</i>	gibelluloides D. Hawksw. & Etayo: on <i>Cladonia</i> and <i>Flavoparmelia caperata</i>	Hawksworth & Etayo 2010		
<i>Carnegieispora</i>	rimeliae Etayo & F. Berger: on <i>Parmotrema</i>	Etayo & Berger 2009		
<i>Cephalosporiopsis</i>	epiparasitaster Alstrup: on <i>Chaenothecopsis parasitaster</i>	Alstrup 1997		
<i>Chalara</i>	lichenicola M. S. Christ.: on <i>Cladonia</i> lobariae Etayo: on <i>Lobaria pulmonaria</i>	Christiansen 1993 Etayo & Diederich 1996b Etayo & Sancho 2008		

	pseudocyphellariae Etayo: on <i>Pseudocyphellaria</i>			
<i>Choreospora</i>	tibellii Constant. & R. Sant.: on foliicolous <i>?Echinoplaca</i>	Constantinescu & Santesson 1987		
<i>Cladoniicola</i>	staurospora Diederich, van den Boom & Aptroot: on <i>Cladonia</i>	Diederich et al. 2002 ('2001')		
<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> triangularis Diederich & Etayo: on <i>Pertusaria pertusa</i>	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> <i>ophthalmiza</i>	Heuchert & Braun 2006		
<i>Deichmannia</i>	verrucosa Alstrup & D. Hawksw.: on <i>Diploschistes</i>	Alstrup & Hawksworth 1990		
<i>Dendrodochium</i>	subeffusum Ellis & Galw.: on <i>Physcia</i> <i>millegrana</i> and possibly other lichens	Hawksworth 1979a		
<i>Dictyophrynella</i>	bignoniacearum Bat. & Caval.: on	Hawksworth 1979a		

	foliicolous lichens			
<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. strobilinoides</i>	Giralt & Hawksworth 1991		
<i>Diplosporium</i>	caudatum Speg.: on <i>Lobaria quercizans</i>	Hawksworth 1979a		
<i>Ellisemia</i>	lichenicola Heuchert & U. Braun: on <i>Pertusaria</i> and <i>Physconia</i>	Heuchert & Braun 2006		
<i>Endophragmiella</i>	hughesii D. Hawksw.: on <i>Lobaria pulmonaria</i>	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; ICMP; VKM; BCRC; ARS (NRRL); NCAM	nigrum : 131 nucleotide sequences and 11 protein sequences in GenBank
<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>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, incl. <i>Bullatina aspidota</i>	Hawksworth 1979a		
<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>Illosporopsis</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 : Culture (as <i>Bispora christiansenii</i>) obtained by 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>	lilimona e Boqueras & Diederich: on <i>Parmelina quercina</i> [<i>peltigerae</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>	Etayo & Diederich 1995 Hawksworth 1981 Hawksworth & Miadlikowska		

