Aug 30 2017

	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				
ARTHONIOMYCETES				
Arthoniales				
Arthoniaceae				
Arthonia s. lat. [incl. anam. *Helicobolomyces* and *Subhysteropycnis*]	**abrothallina** Nyl.: on *Pseudocyphellaria* **agelastica** R. C. Harris & Lendemer: on *Lecanora louisiana* **almquistii** Vain.: on *Amygdalaria*, *Koerberiella*, *Porpidia* and *Trapelia* **amylospora** Almq.: on *Porpidia* and *Farnoldia* **anatolica** Halıcı & Candan: on *Aspicilia contorta* **anjutii** S. Y. Kondr. & Alstrup: on *Teloschistes velifer* **apotheciorum** (A. Massal.) Almq.: on *Myriolecis albescens* **arthoniicola** Diederich & Aptroot: on *Arthonia catenulata* **aspiciliae** (Metzl.) S. Y. Kondr.: on *Aspicilia* **atropunctata** Vain.: on sterile foliicolous cf. *Echinoplaca* **ayseniae** Halıcı & Candan: on *Acarospora* [as '*aysenae*'] **badia** Wedin & Hafellner: on	Alstrup 1993a Alstrup & Cole 1998 Alstrup & Hansen 2001 Alstrup & Olech 1996 Alves et al. 2014 Aptroot et al. 1995 Aptroot et al. 1997 Berger & Zimmermann 2016 Brackel 2015 Calatayud et al. 1995 Calatayud et al. 2004a Candan & Halıcı 2009 Diederich 1995 Ertz et al. 2005 Etayo 1993 Etayo 1996 Etayo 2002a Etayo 2008 Etayo 2010b Etayo 2010c Etayo 2017 Etayo & Breuss 1998 Etayo & Diederich 2009 Etayo & Pérez-Ortega 2016 Etayo & Sancho 2008 Fleischhacker et al. 2016 Follmann & Werner 2003		**apotheciorum (**UPS:Frisch 11/Se23): *RPB2*: KJ851148; mtSSU: KJ850970 **biatoricola** (UPS:Thor 24350): *RPB2*: KJ851149; mtSSU: KJ850990 **graphidicola** (UPS:Frisch 10/Jp102): *RPB2*: KJ851034; mtSSU: KJ850980 **molendoi** (UPS:Frisch 11/Se36): nrLSU: KJ851051; *RPB2*: KJ851117; mtSSU: KJ851000 **neglectula** (UPS:Frisch 10/Se91): nrLSU: KJ851037; *RPB2*: KJ851118; mtSSU: KJ850989 **parietinaria**: nrLSU sequences reported in Fleischhacker et al. (2016) for four specimens **peltigerina** (UPS:Westberg Frisch 11/Se46): *RPB2*: KJ851122; mtSSU: KJ850998 **phaeophysciae** (UPS:Ertz 11/2): nrLSU: KJ851067; *RPB2*:

	Pseudocyphellaria granulata **biatoricola** Ihlen & Owe-Larss.: on *Biatora efflorescens* **caerulescens** (Almw.) R. Sant.: on *Lecanora varia* **calicii** Kantvilas & Wedin: on *Calicium tricolor* [as '*caliciae*'] **catillarioides** Etayo: on *Sticta* **ceracea** Etayo & Breuss: on *Peltigera polydactylon* [a homonym of *Arthonia ceracea* Fée] **cinnabarinula** Müll. Arg.: on foliicolous *Porina* and *Trichothelium* [anamorph: *Helicobolomyces lichenicola* Matzer] **circinata** Th. Fr.: on *Umbilicaria* **clemens** (Tul.) Th. Fr.: on *Rhizoplaca* **cohabitans** Coppins: on *Arthothelium reagens* **colombiana** Etayo: on *Cladonia* **coriifoliae** Wedin & Hafellner: on *Pseudocyphellaria coriifolia* **coronata** Etayo: on *Flavoparmelia caperata* **cryptotheciae** Matzer & R. Sant.: on foliicolous *Cryptothecia candida* **darbishirei** Follmann & Werner: on *Roccella nigerrima* **destruens** Rabenh.: on *Physcia* **destruens** var. **nana** Grube & Hafellner: on *Xanthoria fallax* **digitatae** Hafellner: on *Cladonia digitata* **digitispora** Etayo: on *Sticta* [as '*digitospora*'] **diorygmae** S. Joshi, D. K. Upreti & S.	Grube & Matzer 1997 Grube et al. 1995 Halıcı 2008 Halıcı & Candan 2009 Halıcı & Candan 2011 Hawksworth 1991a Hawksworth & Iturriaga 2006 Hertel 1969 Horáková 1994 Ihlen et al. 2004b Joshi et al. 2013 Kalb et al. 1995 Kantvilas & Vězda 1992 Kantvilas & Wedin 2015 Kärnefelt et al. 2002 Kondratyuk 1996a Kondratyuk & Zelenko 2002 Lendemer et al. 2016 Matzer 1996 Santesson 1993a Santesson et al. 2004 Triebel et al. 1991 Wedin & Kondratyuk 1997		KJ851112 **stereocaulina** (UPS:Westberg Frisch 11/Se48): nrLSU: KJ851062; mtSSU: KJ850999 **subfuscicola** (UPS:Frisch 11/Se15): *RPB2*: KJ851111; mtSSU: KJ850972 **subfuscicola** (UPS:Thor 11/1): *RPB2*: KJ851110; mtSSU: KJ850971

	Nayaka: on *Diorygma* **diploiciae** Calat. & Diederich: on *Diploicia canescens* **epicladonia** (Nyl.) Alstrup & Zhurb.: on *Cladonia* **epifarinosa** Etayo: on *Pannaria* **epimela** (Norman) I. M. Lamb: on *Buellia punctata* **epiphyscia** Nyl.: on *Physcia* **epitoninia** Halıcı & Candan: on *Toninia* **excentrica** Th. Fr.: on *Lepraria* and *Leprocaulon* **farinacea** (H. Olivier) R. Sant.: on *Ramalina farinacea* **flavicantis** Wedin & Hafellner: on *Pseudocyphellaria flavicans* **follmaniana** Diederich: on *Roccella* **fuscopurpurea** (Tul.) R. Sant.: on *Peltigera* **galactinaria** Leight.: on *Myriolecis* **garajonayi** Etayo: on *Porina* **gelidae** R. Sant.: on *Placopsis gelida* **glacialis** Alstrup & E. S. Hansen: on *Rhizoplaca melanophthalma* **glaucomaria** (Nyl.) Nyl.: on *Lecanora rupicola* **graphidicola** Coppins: on *Graphis scripta* **griseopruinosa** F. Berger & E. Zimm.: on *Pertusaria pseudocorallina* **haematommatum** Kalb & Hafellner: on *Haematomma* **haematostigma** Grube & Hafellner: on *Ramalina*			

	hawksworthii Halıcı: on *Dimelaena* **hertelii** (Calat., Barreno & V. J. Rico) Hafellner & V. John: on *Aspicilia* **heterodermiae** Etayo: on *Heterodermia* **hodgesii** Lendemer & R. C. Harris: on *Graphis lineola* **Mycopegrapha hymeniicola** Vain.: on *Lecanora* [a poorly known species] **ingaderiae** Follmann: on *Ingaderia* **insularis** Kantvilas & Wedin: on **Caloplaca eos** **intermedia** Matzer: on foliicolous *Phyllobiale* and *Porina* **intexta** Almq.: on *Lecidella* **invadens** Coppins: on *Schismatomma* **japewiae** Grube & Holien: on *Japewia* **lecanoricola** Alstrup & Olech: on *Lecanora populicola* [as '*lecanoriicola*'] **lecanorina** (Almq.) R. Sant.: on *Lecanora albella* **lepidiota** (H. Olivier) R. Sant.: on *Fuscopannaria praetermissa* **lepidophila** (Anzi) Clauzade, Diederich & Cl. Roux (comb. inval.): on *Cladonia* **lethariicola** Alstrup & M. S. Cole: on *Letharia* **leucomelodis** F. Berger & E. Zimm.: on *Leucodermia leucomelos* **lobariellae** Etayo: on *Lobariella* **lobothalliae** Etayo: on *Lobothallia alphoplaca* **maculiformis** Wedin & Hafellner: on *Pseudocyphellaria glabra* and *P.*			

	homoeophylla **marginalis** Etayo: on *Pseudocyphellaria* **mazosiicola** Matzer & R. Sant.: on foliicolous *Mazosia* **microsticta** Vain.: on foliicolous cf. *Fellhanera bouteillei*; a species of doubtful application **minuta** Wedin & Hafellner: on *Pseudocyphellaria coriifolia* **molendoi** (Frauenf.) R. Sant.: on *Caloplaca* and *Xanthoria* **navasiana** Etayo: on *Lepraria* **neglectula** Nyl.: on a sterile, sorediate crust (*Lepraria neglecta*?) **nephromiaria** Nyl.: on *Nephroma* **nideri** (J. Steiner) Clauzade, Diederich & Cl. Roux: on *Caloplaca* gr. *variabilis* **obscurior** Triebel: on *Pilophorus dovrensis* **oligospora** Vězda: on *Myriolecis crenulata* **pantherina** Etayo: on *Pertusaria pustulata* **parietinaria** Hafellner & A. Fleischhacker: on *Xanthoria parietina* **parmeliae** (C. W. Dodge & G. E. Baker) D. Hawksw. & Iturr.: on *Physcia caesia* **peltigerea** Th. Fr.: on *Peltigera* and *Solorina* **peltigerina** (Almq.) H. Olivier: on *Peltigera* and *Solorina* **pelvetii** (Hepp) H. Olivier: on *Pseudocyphellaria aurata* **pepei** Etayo & Pérez-Ortega: on *Parmelina* **phaeophysciae** Grube & Matzer: on *Phaeophyscia*			

	plectocarpoides (S. Y. Kondr. & D. J. Galloway) Wedin & S. Y. Kondr.: on *Pseudocyphellaria scabrosa* **polia** Etayo & R. Sant.: on *Diploicia canescens* **prominens** Follmann: on *Ingaderia gracillima* **protoparmeliae** Etayo: on *Protoparmelia badia* **protoparmeliopseos** Etayo & Diederich: on *Protoparmeliopsis muralis* **pseudocyphellariae** Wedin: on *Pseudocyphellaria multifida* **pseudopegraphina** Matzer: on foliicolous *Mazosia* **punctella** Nyl.: on *Diplotomma* **rangiformicola** Brackel & Etayo: on *Cladonia rangiformis* **rimeliicola** Diederich: on *Parmotrema* **rinodinicola** Candan & Halıcı: on *Rinodina oleae* **rubescens** (Arnold) Clauzade, Diederich & Cl. Roux: on *Buellia epipolia* **rufidula** (Hue) D. Hawksw., R. Sant. & Øvstedal: on *Umbilicaria* **sagenedii** Vězda & Kantvilas: on *Sagenidium molle* **sampaianae** (Diederich & Etayo) Ertz & Diederich: on *Fuscopannaria sampaiana* **santessoniana** Wedin & Hafellner: on *Pseudocyphellaria scabrosa* **santessonii** Matzer: on foliicolous *Porina* **semi-immersa** Wedin & Hafellner: on			

	Pseudocyphellaria **sherparum** Grube & Matzer: on *Lecanora sherparum* **squamarinae** Etayo: on *Squamarina lentigera* **stereocaulina** (Ohlert) R. Sant.: on *Stereocaulon* **stevensoniana** R. C. Harris & Lendemer: on *Haematomma accolens* **stictaria** Nyl.: on *Pseudocyphellaria* **stipitata** M. M. E. Alves, Aptroot & M. Cáceres: on unidentified sterile, sorediate, corticolous lichen (?*Bacidina*, *Fellhanera*) **subaggregata** Wedin & Hafellner: on *Pseudocyphellaria hirsuta* **subconveniens** Nyl.: on *Lobaria* **subfuscicola** (Linds.) Triebel: on *Lecanora albella* and *L. carpinea* **subvelutinae** (Vain.) R. Sant.: on foliicolous *Sporopodium* **sytnikii** S. Y. Kondr.: on *Xanthoria* **tavaresii** Grube & Hafellner: on *Anthracothecium* and *Pyrenula* **tetraspora** S. Y. Kondr. & Kärnefelt: on *Caloplaca chilensis* **thelotrematis** Coppins: on *Thelotrema* **tremelloides** Etayo: on *Heterodermia* **triebeliae** Zhurb.: on *Dactylina* **urceolata** (Elenkin) Calat., Barreno & V. J. Rico: on *Aspicilia* **varians** (Davies) Nyl.: on *Lecanora rupicola* and *L. helicopis* **versoeensis** Alstrup: on *Buellia punctata* [=			

	A. aggregata Alstrup, M. S. Christ. & Hafellner] **xanthoparmeliarum** Etayo: on *Xanthoparmelia*			
Briancoppinsia	**cytospora** (Vouaux) Diederich, Ertz, Lawrey & van den Boom: on parmelioid lichens, *Lecanora conizaeoides*, *Cladonia* and *Lepra*	Diederich et al. 2011b	**cytospora:** CBS 128707 TYPE CULTURE	**cytospora** (CBS 218707): nrLSU: JF830769; mtSSU: JF830771 **cytospora** (Ertz 15244): nrLSU: JF830770; mtSSU: JF830772
Lecanographaceae				
Lecanographa	**imitans** Werner & Follmann: on *Roccella humboldtiana* **occidentalis** Egea & Torrente: on *Roccellina* **rinodinae** (Vězda) R. Sant.: on *Phaeorrhiza nimbosa*	Egea & Torrente 1994 Follmann & Werner 2003		
Phacographa	**glaucomaria** (Nyl.) Hafellner: on *Lecanora rupicola* s. lat. (incl. *L. bicincta*) **protoparmeliae** Hafellner: on *Protoparmelia badia* **zwackhii** (Zwackh) Hafellner: on *Phlyctis*	Hafellner 2009		**glaucomaria** (UPS Frisch 11Se/33): nrLSU: KJ851028; *RPB2*: KJ851136; mtSSU: KJ851022 **protoparmeliae** (UPS Westberg and Frisch 11Se/49): nrLSU: KJ851075; *RPB2*: KJ851137 **zwackhii** (UPS Frisch 11/Se3): nrLSU: KJ851048; mtSSU: KJ851021 **zwackhii** (UPS Thor 26283): nrLSU: KJ851074; *RPB2*: KJ851135
Plectocarpon	**aequatoriale** Etayo: on *Sticta* **arthonioides** Diederich: on *Lobaria isidiophora* **bunodophori** Wedin, Ertz & Diederich: on *Bunodophoron patagonicum* **cladoniae** R. Sant.: on *Cladonia*	Aptroot et al. 1997 Cáceras et al. 2001 Diederich & Etayo 1994 Ertz & Diederich 2007 Ertz & van den Boom 2012 Ertz et al. 2003 Ertz et al. 2005 Etayo 2007		**lichenum** (Thor 26770): *RPB2*: KJ851140; mtSSU: KJ850988 **nephromeum** (UPS: Nordin 5813): RPB2: KJ851139; mtSSU: KJ851004

	concentricum Ertz, Diederich & Wedin: on *Pseudocyphellaria homeophylla* **coppinsii** Ertz & Diederich: *Pseudocyphellaria crocata* **cristalliferum** Christnach, Ertz & Diederich: on *Sticta* **diedertzianum** Y. Joshi, Upadhyay & Chandra: on *Flavoparmelia*, *Myelochroa*, *Parmotrema* and *Punctelia*. **dirinariae** Ertz & van den Boom: on *Dirinaria* **encausticum** (Nyl.) R. Sant.: on *Brodoa intestiniformis* **gallowayi** (S. Y. Kondr.) Ertz & Diederich: on *Pseudocyphellaria dissimilis* **gayanum** Etayo: on *Siphula* **hypogymniae** Zhurb. & Diederich: on *Hypogymnia bitteri* **lambinonii** Diederich & Etayo: on *Lobaria* **latisporum** Ertz, Diederich & Wedin: on *Pseudocyphellaria coriifolia* **leuckertii** (S. Y. Kondr. & D. J. Galloway) Ertz & Diederich: on *Pseudocyphellaria intricata* and *P. norvegica* **lichenum** (Sommerf.) D. Hawksw.: on *Lobaria anomala*, *L. anthraspis* and *L. pulmonaria* **linitae** (R. Sant.) Wedin & Hafellner: on *Lobaria linita* **macaronesiae** Diederich, Etayo & Sérus.: on *Lobaria immixta* and *L. macaronesiae* **melanohaleae** Christnach, Ertz & Diederich: on *Melanohalea ushuaiensis* **nephromeum** (Norman) R. Sant.: on	Etayo 2017 Etayo & Sancho 2008 Hawksworth & Galloway 1984 Joshi et al. 2016b Kukwa et al. 2012 Santesson 1993a Santesson 1994a Scholz 1998 Wedin & Hafellner 1998 Zhurbenko et al. 2008		

	Nephroma bellum **obtectum** Ertz & Diederich: on *Pseudocyphellaria encoensis* **opegraphoideum** Christnach, Ertz, Diederich & Wedin: on *Pseudocyphellaria homeophylla* and *P. multifida* **peltigerae** Zhurb., Ertz, Diederich & Miadl.: on *Peltigera leucophlebia* **pseudocyphellariae** Diederich: on *Pseudocyphellaria gilva* **pseudoleuckertii** Diederich, Ertz & Wedin: on *Pseudocyphellaria coriifolia* **pseudosticta** Fée: on *Pseudocyphellaria freycinetii* and *P. glabra* aff. **pseudosticta** Fée: on *Pseudocyphellaria intricata* **scrobiculatae** Diederich & Etayo: on *Lobari*(*n*)*a scrobiculata* **serusiauxii** Ertz & Diederich: on *Sticta* **stereocaulicola** Kukwa, Etayo & Flakus: on *Stereocaulon* **sticticola** Ertz, Wedin & Diederich: on *Sticta* **tibellii** Ertz & Diederich: on *Pseudocyphellaria rubella* **triebeliae** Diederich & Ertz: on *Lobaria quercizans* **usneae** Diederich & Etayo: on *Usnea exasperata* **usneaustralis** Etayo: on *Usnea* **venustum** Ertz, Coppins & Diederich: on *Nephroma papillosum* **violaceum** Ertz, R. Sant., Diederich & Wedin: on *Nephroma antarcticum*			