	<p>didymospora D. Hawksw. & Miadl.: on <i>Peltigera</i></p> <p>fennica Alstrup: on <i>Peltigera</i></p> <p>leprariae Etayo & Diederich: on <i>Lepraria</i></p> <p>malmedyensis Speg. & Roum.: on <i>Peltigera</i></p> <p>obscurior Gerber: on <i>Brodoa intestiniformis</i></p>	1997a		
<i>Lichenobactridium</i>	<p>pertusariae Diederich & Etayo: on <i>Pertusaria pertusa</i></p>	Etayo & Diederich 1995		
<i>Lichenocodium</i>	<p>cargillianum (Linds.) D. Hawksw.: on <i>Letharia, Parmotrema, Platismatia, Ramalina</i> and <i>Usnea</i></p> <p>christiansenii M. S. Cole & D. Hawksw.: on <i>Nodobryoria abbreviata</i></p> <p>echinosporum D. Hawksw.: on <i>Heterodea muelleri</i></p> <p>edgewoodensis Alstrup & M. S. Cole: on <i>Parmelia sulcata</i></p> <p>erodens M. S. Christ. & D. Hawksw.: on various lichens</p> <p>follmannii S. Y. Kondr. & D. J. Galloway: on <i>Lobaria pulmonaria</i></p> <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>Alstrup & Cole 1998</p> <p>Christiansen 1956</p> <p>Christiansen 1980</p> <p>Cole & Hawksworth 2004</p> <p>Diederich 1986</p> <p>Hawksworth 1977b</p> <p>Hawksworth 1981</p> <p>Kalb et al. 1995</p> <p>Kondratyuk & Galloway 1995b</p> <p>Kondratyuk et al. 1994</p>	<p>erodens: Culture obtained by Crittenden et al. (1995)</p> <p>lecanorae: Culture obtained by Crittenden et al. (1995)</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>			
<i>Lichenodiplis</i>	<p>crepsoae 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>pertusariicola (Nyl.) Diederich: on <i>Pertusaria</i></p> <p>poeltii S. Y. Kondr. & D. Hawksw.: on <i>Xanthoria parietina</i></p> <p>rinodinicola Kocourk. & K. Knudsen: on <i>Rinodina</i></p>	<p>Berger & Diederich 1996</p> <p>Diederich 2003</p> <p>Cole & Hawksworth 2001</p> <p>Hawksworth 1981</p> <p>Hawksworth & Dyko 1979</p> <p>Kalb 1990</p> <p>Knudsen & Kocourková 2009</p> <p>Kondratyuk 1996a</p>		
<i>Lichenodiplisiella</i>	makarevichiae S. Y. Kondr. & Kudratov: on <i>Teloschistes brevior</i>	Kondratyuk et al. 2002		
<i>Lichenohendersonia</i>	<p>squamarinae Calat. & Etayo: on <i>Squamarina</i></p> <p>uniseptata Etayo & Calatayud: on <i>Parmelina</i></p> <p>varians Calat. & Etayo: on <i>Rhizoplaca</i></p>	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 independant 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-Ortega: on <i>Tephromela</i> tuckerae V. Atienza & D. Hawksw.: on corticolous <i>Pertusaria</i> tuerkii Hafellner: on <i>Pertusaria glomerata</i>	Atienza 2002 Atienza & Hawksworth 1994 Atienza et al. 2009 Etayo & Sancho 2008 Hafellner 1994a		
<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>Niesslia cladoniicola</i>]	Hawksworth 1979		
<i>Monodictys</i>	anaptychia (Lindau) D. D. Hawksw.: on <i>Anaptychia</i> cellulosa S. Hughes [?= <i>lepraria</i> (Berk.) M.	Etayo & Diederich 1996b Hawksworth 1975a Hawksworth 1979a	lepraria : UAMH; DUM lepraria : CBS 533.77	

	B. Ellis]: on various crustose, corticolous lichens epilepraria Kukwa & Diederich: on <i>Lepraria</i>			
<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> caloplaca D. Hawksw.: on <i>Caloplaca cerina</i> cladoniicola Diederich, Kocourk. & Etayo: on <i>Cladonia</i> cytospora (Vouaux) D. Hawksw.: on various lichens denigricans Hafellner: on <i>Lecanora epibryon</i> dubia (Linds.) Sacc. & A. Trotter: on <i>Usnea</i> epiphyscia Vouaux: on <i>Phaeophyscia</i> everniae D. Hawksw.: on <i>Evernia prunastri</i> ficuzzae Brackel: on <i>Ramalina fraxinea</i> foliaceiphila Diederich, Kocourk. & Etayo: on <i>Cladonia</i>	Alstrup 1997 Brackel 2008 Calatayud & Etayo 2001 Diederich 1986 Diederich et al. 2007 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		

	<p>fuliginosa M. S. Cole & D. Hawksw.: on <i>Caloplaca trachyphylla</i></p> <p>grumantiana Zhurb. & Diederich: on <i>Cladonia</i></p> <p>lecanorina Diederich: on <i>Lecanora expallens</i></p> <p>lobariae Diederich & Etayo: on <i>Lobaria pulmonaria</i></p> <p>lobariicola Alstrup: on <i>Lobaria scrobiculata</i></p> <p>maculiformans Ihlen: on <i>Dibaeis baeomyces</i></p> <p>peltigerae (P. Karst.) D. Hawksw.: on <i>Peltigera</i></p> <p>physciicola Keissl.: on <i>Physcia</i> and <i>Physconia</i></p> <p>rozziana Etayo: on <i>Pseudocyphellaria</i></p>			
<i>Phyllosticta</i> s.l.	galligena F. Moreau: on <i>Parmotrema</i>	Moreau 1951		
<i>Psamma</i>	<p>inflata Earl.-Benn. & D. Hawksw.: on <i>Lepraria</i> and corticolous algae</p> <p>simplex Earl.-Benn. & D. Hawksw.: on various corticolous lichens and algae</p> <p>stipitata D. Hawksw.: on various corticolous lichens and algae</p>	Earland-Bennett & Hawksworth 1999a Hawksworth 1979a		
<i>Pseudocercospora</i>	lichenum (Keissl.) D. Hawksw.: on <i>Haematomma cismanicum</i>	Etayo 2002 Hawksworth 1979a		
<i>Pseudorobillarda</i>	peltigerae Diederich: on <i>Peltigera</i>	van den Boom et al. 1998		
<i>Pseudoseptoria</i>	usneae (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>	<p>collematis Vouaux: on <i>Collema tenax</i></p> <p>xanthoriae Diederich: on <i>Xanthoria</i></p>	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>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> 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>	Alstrup 1993a Berger 2000 Boqueras & Diederich 1993 Diederich 1990 Diederich & Scholz 1995 Etayo 1995b Etayo & Calatayud 1998 Etayo & Diederich 1995 Etayo & Diederich 1996a Etayo & Sancho 2008 Hafellner 1996b Hawksworth 1975a Hawksworth 1979a Konratyuk & Zelenko 2002	sphaerale : UAMH 4571; IMI 247000 sphaerale : Culture obtained by Hawksworth and Jones (1981)	

	<p>simplex D. Hawksw.: on corticolous <i>Pertusaria</i></p> <p>sphaerale (Ach.) Fr.: on <i>Pertusaria</i> [mainly <i>P. corallina</i>]</p> <p>tephromelarum Etayo & Calat.: on <i>Tephromela</i></p> <p>verrucisporum Alstrup: on <i>Aspicilia</i></p>			
<i>Sessiliospora</i>	bicolora D. Hawksw.: foliicolous lichens	Hawksworth 1979a		
<i>Sphaeromma</i>	[<i>furcatisetata</i> Matzer: on Porina = anamorph of <i>Keratosphaera furcatisetata</i>] [<i>mazosiae</i> H. B. P. Upadhyay: on <i>Mazosia</i> = anamorph of <i>Keratosphaera batistae</i>] [<i>porinae</i> Matzer: on <i>Porina</i> = anamorph of <i>Keratosphaera porinae</i>]	Matzer 1996		
<i>Spilodochium</i>	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</i> <i>batistae</i>]			
<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</i> <i>badia</i>]	Wedin & Hafellner 1998		
<i>Taeniolella</i>	beschiana Diederich: on <i>Cladonia</i> <i>breviuscula</i> (Berk. & M. A. Curtis) S.	Alstrup 1993b Alstrup & Hansen 2001 Alstrup & Hawksworth 1990		

Hughes: facultative lichenicolous
caespitosa M. S. Cole & D. Hawksw.: on
Pertusaria
christiansenii Aslstrup & D. Hawksw.: on
Stereocaulon
chrysothricis Diederich: on *Chrysothrix*
candelaris
cladinicola Alstrup: on *Cladonia* subgen.
Cladina
delicata M. S. Christ. & D. Hawksw.: on
various lichens
diederichiana Etayo & Calat.: on *Placopsis*
friesii (Hepp) Hafellner: on *Strigula*
stigmatella
ionaspisicola Alstrup & E. S. Hansen: on
Ionaspis odora
pertusariicola D. Hawksw. & H. Mayrh.: on
Pertusaria and possibly other lichens
phaeophysciae D. Hawksw.: on
Phaeophyscia orbicularis, possibly also on
Physcia and *Physconia*
pseudocyphellariae Etayo: on
Pseudocyphellaria
punctata M. S. Christ. & D. Hawksw.: on
Graphis scripta
rolfii Diederich & Zhurb.: on *Cetraria* and
Cetrariella
serusiauxii Diederich: on *Schismatomma*
decolorans and sterile crustose lichens with
Trentepohlia
strictae Alstrup: on *Cladonia stricta*
trapeliopseos Diederich: on *Trapeliopsis*
verrucosa M. S. Christ. & D. Hawksw.: on
Arthonia pruinata