Opegraphaceae				
Opegrapha s. lat.	**agelaea** Fée: on pyrenocarpous lichen **anomea** Nyl.: on *Lepra*, *Ochrolechia*, *Pertusaria* and *Varicellaria* **bacidiae** R. Sant.: on '*Bacidia*' *brasiliensis* **blakii** Ertz & Diederich: on cf. *Ochrolechia* **brevis** Coppins: on *Thelotrema petractoides* **brevissima** Kalb & Hafellner: on *Haematomma* **briancoppinsii** S. Y. Kondr., L. Lőkös & J.-S. Hur: on *Porpidia albocaerulescens* **brigantina** Hafellner: on *Brigantiaea* **bryoriae** Zhurb.: on *Bryoria* **buelliae** Zhurb.: on *Buellia insignis* **chapsae** Etayo: on *Chapsa* **cladoniicola** Ertz & Diederich: on *Cladonia* **cryptotheciae** Matzer: on foliicolous *Cryptothecia* **diffracticola** R. C. Harris & Ladd: on *Bacidia diffracta* **ectolechiacearum** Matzer & R. Sant.: on foliicolous *Calopadia*, *Loflammia* and *Sporopodium* **encephalographoidea** Diederich & Aptroot: on *Pyrenula* **enterographae** Etayo & R. Sant.: on *Enterographa* **epiporina** Matzer: on foliicolous *Phyllobiale* and *Porina* **foreaui** (Moreau) Hafellner & R. Sant.: on *Heterodermia* **Leciographa furfuracea** (Anzi) Rehm:	Alstrup & Hawksworth 1990 Aptroot el al. 1997 Awasthi 1991 Berger & Zimmermann 2016 Clauzade et al. 1989 Coppins & Kondratyuk 1998 Ertz 2009 Ertz & Diederich 2003 Ertz et al. 2004 Ertz et al. 2005 Etayo 1996 Etayo 2007 Etayo 2010b Etayo 2017 Etayo & Aptroot 2006 Etayo & Sancho 2008 Follmann & Werner 2003 Hafellner 1985b Hafellner 1994a Hafellner 2007 Harris & Ladd 2007 Isbrand & Alstrup 1992 Kalb & Elix 1995 Kalb et al. 1995 Kondratyuk & Galloway 1995c Kondratyuk & Kudratov 2002 Kondratyuk et al. 2015 Kondratyuk et al. 2016b Lücking 1998 Matzer 1996 Navarro-Rosinés & Hladun 1995 Orange 2002 Triebel 1989 Vondrák & Kocourková 2008 Zhurbenko 2009b Zhurbenko 2013a Zhurbenko & Vershinina 2014		

	on *Lecanora rupicola* and *Rhizocarpon* [a poorly known species] **geographicola** (Arnold) Hafellner: on *Rhizocarpon* **gregalis** Vain.: on pyrenocarpous lichen **Leciographa gyrolophii** (A. Massal.) Vouaux: on *Dictyonema* [a poorly known species] **hafellneri** E. Zimm., Etayo & F. Berger: on *Placopsis gelida* **hellespontica** Vondrák & Kocourk.: on *Caloplaca aurantia* **insidens** (J. Steiner) S. Y. Kondr.: on *Caloplaca* and *Verrucaria* **invadens** Etayo: on *Pannaria farinosa* **kalbii** Matzer: on foliicolous *Byssoloma* **lamyi** (Nyl.) Triebel: on corticolous *Lecanora* **lichenicola** Thor, Lücking & Tat. Matsumoto: on *Porina* **lopezariae** Etayo & Sipman: on *Lopezaria* **maligna** Triebel: on *Lecidea fuscoatra* **matzeri** Lücking: on foliicolous *Amazonomyces sprucei* **mazosiae** Matzer: on foliicolous *Mazosia* **melanospila** Müll. Arg.: on *Parmotrema* **Leciographa nephromatis** Stein: on *Nephroma* **nigeriensis** C. W. Dodge: on *Thelotrema* **parasitica** (A. Massal.) H. Olivier: on *Aspicilia calcarea* **perturbans** Follmann: on *Ingaderia pulcherrima*			

	pertusariicola Coppins & P. James: on *Pertusaria leioplaca* **phaeophysciae** R. Sant., Diederich, Ertz & Christnach: on *Phaeophyscia hispidula* **phlyctidicola** (Vouaux) Etayo: on *Phlyctis* **phyllobathelii** Matzer & R. Sant.: on foliicolous *Phyllobathelium* **phylloporinae** Müll. Arg.: on foliicolous *Porina* **physcidiae** Kalb & Elix: on *Physcidia australasica* **pigozziana** Etayo & Aptroot: on *Thelotrema* **plectocarpoidea** Diederich: on *Phaeographis* **porinicola** Matzer: on foliicolous *Phyllobiale* and *Porina* **pulvinata** Rehm: on *Dermatocarpon*, possibly also on *Catapyrenium*, *Endocarpon* and *Staurothele* **pulvinata** var. **placidiicola** Zhurb.: on *Placidium* **reactiva** (Alstrup & D. Hawksw.) Etayo & Diederich: on *Hymenelia lacustris* **reinkellae** Follmann: on *Roccella lirellina* **romsae** S. Y. Kondr. & Kudratov: on *Staurothele areolata* **rupestris** Pers.: on *Verrucaria* [incl. *O. centrifuga*] aff. **rupestris 1** [Vondrák & Kocourková 2008]: on *Caloplaca cirrochroa* aff. **rupestris 2** [Vondrák & Kocourková 2008]: on *Caloplaca variabilis*			

	rotunda Hafellner: on *Physconia distorta* **rouxiana** Nav.-Ros. & Hladun: on *Polyblastia nidulans* **sipmanii** Matzer: on foliicolous *Porina* **sphaerophoricola** Isbrand & Alstrup: on *Sphaerophorus globosus* **stellanigra** Etayo: on *Sticta* **stereocaulicola** Alstrup & D. Hawksw.: on *Stereocaulon* **stigmodes** Nyl.: on *Porina* **strigulae** Matzer & R. Sant.: on foliicolous *Strigula* **submaritima** Hafellner: on *Tephromela atra* **tenuior** Stirt.: on *Thelotrema* **thelotrematis** Coppins: on *Thelotrema lepadinum* and *T. macrosporum* **uniseptata** Matzer: on foliicolous *Strigula* **velata** (Müll. Arg.) Vain.: on foliicolous *Actinoplaca*, *Calenia*, ?*Echinoplaca* and *Gyalectidium* **verseghyklarae** S. Y. Kondr., L. Lõkõs & J.-S. Hur: on *Ochrolechia pallescens* **vulpina** Vondrák, Kocourk. & Tretiach: on *Caloplaca erodens*			
Paralecanographa	**grumulosa** (Dufour) Egea & Torrente [incl. *L. hemisphaerica* (Laundon) Egea & Torrente]: on *Roccella*, rarely on *Dirina*, *Gorgadesia* or *Opegrapha*	Egea & Torrente 1994		**grumulosa** (Ertz 13568): nrLSU: HQ454556; *RPB2*: HQ454696 **grumulosa** (Ertz 13565): nrLSU: HQ454555; *RPB2*: HQ454695 **grumulosa** (Ertz 13558): nrLSU: HQ454554; *RPB2*: HQ454694 **grumulosa** (Tehler 9031): nrLSU: HQ454553; *RPB2*:

				HQ454693 **grumulosa** (Tehler 9010): nrLSU: HQ454552; RPB2: HQ454692 **grumulosa** (Tehler 9809): nrLSU: HQ454542; RPB2: HQ454682 **grumulosa** (Tehler 9028): nrLSU: HQ454541; RPB2: HQ454681
Roccellaceae				
Enterographa	**bagliettoae** F. Seavey & J. Seavey: on *Bagliettoa* **epigraphis** Etayo & Sipman: on *Graphis* **epiphylla** (Sérus.) Ertz, Diederich & Sparrius: on foliicolous *Coenogonium flavicans* **mazosiae** Matzer & R. Sant.: on foliicolous *Mazosia* **osagensis** C. A. Morse: on *Bacidina* **punctata** Ertz & Diederich: on *Lobaria*	Ertz el. 2005 Etayo 2017 Matzer 1996 Morse 2013 Seavey et al. 2017		
Mazosia	**adelphoparasitica** Matzer: on foliicolous *Mazosia*	Matzer 1996		
Sigridea	**labyrinthica** (Follmann) Ertz & Diederich: on *Roccella portentosa*	Ertz et al. 2005		
Incertae sedis				
Arthophacopsis	**parmeliarum** Hafellner: on *Parmelia* s. str.	Hafellner 1998a		
Arthothelium	**hymeniicola** Ertz & Friday: on *Bacidia* (hymenium)	Ertz & Fryday 2017		
Cresponea	**lichenicola** Aptroot & M. Cáceres: on *Pyrenula*	Cáceres et al. 2014		
Mixtoconidium	**insidiens** (Vouaux) Etayo & van den	Ertz & Diederich 2007 Etayo 1995a		

	Boom: on *Ramalina fraxinea* **nashii** (Hafellner) Etayo & van den Boom: on *Niebla robusta*	van den Boom & Etayo 2017		
Paradoxomyces	**nymanii** Matzer: on foliicolous *Strigula*	Matzer 1996		
Perigrapha	**lobariae** Zhurb.: on *Lobaria japonica* agg. **nitida** Ertz, Diederich, Christnach & Wedin: on *Pseudocyphellaria glabra* **phaeophysciae** Etayo & Pérez-Vargas: on *Phaeophyscia* **superveniens** (Nyl.) Hafellner: on *Parmelia sulcata*	Ertz et al. 2005 Hafellner 1996a Pérez-Vargas et al. 2013 Zhurbenko et al. 2015a		
Phacothecium	**varium** (Tul.) Trevis.: on *Xanthoria*	Hafellner 2009		
Schismatomma s. lat.	**physconiicola** Ertz & Diederich: on *Physconia*	Ertz & Diederich 2006		
Trichophyma	**bunchosiae** Rehm: on foliicolous *Strigula* **similis** Matzer: on foliicolous *Strigula*	Matzer 1996		
Lichenostigmatales				
Phaeococcomycetaceae				
Etayoa	**trypethelii** (Flakus & Kukwa) Diederich & Ertz: on Graphidaceae, *Lecanora*, *Pertusaria*, *Trypethelium* and other crustose lichens	Ertz et al. 2014b	**trypethelii**: Cultures obtained by Ertz et al. (2014)	**trypethelii** (Mukherjee): nrLSU: KF176943; mtSSU: KF176970 **trypethelii** (Common 9434K): nrLSU: KF176942; mtSSU: KF176969 **trypethelii** (Common 9215P): nrLSU: KF176941; mtSSU: KF176968 **trypethelii** (Common 9200G): nrLSU: KF176940; mtSSU: KF176967
Lichenostigma [incl. *Phaeosporobolus* anamorphs]	**alpinum** (R. Sant., Alstrup & D. Hawksw.) Ertz & Diederich: on *Lepra*, *Ochrolechia*, *Varicellaria* and other lichens [incl. *Diederimyces fuscideae* Etayo, *D.*	Ertz et al. 2014b Etayo 1995b Etayo & Sancho 2008 Hawksworth & Hafellner 1986 Kalb et al. 1995	cf. **alpinum**: Cultures obtained by Ertz et al. (2014) **chlaroterae**: Cultures obtained by Ertz et al. (2014)	**alpinum** (Ertz 17519): nrLSU: KF176946; mtSSU: KF176973 **alpinum** (Ertz 17522): nrLSU: KF176945; mtSSU: KF176972

	microsporus Etayo, *Phaeosporobolus minutus* Etayo] **chlaroterae** (F. Berger & Brackel) Ertz & Diederich: on *Lecanora* and other lichens **fellhanerae** (R. C. Harris & Lendemer) Ertz & Diederich: on *Fellhanera* **hyalosporum** Kalb & Hafellner: on *Haematomma eremaeum* **maureri** Hafellner: on *Usnea* and other macrolichens			**alpinum** (Diederich 17379): nrLSU: KF176944; mtSSU: KF176971 **chlaroterae** (Goward 12-42): nrLSU: KF176949; mtSSU: KF176977 **chlaroterae** (Neuberg): nrLSU: KF176948; mtSSU: KF176975 **chlaroterae** (Diederich 17329): nrLSU: KF176947; mtSSU: KF176974 **chlaroterae** (Goward 12-30): mtSSU: KF176976 **maureri** (Diederich 17337-teleomorph): nrLSU: KF176954; mtSSU: KF176980 **maureri** (Diederich 17337-anamorph): nrLSU: KF176952 **maureri** (Diederich 17326): nrLSU: KF176953; mtSSU: KF176979 **maureri** (Diederich 17306): nrLSU: KF176951; mtSSU: KF176978 **sp.** (Ertz 17591): nrLSU: KF176961; mtSSU: KF176987 **sp.** (Diederich 17240): nrLSU: KF176955; mtSSU: KF176981

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	Species (**lichenicolous fungi in bold**; *lichenicolous lichens or facultative*	**Significant literature**	Cultures (with accession numbers when known; **culture collection links**)	Sequences (with accession numbers)

	lichenicolous fungi in italics)			
ASCOMYCOTA				
DOTHIDEOMYCETES				
Abrothallales				
Abrothallaceae				
Abrothallus	**acetabuli** Diederich: on *Pleurosticta acetabulum* **bertianus** De Not.: on *Melanelixia* **boomii** Pérez-Ortega & Suija: on *Nephroma* **brattii** (S. Y. Kondratyuk) Suija & Pérez-Ortega: on *Pseudocyphellaria faveolata* **bryoriarum** Hafellner: on *Bryoria* **buellianus** De Not.: on *Parmelina* **caerulescens** Kotte: on *Xanthoparmelia* **canariensis** Pérez-Ortega, van den Boom & Suija: on *Pseudocyphellaria aurata* **cetrariae** Kotte: on *Platismatia glauca* **chrysanthus** Stein: on *Usnea* **cladoniae** R. Sant. & D. Hawksw.: on *Cladonia* **doliiformis** Pérez-Ortega & Suija: on *Sticta* **eriodermae** Suija, Etayo & Pérez-Ortega: on *Erioderma* **ertzii** Suija & Pérez-Ortega: on *Lobaria pulmonaria* **etayoi** Pérez-Ortega & Suija: on *Sticta* **granulatae** Wedin: on *Pseudocyphellaria* **halei** Pérez-Ortega, Suija, D. Hawksw. & R. Sant.: on *Lobaria* **heterodermiicola** Etayo & F. Berger: on *Heterodermia* **hypotrachynae** Etayo & Diederich: on	Brackel 2015 Brackel & Puntillo 2016 Diederich 1990 Diederich 2003 Diederich 2004a Diederich 2011 Diederich et al. 2017 Etayo 2002 Etayo 2010b Etayo 2017 Etayo & Osorio 2004 Etayo & van den Boom 2006 Hafellner 1994a Hafellner et al. 2008 Hawksworth 1990a Ihlen & Wedin 2008 Kondratyuk 1996b Nordin 1964 Pérez-Ortega et al. 2014 Suija 2006 Suija et al. 2011 Suija et al. 2015a Wedin 1994 Zhurbenko et al. 2012		**acetabuli** (SPO308): ITS: KF816165; nrLSU: KF816232; nrSSU: KF816215; mtSSU: KF816205; *RPB2*: KF816194; *RPB1*: KF816192; *TEF1*: KF816188 **acetabuli** (von Brackel 5661): ITS: KP165100 **boomii** (van den Boom 43228): ITS: KP165092; *TEF1*: KP165108 **buellianus** (SPO303): ITS: KF816166; nrLSU: KF816234; nrSSU: KF816217; mtSSU: KF816207; *RPB2*: KF816195; *RPB1*: KF816191; *TEF1*: KF816186 **caerulescens** (SPOc80): ITS: HQ702852 **canariensis** (van den Boom 37849): ITS: KP165087; *TEF1*: KP165123 **cladoniae** (AB53): ITS: KF816173; nrLSU: KF816228; nrSSU: KF816220; *RPB2*: KF816200; *RPB1*: KF816190; *TEF1*: KF816181 **doliiformis** (S309): ITS: KP165086 **eriodermae** (AB60): ITS:

	Hypotrachyna **kamchatica** (Zhurb. & Stepanchikova) Pérez-Ortega & Suija: on *Nephroma* **macrosporus** Etayo & R. Sant.: on *Durietzia* **microspermus** Tul.: on *Flavoparmelia caperata* **nephromatis** Suija & Pérez-Ortega: on *Nephroma* **niger** Etayo: on *Everniastrum*, and possibly *Parmotrema* and *Usnea* **parmeliarum** (Sommerf.) Nyl.: on *Parmelia* **parmotrematis** Diederich: on *Parmotrema* **peyritschii** (Stein) Kotte: on *Vulpicida* **pezizicola** Diederich & R.C. Harris: on *Cladonia peziziformis* **prodiens** (Harm.) Diederich & Hafellner: on *Hypogymnia* **puntilloi** Brackel: on *Lobaria pulmonaria* **ramalinae** Diederich: on *Ramalina* **secedens** Wedin & R. Sant.: on *Pseudocyphellaria* **stereocaulorum** Etayo & Diederich: on *Stereocaulon* **stictarum** Etayo: on *Sticta* **stroblii** Hafellner: on *Menegazzia terebrata* **suecicus** (Kirschst.) Nordin: on *Ramalina* **teloschistis** Brackel, Pérez-Ortega & Suija: on *Seirophora* and *Teloschistes* **tulasnei** M.S. Cole & D. Hawksw.: on *Xanthoparmelia*			KP165101; *TEF1*: KP165126 **eriodermae** (AB74): *TEF1*: KP165117 **ertzii** (Ertz 12517): ITS: KP165102; *TEF1*: KP165127 **etayoi** (Perez-Ortega 2003): ITS: KP165085; *TEF1*: KP165112 **granulatae** (Perez-Ortega 3166): ITS: KP165094; *TEF1*: KP165122 **hypotrachynae** (SPO302): ITS: KF816167; nrLSU: KF816233; nrSSU: KF816218; mtSSU: KF816208; *RPB2*: KF816196 **kamchatica** (S310): ITS: KP165091; *TEF1*: KP165107 **nephromatis** (Spribille 10581): ITS: KP165088; *TEF1*: KP165130 **nephromatis** (AB77): ITS: KP165105; *TEF1*: KP165119 **nephromatis** (Ertz 12514): ITS: KP165103; *TEF1*: KP165118 **nephromatis** (Perez-Ortega 3159): ITS: KP165089; *TEF1*: KP165115 **nephromatis** (Diederich 12530): ITS: KP165104 **parmeliarum** (AB36): ITS: KF816172; nrLSU: KF816229; nrSSU: KF816222; *RPB2*: KF816201; *TEF1*: KF816182 **parmeliarum** (AB57): ITS: KF816178; nrLSU: KF816227; nrSSU: KF816221; mtSSU: KF816211; *RPB2*: KF816198;

	usneae Rabenh.: on *Usnea* **usneae** var. **tetraspora** Etayo & Osorio: on *Usnea* **welwitschii** Mont.: on *Sticta*			*TEF1*: KF816180 **parmotrematis** (AB1): ITS: KF816176; nrLSU: KF816231; nrSSU: KF816225; mtSSU: KF816214; *RPB2*: KF816204; *TEF1*: KF816185 **secedens** (SPO305): ITS: KF816169; nrLSU: KF816236; nrSSU: KF816216; mtSSU: KF816206 **secedens** (Perez-Ortega 3158): ITS: KP165098; *TEF1*: KP165121 **secedens** (Perez-Ortega 3156): ITS: KP165095; *TEF1*: KP165111 **secedens** (Perez-Ortega 3161): ITS: KP165093; *TEF1*: KP165110 **secedens** (Perez-Ortega 3162): ITS: KP165097 **secedens** (Perez-Ortega 3175): ITS: KP165096 **sp.** (Perez-Ortega 3155): ITS: KP165099; *TEF1*: KP165124 **sp.** (von Brackel 5491): ITS: KP165106; *TEF1*: KP165120 **sp. 1** (SP-2014): ITS: KF816168; nrLSU: KF816235; nrSSU: KF816219; mtSSU: KF816209; *RPB2*: KF816197; *RPB1*: KF816193; *TEF1*: KF816187 **sp. 2** (SP-2014): ITS: KF816175; nrLSU: KF816230; nrSSU: KF816224; mtSSU: KF816213; *RPB2*: KF816203; *TEF1*:

				KF816184 **suecicus** (AB56): ITS: KF816177; nrLSU: KF816226; mtSSU: KF816210; *RPB2*: KF816199; *TEF1*: KF816179 **suecicus** (SPO304): ITS: KF816171 **usneae** (AB20): ITS: KF816174; nrSSU: KF816223; mtSSU: KF816212; *RPB2*: KF816202; *RPB1*: KF816189; *TEF1*: KF816183 **usneae** (SPO306): ITS: KF816170 **welwitschii** (Perez-Ortega 3171): *TEF1*: KP165131 **welwitschii** (AB61): *TEF1*: KP165129 **welwitschii** (Ertz 1083): *TEF1*: KP165128 **welwitschii** (Perez-Ortega 3169): ITS: KP165090; *TEF1*: KP165116 **welwitschii** (Perez-Ortega 3168): *TEF1*: KP165114 **welwitschii** (Perez-Ortega 3176): *TEF1*: KP165113 **welwitschii** (Spribille 24949): *TEF1*: KP165109
Lichenoconiaceae				
Lichenoconium	**aeruginosum** Diederich, M. Brand, van den Boom & Lawrey: on *Cladonia* **cargillianum** (Linds.) D. Hawksw.: on *Letharia*, *Parmotrema*, *Platismatia*, *Ramalina* and *Usnea*	Alstrup & Cole 1998 Christiansen 1956 Christiansen 1980 Cole & Hawksworth 2004 Diederich 1986 Hawksworth 1977b	**aeruginosum**: CBS 129239 **erodens**: Culture obtained by Crittenden et al. (1995) **erodens**: CBS 128028 **erodens**: CBS 128030	**aeruginosum** (CBS 129239, JL359-09): nrLSU: HQ174269; mtSSU: HQ174268 **erodens** (JL363-09): nrLSU: HQ174267; mtSSU:

	christiansenii M. S. Cole & D. Hawksw.: on *Nodobryoria abbreviata* **echinosporum** D. Hawksw.: on *Cladia muelleri* **edgewoodensis** Alstrup & M. S. Cole: on *Parmelia sulcata* **erodens** M. S. Christ. & D. Hawksw.: on various lichens **follmannii** S. Y. Kondr. & D. J. Galloway: on *Lobaria pulmonaria* **laevisporum** Kalb & Hafellner: on *Haematomma* **lecanorae** (Jaap) D. Hawksw.: on various lichens **lichenicola** (P. Karst.) Petr. & Syd.: on *Physcia* **plectocarpoides** S. Y. Kondr. & D. J. Galloway: on *Pseudocyphellaria* **pyxidatae** (Oudem.) Petr. & Syd.: on *Cladonia* **reichlingii** Diederich: on *Ramalina fraxinea* **usneae** (Anzi) D. Hawksw.: on various lichens **xanthoriae** M. S. Christ.: on *Xanthoria*, also reported from *Caloplaca*, *Cetraria*, *Cetrelia*, *Heterodermia*, *Melanelia*, *Physcia* and *Teloschistes*	Hawksworth 1981 Kalb et al. 1995 Kondratyuk & Galloway 1995b Kondratyuk et al. 1994 Lawrey et al. 2011	**erodens**: CBS 128704 **lecanorae**: Culture obtained by Crittenden et al. (1995) **lecanorae**: CBS 128024 **sp.**: CBS 129139 **usneae**: CBS 128020	HQ174266 **lecanorae** (CBS 128024): nrLSU: HQ174263; mtSSU: HQ174262 **usneae** (CBS 128020): nrLSU: HQ174265; mtSSU: HQ174264
Asterinales				
Genera incertae sedis				
Buelliella	**colombiana** Etayo: on *Phlyctis andensis* **dirinariae** Diederich: on *Dirinaria picta* **eximia** Kalb & Hafellner: on *Pyxine cocoes* **inops** (Triebel & Rambold) Hafellner: on	Aptroot et al. 1997 Ertz & Diederich 2015 Etayo 2002a Hafellner 1979 Hafellner 1985b		**physciicola** (Ertz 19173): nrLSU: KP456148; mtSSU: KP456173 **physciicola** (Ertz 18113): nrLSU: KP456147; mtSSU: KP456172

	Caloplaca **heppiae** van den Boom: on *Heppia arenacea* **lecanorae** Suija & Alstrup: on *Lecanora* **minimula** (Tuck.) Hafellner: on *Pertusaria* **physciicola** Poelt & Hafellner: on *Phaeophyscia* and *Physcia* **poetschii** Hafellner: on *Endocarpon* **protoparmeliopseos** Etayo & Pérez-Ortega: on *Protoparmeliopsis* **pusilla** Hafellner: on *Brigantiaea leucoxantha* **trypethelii** (Tuck.) Hafellner: on *Trypethelium*	Hafellner et al. 2008 Kalb 1990 Pérez-Ortega & Etayo 2010 Suija & Alstrup 2004 van den Boom 2010		**poetschii** (Ertz 18116): nrLSU: KP456150; mtSSU: KP456175 **poetschii** (Ertz 18115): nrLSU: KP456149; mtSSU: KP456174
Hemigrapha	**asteriscus** (Müll. Arg.) D. Hawksw.: on *Peltigera* **atlantica** Diederich & Wedin: on *Sticta canariensis* **nephromatis** Wedin & Diederich: on *Nephroma australe* **phaeospora** Matzer & Lücking: on foliicolous *Strigula phyllogena* **pilocarpacearum** M. Cáceres & Lücking: on *Byssoloma* and *Fellhanera* **pseudocyphellariae** Diederich & Wedin: on *Pseudocyphellaria argyracea* **strigulae** Matzer: on foliicolous *Strigula* **tenellula** (Müll. Arg.) Matzer: on foliicolous *Porina*	Cáceres & Lücking 2000 Diederich & Wedin 2000 Eriksson et al. 2001 Ertz & Diederich 2015 Hawksworth 1975b Matzer 1996		**asteriscus** (Ertz 18690): mtSSU: KP456176 **atlantica** (Ertz 14014): nrLSU: KP456151; mtSSU: KP456177
Karschia	**alpicolae** D. Hawksw. & Alstrup: on *Allantoparmelia alpicola* **santessonii** Hafellner: on *Porpidia* **talcophila** (Flot.) Koerb.: on *Diploschistes*	Alstrup & Hawksworth 1990 Ertz & Diederich 2015 Hafellner 1979 Santesson 1994a		**talcophila** (Diederich 16749): nrLSU: KP456155; mtSSU: KP456181

Labrocarpon	**canariense** (D, Hawksw.) Etayo & Pérez-Ortega: on *Pertusaria*	Ertz & Diederich 2015 Hawksworth 1982b Pérez-Ortega & Etayo 2010		**canariense** (Ertz 16907): nrLSU: KP456158; mtSSU: KP456184 **canariense** (Ertz 10878): nrLSU: KP456156; mtSSU: KP456182 **canariense** (Ertz 16308): nrLSU: KP456157; mtSSU: KP456183
Melanographa	**tribuloides** (Tuck.) Müll. Arg.: on *Anthracothecium* and *Pyrenula*	Ertz & Diederich 2015		
Melaspilea s. lat.	**amarkantakensis** S. Joseph & G. P. Sinha: on *Pertusaria amarkantakana* **cupularis** Müll. Arg.: on *Pyrenula* **epigena** Müll. Arg.: on *Reimnitzia santensis* **epigraphella** (Nyl.) Müll. Arg.: on *Acanthothecis consocians* **galligena** Zhurb. & I. Zhdanov.: on *Pertusaria* **insitiva** Stirt.: on *Pertusaria leioplaca* **leciographoides** Vouaux: on *Verrucaria* **lekae** Brackel & Kalb: on *Sarcographa* **tucumana** Flakus, Etayo & Kukwa: on *Pertusaria*	Clauzade et al. 1989 Ertz & Diederich 2015 Flakus et al. 2014 Joseph & Sinha 2015 Kalb et al. 2012 Zhurbenko & Zhdanov 2013		**lekae** (Ertz 17325): nrLSU: KP456162; mtSSU: KP456185
Melaspileopsis	cf. **diplasiospora** (Nyl.) Ertz & Diederich: on *Graphis elegans*	Ertz & Diederich 2015		cf. **diplasiospora** (Ertz 16625): nrLSU: KP456166; mtSSU: KP456190 cf. **diplasiospora** (Ertz 16624): nrLSU: KP456165; mtSSU: KP456189 cf. **diplasiospora** (Ertz 16247): nrLSU: KP456164; mtSSU: KP456188
Taeniolella s. lat.	**atricerebrina** Hafellner: on *Tephromela* **beschiana** Diederich: on *Cladonia* [= *Ameroconium cladoniae* U. Braun & Zhurb.]	Alstrup 1993b Alstrup & Hansen 2001 Alstrup & Hawksworth 1990 Cole & Hawksworth 2001 Diederich 1990		**hawksworthiana** (Common 9199B): nrLSU: KX244970; mtSSU: KX244984 **punctata** (Diederich 16040):