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

<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 lichens	Hawksworth 1979a		
<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>Vagnia</i>	cirrififormis 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>	caloplacae Alstrup: on <i>Caloplaca</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>Vouauxiomyces</i>	brattii S. Y. Kondr.: on <i>Pseudocyphellaria</i> [<i>granulatae</i> Wedin: on <i>Pseudocyphellaria</i> = anamorph of <i>Abrothallus granulatae</i>] [<i>ramalinae</i> (Nordin) D. Hawksw.: on <i>Ramalina</i> = anamorph of <i>Abrothallus suecicus</i>] santessonii D. Hawksw.: on <i>Platismatia glauca</i> [possibly the anamorph of <i>Abrothallus cetrariae</i> or <i>A. parmiliarum</i>]	Hawksworth 1981 Kondratyuk 1996b Wedin 1994		

	[<i>truncatus</i> (B. de Lesd.) Dyko & D. Hawksw.: on <i>Flavoparmelia caperata</i> = anamorph of <i>Abrothallus microspermus</i>]			
<i>Xanthoriicola</i>	physciae (Kalchbr.) D. Hawksw.: on <i>Xanthoria</i>	Hawksworth 1979a Hawksworth & Punithalingam 1973		
<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; lichenicolous lichens or facultative lichenicolous fungi in italics)	Significant literature	Cultures (with accession numbers when known; culture collection links)	Sequences (with accession numbers)
BASIDIOMYCOTA				
Pucciniomycotina				
Agaricostilbales				
Chionosphaeraceae				
<i>Chionosphaera</i>	cf. apobasidialis Cox: on various lichens coppinsii P. Roberts: on various lichens lichenicola Alstrup, Sutton & Tønsberg: 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				
Tremellales				
Syzygosporaceae				
<i>Syzygospora</i>	bachmannii Diederich & M. S. Christ.: on <i>Cladonia</i> parmeliicola Diederich: on <i>Hypotrachyna</i> physciacearum Diederich: on <i>Heterodermia, Physcia</i> and <i>Physconia</i>	Diederich 1996		
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	
<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>	Diederich 1996 Diederich 2003 Diederich 2004d Diederich 2007a Diederich 2007b Sérusiaux et al. 2003		

everniae Diederich: on *Evernia mesomorpha*
graphidastrae Diederich: on *Graphidastra*
haematommatis Diederich: on
Haematomma
harrisii Diederich: on *Polymeridium* and
Trypethelium
hypocenomycis Diederich: on
Hypocenomyce
hypogymniae Diederich & M. S. Christ.: on
Hypogymnia
leptogii Diederich: on *Leptogium*
lethariae: on *Letharia vulpina*
lichenicola Diederich: on *Mycoblastus*
fucatus
lobariacearum Diederich & M. S. Christ.:
on *Lobaria* and *Pseudocyphellaria*
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*

	<p>phaeographidis Diederich, Coppins & Bandoni: on <i>Phaeographis</i></p> <p>phaeographinae Diederich & Aptroot: on <i>Phaeographina</i></p> <p>phaeophysciae Diederich & M. S. Christ.: on <i>Phaeophyscia</i></p> <p>protoparmeliae Diederich & Coppins: on <i>Protoparmelia</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>			
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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				
Agaricomycotina				
Agaricales				
Hygrophoraceae				

<i>Arrhenia</i>	peltigerina (Peck) Redhead, Lutzoni, Moncalvo & Vilgalys: on <i>Peltigera</i>	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) Raithelh.: on <i>Cladonia</i> and <i>Peltigera</i> <i>xerophila</i> (Lüthi & Röllin) Raithelh.: 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>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