	breviuscula (Berk. & M. A. Curtis) S. Hughes: facultative lichenicolous **caespitosa** M. S. Cole & D. Hawksw.: on *Pertusaria* **christiansenii** Asltrup & 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* **hawksworthiana** Heuchert, Ertz & Common: on *Phaeographis* **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*, more rarely on *Arthonia*, *Fissurina*, *Pertusaria* and *Phaeographis* **pyrenulae** Heuchert & Diederich: on *Pyrenula* **rolfii** Diederich & Zhurb.: on *Cetraria* and *Cetrariella*	Diederich 1992b Diederich & Zhurbenko 1997 Diederich & Zhurbenko 2001 Ertz et al. 2016 Etayo 2010b Etayo & Calatayud 2005 Etayo & Sancho 2008 Hafellner 1998b Hafellner 2007 Hawksworth 1979a Zhurbenko & Alstrup 2004		nrLSU: KX244973 **punctata** (Cezanne-Eichler 7279): nrLSU: KX244974 **punctata** (Ertz 17390): nrLSU: KX244972; mtSSU: KX244986 **punctata** (Diederich 16714): nrLSU: KX244971; mtSSU: KX244985 **pyrenulae** (Diederich 17075): mtSSU: KX244988 **tortuloides** (Diederich 17048): mtSSU: KX244990 **tortuloides** (Diederich 17047): mtSSU: KX244989

	santessonii Etayo & Heuchert: on *Roccellina cerebriformis* **serusiauxii** Diederich: on *Dendrographa decolorans* and sterile crustose lichens with *Trentepohlia* **strictae** Alstrup: on *Cladonia stricta* **toruloides** Heuchert & Diederich: on *Thelotrema* **trapeliopseos** Diederich: om *Trapeliopsis* **verrucosa** M. S. Christ. & D. Hawksw.: on *Arthonia pruinata*			
Stictographa	**dirinariicola** Diederich & Ertz: on *Dirinaria picta* **lentiginosa** (Leight.) Müll. Arg.: on *Phaeographis dendritica*	Ertz & Diederich 2015 Diederich et al. 2017		**lentiginosa** (van den Boom 47621): nrLSU: KP456171; mtSSU: KP456195 **lentiginosa** (Ertz 17570): nrLSU: KP456170; mtSSU: KP456194 **lentiginosa** (Ertz 17447): nrLSU: KP456169; mtSSU: KP456193
Capnodiales				
Cladosporiaceae				
Cladosporium	**antarcticum** K. Schub., Crous & U. Braun: isolated from *Caloplaca regalis*, probably lichenicololous **arthoniae** M. S. Christ. & D. Hawksw.: on corticolous lichens with *Trentepohlia* [not *Cladosporium*; *Taeniolella*-like] **licheniphilum** Heuchert & U. Braun: on *Cetraria*, *Glypholecia*, *Hypogymnia*, *Lecanora*, *Peltigera*, *Pertusaria*, *Phaeophyscia*, *Physcia*, *Physconia Thamnolia* and *Xanthoria*	Bensch et al. 2012 Diederich 1989 Hawksworth 1979a Heuchert & Braun 2006 Zhurbenko 2012	**antarcticum**: CBS 690.92 **licheniphilum**: CPC 13224; CBS 125990	**antarcticum** (CBS 690.91): ITS: EF679334; *TEF1*: EF679405; *histone H3*: EF679636; *cmdA*: EF679560; *act*: EF679484 **licheniphilum** (CPC 13224): ITS: NR_119847 **licheniphilum** (CBS 125990): ITS: HM148111; *TEF1*: HM148355; *act*: HM148600
Verrucocladosporium	**dirinae** K. Schub., Aptroot & Crous: on *Dirina massiliensis* **roccellae** U. Braun, Diederich & Heuchert:	Braun et al. 2009 Crous et al. 2007	**dirinae**: CBS 112794	**dirinae** (CBS 112794): ITS: EU040244

	on *Roccella*			
Dissoconiaceae				
Ramichloridium	**cladoniicola** U. Braun & Heuchert: on *Cladonia portentosa* **tropicum** U. Braun & Diederich: on crustose lichen with *Trentepohlia*	Braun et al. 2009 Diederich et al. 2017		
Mycosphaerellaceae				
Pseudocercospora	**lichenum** (Keissl.) D. Hawksw.: on *Haematomma cismonicum*	Etayo 2002 Hawksworth 1979a		
Sphaerulina s. lat.	*dolichotera* (Nyl.) Vouaux: on Collemataceae [probably a synonym of *Merismatium decolorans*] **dubiella** (Nyl.) W. Wats.: on crustose lichen *intermedia* Vouaux: on *Leptogium* [probably a synonym of *Merismatium decolorans*] **lepidiotae** (Anzi) Vain.: on *Fuscopannaria praetermissa*	Clauzade et al. 1989		
Wernerella	**acarosporae** Etayo: on *Acarospora nodulosa* **maheui** (Werner) Nav.-Ros., Cl. Roux & Giralt: on *Rinodina*	Etayo 2010c Navarro-Rosinés et al. 1996 Navarro-Rosinés et al. 1998d		
Teratosphaeriaeae				
Austrostigmidium	**mastodiae** Pérez-Ortega & Garrido-Benavent: on *Mastodia tessellata*	Pérez-Ortega et al. 2015		**mastodiae** (MA: 18210): nrLSU: KP282858 **mastodiae** (MA: 18215): nrLSU: KP282859 **mastodiae** (MA: 18214): nrLSU: KP282860 **mastodiae** (MA: 18204): nrLSU: KP282861; nrSSU: KP282863 **mastodiae** (MA: 18213): nrLSU: KP282862; nrSSU: KP282864

Xanthoriicola	**physciae** (Kalchbr.) D. Hawksw.: on *Xanthoria*	Hawksworth 1979a Hawksworth & Punithalingam 1973 Ruibal et al. 2011		**physciae** (CR4): nrLSU: JN040487 **physciae** (CR10): nrLSU: JN040488 **physciae** (CR20): nrLSU: JN040489 **physciae** (CR21): nrLSU: JN040490 **physciae** (CR22): nrLSU: JN040491 **physciae** (CR23): nrLSU: JN040492 **physciae** (CR44): nrLSU: JN040493 **physciae** (CR45): nrLSU: JN040494 **physciae** (CR50): nrLSU: JN040495 **physciae** (CR51): nrLSU: JN040496 **physciae** (CR58): nrLSU: JN040497 **physciae** (Diederich 16713): nrLSU: KF176965; mtSSU: KF176990
Collemopsidiales				
Xanthopyreniaceae				
Collemopsidium	**cephalodiorum** (Triebel & Grube) Grube: on *Pilophorus cephalodiorum*	Grube 2005		
Didymellopsis	**collematum** (J. Steiner) Grube & Hafellner: on *Collema* **latitans** (Nyl.) Clem. & Shear: on *Gonohymenia* and *Lempholemma* **nephromatis** Zhurb. & Etayo: on	Etayo 2017 Grube & Hafellner 1990 Zhurbenko et al. 2015b		

	Nephroma cellulosum **perigena** (Nyl.) Grube & Hafellner: on *Placidium squamulosum* **pulposi** (Zopf) Grube & Hafellner: on *Collema* and *Leptogium* **viridireagens** Etayo: on *Leptogium*			
Zwackhiomyces	**argentinae** (Räsänen) D. Hawksw. & V. Atienza: on *Acarospora* **aspiciliae** Halıcı & Candan: on *Aspicilia* **berengerianus** (Arnold) Grube & Triebel: on *Lecidea berengeriana* **calcariae** (Flagey) Hafellner & Nik. Hoffm.: on *Aspicilia* **calcisedus** Cl. Roux: on *Verrucariaceae* **cervinae** Calat., Triebel & Pérez-Ortega: on *Acarospora* **cladoniae** (C. W. Dodge) Diederich: on *Cladonia* **coepulonus** (Norman) Grube & R. Sant.: on *Caloplaca* and *Xanthoria elegans* **diederichii** D. Hawksw. & Iturr.: on *Cladonia* **dispersus** (Körb.) Triebel & Grube: on *Protoblastenia rupestris* **echinulatus** Brackel: on *Physconia* **euplocinus** Hafellner, Grube & Egan: on *Speerschneidera euploca* **heppiae** van den Boom: on *Heppia arenacea* **insconpicuus** Grube & Hafellner: on *Myriolecis dispersa* **kantvilasii** S. Y. Kondr.: on *Parmotrema* **kiszkianus** D. Hawksw. & Miadl.: on	Alstrup 1993a Alstrup & Olech 1993 Aptroot et al. 1997 Diederich & Zhurbenko 2009 Etayo 2010b Grube & Hafellner 1990 Halıcı & Candan 2009 Harris 1995 Hawksworth & Atienza 1994 Hawksworth & Iturriaga 2006 Hawksworth & Miadlikowska 1997a Hoffmann & Hafellner 2000 Kocakaya et al. 2011 Khodosovtsev & Darmostuk 2017 Kondratyuk 1996b Miadlikowska & Alstrup 1995 Orange 2002 Roux 2014 van den Boom 2010 van den Boom & Etayo 2014		

	Peltigera **lacustris** (Arnold) Orange: on *Ionaspis lacustris* **lecanorae** (Stein) Nik. Hoffm. & Hafellner: on *Lecanora* **lithoiceae** (B. de Lesd.) Hafellner & V. John: on *Verrucaria* **macrosporus** Alstrup & Olech: on *Protopannaria* **martinatianus** (Arnold) Triebel & Grube: on *Porpidia* **melanohaleae** Etayo & van den Boom: on *Melanohalea exasperata* **namibiensis** Diederich & M. Schultz: on *Psorotichia* **peltigerae** Miadl. & Alstrup: on *Peltigera* **physciicola** Alstrup: on *Physcia caesia* **polischukii** Darmostuk & Khodos.: on *Bacidia* **rolfii** (Etayo) Etayo: on *Candelina* **sipmanii** Diederich & Zhurb.: on *Phaeorrhiza sareptana* **socialis** (Körb.) Cl. Roux: on *Clauzadea*, perhaps also on *Bacidia bagliettoana* **solenopsorae** van den Boom: on *Solenopsora holophaea* **sphinctriniformis** Grube & Hafellner: on *Romjularia lurida* **sphinctrinoides** (Zwackh) Grube & Hafellner: on *Lecanora campestris* **turcicus** Kocakaya, Halıcı & Aksoy: on *Physcia magnussonii*			
Dothideales				

Aureobasidiaceae				
Pseudoseptoria	**usneae** (Vouaux) D. Hawksw.: on *Usnea*	Hawksworth 1981		
Dothideaceae				
Plowrightia	**mereschkowskyi** Vouaux: on *Aspicilia hispida*	Clauzade et al. 1989		
Lichenotheliales				
Lichenotheliaceae				
Lichenothelia	**convexa** Henssen: facultative lichenicolous over siliceous rocks **renobalesiana** D. Hawksw. & V. Atienza: on endolithic Verrucariaceae (*Bagliettoa*, *Thelidium*, *Verrucaria*) over calcareous rocks **rugosa** (G. Thor) Ertz & Diederich: on *Diploschistes* **spiralispora** Etayo [as '*spiratispora*']: on *Acarospora sphaerospora*	Atienza & Hawksworth 2008 Etayo 2010c Ertz et al. 2014b Kocourková & Knudsen 2011b	**rugosa**: Cultures obtained by Ertz et al. (2014)	*convexa* (Diederich 17491): nrLSU: KF176962; mtSSU: KF176988 *convexa* (L1609): nrSSU: KC015086 *convexa* (L1608): nrSSU: KC015085 *convexa* (L1607): nrSSU: KC015084 *convexa* (L1606): nrSSU: KC015083 *convexa* (L1702): nrLSU: KC015072 **rugosa** (Ertz 16065): nrLSU: KF176964 **rugosa** (Diederich 17310): nrLSU: KF176963; mtSSU: KF176989 **sp.** (L986): nrSSU: KC015089 **sp.** (L985): nrSSU: KC015088 **sp.** (L984): nrSSU: KC015087
Lichenostigma s. lat. (see under Lichenostigmatales for *Lichenostigma* s.str.)	**amplum** Calat. & Hafellner: on *Buellia* **anatolicum** Halıcı & Kocakaya: on brown *Acarospora* **bolacinae** Nav.-Ros., Calat. & Hafellner: on *Caloplaca bolacina*	Alstrup & Hawksworth 1990 Calatayud & Barreno 2003 Calatayud & Navarro-Rosinés 2000 Calatayud et al. 2002 Calatayud et al. 2004b Etayo & Sancho 2008	cf. **elongatum**: Cultures obtained by Ertz et al. (2014)	**Lichenotheliaceae sp.** (Ertz 17540): nrLSU: KF176960; mtSSU: KF176986 **Lichenotheliaceae sp.** (Ertz 17457): nrLSU: KF176959; mtSSU: KF176985

	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* **epiporpidiae** S. Y. Kondr., L. Lőkös & J.-S. Hur: on *Porpidia* **epirupestre** Pérez-Ortega & Calat.: on *Pertusaria pertusa* **episulphurella** Etayo & van den Boom: on *Lecanora sulphurella* **gracile** Calat., Nav.-Ros. & Hafellner: on *Acarospora fuscata* **heterodermiae** S. Y. Kondr., L. Lőkös et J.-S. Hur: on *Heterodermia* **iranicum** Brackel & Valadbeigi: on *Lobothallia praeradiosa* **lecanorae** Calat. & Nav.-Ros.: on *Lecanora farinacea* **radicans** Calat. & Barreno: on *Aspicilia* **rouxii** Nav.-Ros., Calat. & Hafellner: on *Squamarina* **rupicolae** Fern.-Brime & Nav.-Ros.: on *Pertusaria rupicola* **saxicola** K. Knudsen & Kocourk.: saxicolous, facultative lichenicolous on *Polysporina simplex*	Fernández-Brime et al. 2010 Hafellner 1982a Hafellner 1999 Hafellner & Calatayud 1999 Halıcı & Hawksworth 2007 Halıcı et al. 2009b Harris & Lendemer 2009 Ihlen 2004 Kondratyuk et al. 2013 Kondratyuk et al. 2017 Knudsen & Kocourková 2010b Navarro-Rosinés & Hafellner 1996 Pérez-Ortega & Calatayud 2009 Thor 1985 van den Boom & Etayo 2006 Valadbeigi & Brackel 2011 Vondrák & Šoun 2007		**Lichenotheliaceae sp.** (Ertz 16455): nrLSU: KF176958; mtSSU: KF176984 **Lichenotheliaceae sp.** (Ertz 16340): nrLSU: KF176957; mtSSU: KF176983 **Lichenotheliaceae sp.** (Ertz 16122): nrLSU: KF176956; mtSSU: KF176982 **Lichenotheliaceae sp.** (Ertz 15255): nrLSU: KF176950

	semi-immersum Hafellner: on *Buellia* **subradians** Hafellner, Calat. & Nav.-Ros.: on *Acarospora* **supertegentis** Ihlen & R. Sant.: on *Aspicilia supertegens* **svandae** Vondrák & Šoun: on *Acarospora cervina* **triseptatum** Halıcı & D. Hawksw.: on *Aspicilia* **verrucosum** Brackel & Valadbeigi: on *Pleopsidium gobiense*			
Patellariales				
Patellariaceae				
Stratisporella	**episemoides** (Nyl.) Hafellner: on *Enterographa*	Aptroot et al. 1997 Hafellner 1979 Kutorga & Hawksworth 1997		
Tryblidaria	**capensis** (Stizenb.) Vouaux: on *Buellia callaina*	Clauzade et al. 1989		
Pleosporales				
Cucurbitariaceae				
Pyrenochaeta	**collematis** Vouaux: on *Collema tenax* **xanthoriae** Diederich: on *Xanthoria*	Clauzade et al. 1989 Diederich 1990 Hafellner 1982a		
Pyrenochaetopsis	*microspora* (Gruyter & Boerema) Gruyter, Aveskamp & Verkley: facultative lichenicolous on *Buellia*	de Gruyter et al. 2010	*microspora*: CBS 101333	*microspora* (CBS 101333): nrLSU: GQ387630
Dacampiaceae				
Dacampia	**caloplacicola** Halıcı, Candan & Etayo: on *Caloplaca* **cladoniicola** Halıcı & A. Ö. Türk: on *Cladonia* **cyrtellae** Brackel: on *Lecania cyrtella* **engeliana** (Saut.) A. Massal.: on *Solorina*	Brackel 2010a Brackel 2010b Earland-Bennett et al. 2006 Ertz et al. 2015 Etayo 2017 Halıcı & Hawksworth 2008 Halıcı et al. 2008 Halıcı et al. 2009a		**engeliana** (Hafellner 72868): nrLSU: KT383791 **hookeri** (Hafellner 73897): nrLSU: KT383792 **hookeri** (Hafellner 74269): nrLSU: KT383793 **hookeri** (Hafellner 75980):

	hookeri (Borrer) A. Massal.: on *Solorina*, probably lichenized **lecaniae** Kocourk. & K. Knudsen: on *Lecania fuscella* **leptogiicola** (D. Hawksw.) D. Hawksw.: on *Leptogium* **muralicola** Halıcı & D. Hawksw.: on *Protoparmeliopsis muralis* **peltigericola** D. Hawksw. & C.J.B. Hitch: on *Peltigera* **pentaseptata** Etayo: on *Parmotrema* **rhizocarpicola** D. Hawksw.: on *Rhizocarpon* **rubra** Halıcı, Candan & Calat.: on *Aspicilia* **rufescentis** (Vouaux) D. Hawksw.: on *Peltigera* **thamnoliicola** Zhurb. *ad int.*: on *Thamnolia* **xanthomendozae** Etayo & Halıcı: on *Xanthomendoza*	Halıcı et al. 2009b Hawksworth 1980b Hawksworth 1986 Henssen 1995 Kocourková & Knudsen 2010b Zhurbenko 2012		nrLSU: KT383794 **hookeri** (Hafellner 81840): nrLSU: KT383795
Didymellaceae				
Ascochyta	**santessonii** Alstrup & D. Hawksw.: on *Phaeophyscia sciastra* **candelariellicola** D. Hawksw. & Kalb: on *Candelariella aurella*	Alstrup & Hawksworth 1990 Hawksworth & Kalb 1992		
Epicoccum	**nigrum** Link: facultative lichenicolous over various lichens	David & Hawksworth 1995 Diederich 2004b	*nigrum* (syn. *E. purpurascens*): 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
Leptosphaerulina	**peltigerae** (Fuckel) Riedl: on *Peltigera*	Hawksworth 1980b		

Microsphaeropsis	**caloplacae** Etayo & Yazici: on *Caloplaca* **lichenicola** Etayo: on *Pannaria* **physciae** Brackel: on *Physcia*	Brackel 2014 Etayo & Sancho 2008 Etayo & Yazici 2009		
Leptosphaeriaceae				
Leptosphaeria s. lat.	**clarkii** D. Hawksw.: on *Peltigera* **oxneriae** Cl. Roux & S. Y. Kondr.: on *Xanthomendoza ulophyllodes* **pycnostigma** (Nyl.) Sacc. & D. Sacc.: on *Baeomyces*	Clauzade et al. 1989 Hawksworth 1980b Kondratyuk et al. 2017		
Phaeosphaeriaceae				
Didymocyrtis	**bryonthae** (Arnold) Hafellner: on *Lecanora epibryon* **cladoniicola** (Diederich, Kocourk. & Etayo) Ertz & Diederich: on *Cladonia*, *Flavoparmelia*, *Parmelina*, *Ramalina* and *Squamarina* **consimilis** Vain.: on *Caloplaca cerina* s. lat., *C. stillicidiorum* and *C. tirolensis* **epiphyscia** Ertz & Diederich: on *Physcia aipolia*, probably also on *Physcia adscendens*, *P. stellaris*, *P. tenella* and *Xanthoria parietina* **foliaceiphila** (Diederich, Kocourk. & Etayo) Ertz & Diederich: on *Cladonia*, *Parmelia* and *Pseudevernia* **infestans** (Speg.) Hafellner: on *Teloschistes chrysophthalmus and T. flavicans* **kaernefeltii** (S. Y. Kondr.) Hafellner: on *Teloschistes chrysophthalmus* **melanelixiae** (Brackel) Diederich, Harris & Etayo: on *Canoparmelia*, *Cetraria*, *Cetrelia*, *Evernia*, *Hypotrachyna*, *Melanelixia*, *Parmelia*, *Parmotrema*,	Brackel 2008 Brackel 2010a Diederich et al. 2007 Etayo 1996 Etayo 2017 Etayo & Diederich 1996a Etayo & Sancho 2008 Hafellner 1994a Hafellner 2015 Hafellner & Zimmermann 2012 Hawksworth 1981 Hawksworth 1994 Hawksworth 2003 Kondratyuk 2008 Lawrey et al. 2012	**consimilis**: CBS 129140 **consimilis**: CBS 129338 **cladoniicola**: CBS 128026 **cladoniicola**: CBS 128027 **cladoniicola**: CBS 131731 **cladoniicola**: CBS 131732 **cladoniicola**: CBS 131733 **cladoniicola**: CBS 128023 **cladoniicola**: CBS 128025 **epiphyscia**: CBS 132234 **foliaceiphila**: CBS 129141 **foliaceiphila**: CBS 131728 **foliaceiphila**: CBS 131730 **foliaceiphila**: CBS 131729 **melanelixiae**: CBS 137505; CBS 137506; CBS 137507; CBS 137508; CBS 137509; CBS 137510; CBS 137511 **ramalinae**: CBS 128019 **xanthomendozae**: CBS 129666 TYPE CULTURE	**cladoniicola** (CBS 128026): ITS: JQ238626; nrLSU: JQ238628; mtSSU: JQ238627 **cladoniicola** (CBS 128027): ITS: JQ238629; nrLSU: JQ238631; mtSSU: JQ238630 **cladoniicola** (FL5): ITS: JQ318014; nrLSU: JQ318016; mtSSU: JQ318015 **cladoniicola** (FL10; CBS 131731): ITS: JQ318017; nrLSU: JQ318019; mtSSU: JQ318018 **cladoniicola** (FL11; CBS 131732): ITS: JQ318020; nrLSU: JQ318022; mtSSU: JQ318021 **cladoniicola** (FL13; CBS 131733): ITS: JQ318023; nrLSU: JQ318025; mtSSU: JQ318024

	Platismatia, *Pseudevernia*, *Punctelia* and *Usnea* **micropunctum** Etayo: on *Parmotrema* **Leptosphaeria protousneae** Etayo: on *Protousnea* **physciae** (Brackel) Hafellner: on *Physcia* [= *Pleospora physciae* (Brackel) Hafellner & E. Zimm.] **pseudeverniae** (Etayo & Diederich) Ertz & Diederich: on *Pseudevernia* **ramalinae** (Desm.) Ertz, Diederich & Hafellner: on *Ramalina* [= *Pyrenidium ucrainicum* S. Y. Kondr., L. Lőkös & J.-S. Hur] **slaptoniensis** (D. Hawksw.) Hafellner & Ertz: on *Xanthoria parietina* **xanthomendozae** (Diederich & Freebury) Diederich & Freebury: on *Xanthomendoza*			**cladoniicola** (FL14: ITS: JQ318026; nrLSU: JQ318028; mtSSU: JQ318027 **cladoniicola** (CBS 128023): ITS: JQ238620; nrLSU: JQ238622; mtSSU: JQ238621 **cladoniicola** (CBS 128025): ITS: JQ238623; nrLSU: JQ238625; mtSSU: JQ238624 **cladoniicola** (Ertz 16296): ITS: KT383809 **cladoniicola** (Ertz 16464): ITS: KT383810 **consimilis** (Gardiennet 12041 asexual): ITS: KT383812 **consimilis** (Gardiennet 12041 sexual): ITS: KT383813; rLSU: KT383796 **consimilis** (CBS 129140): ITS: JQ238635; nrLSU: JQ238637; mtSSU: JQ238636 **consimilis** (CBS 129338): ITS: JQ238641; nrLSU: JQ238643; mtSSU: JQ238642 aff. **consimilis** (Ertz 17617B): ITS: KT383811; nrLSU: KT383797 aff. **consimilis** (Berger 26876): ITS: KT383814; nrLSU: KT383798 aff. **consimilis** (Berger

				27218): ITS: KT383815 aff. **consimilis** (Berger 27251): ITS: KT383816 aff. **consimilis** (Diederich 17465): ITS: KT383817 **epiphyscia** (Ertz 17422): ITS: KT383818 **epiphyscia** (Ertz 17615): ITS: KT383819 **epiphyscia** (Ertz 17411): ITS: KT383820; nrLSU: KT383799 **epiphyscia** (Ertz 17414): ITS: KT383821 **epiphyscia** (Gardiennet 12008 isolate 2): ITS: KT383822 **epiphyscia** (Ertz 17461): ITS: KT383823 **epiphyscia** (CBS 132234): ITS: KT383824 **epiphyscia** (Ertz 17413): ITS: KT383825 **foliaceiphila** (CBS 129141): ITS: JQ238638; nrLSU: JQ238640; mtSSU: JQ238639 **foliaceiphila** (FL1; CBS 131728): ITS: JQ318002; nrLSU: JQ318004; mtSSU: JQ318003 **foliaceiphila** (FL2; CBS 131730): ITS: JQ318005; nrLSU: JQ318007; mtSSU: JQ318006 **foliaceiphila** (FL3; CBS 131729): ITS: JQ318008;

				nrLSU: JQ318010; mtSSU: JQ318009 **foliaceiphila** (FL12): ITS: JQ318011; nrLSU: JQ318013; mtSSU: JQ318012 **melanelixiae** (CBS 137506): ITS: KT383826 **melanelixiae** (CBS 137507): ITS: KT383827; nrLSU: KT383800 **melanelixiae** (CBS 137508): ITS: KT383828 **melanelixiae** (CBS 137509): ITS: KT383829 **melanelixiae** (CBS 137510): ITS: KT383830 **melanelixiae** (CBS 137505): ITS: KT383831 **pseudeverniae** (Diederich 17327a): ITS: KT383832 **pseudeverniae** (Diederich 17327b): ITS: KT383833 **pseudeverniae** (Diederich 17338): ITS: KT383834; nrLSU: KT383801 **ramalinae** (CBS 128019): ITS: JQ238614; nrLSU: JQ238616; mtSSU: JQ238615 **ramalinae** (Paul 13i2013 isolate 1): ITS: KT383835 **ramalinae** (Paul 27i2013 isolate 1): ITS: KT383836 **ramalinae** (Paul 27i2013 isolate 2): ITS: KT383837

				ramalinae (Ertz 16399): ITS: KT383838; nrLSU: KT383802 **ramalinae** (Paul 10i2013 isolate 1): ITS: KT383839 **slaptoniensis** (Gardiennet 12009): ITS: KT383840 **slaptoniensis** (MoraA): ITS: KT383841; nrLSU: KT383803 **slaptoniensis** (MoraB): ITS: KT383842 **xanthomendozae** (CBS 129666 TYPE CULTURE): ITS: JQ238632; nrLSU: JQ238634; mtSSU: JQ238633
Ophiobolus s. lat.	**aspiciliae** (H. Olivier) Vouaux: on *Aspicilia*	Clauzade et al. 1989		
Xenophoma	**puncteliae** (Diederich & Lawrey) Crous & Trakunyingcharoen: on *Punctelia*	Lawrey et al. 2012 Trakunyingcharoen et al. 2014	**puncteliae**: CBS 128022 TYPE CULTURE	**puncteliae** (CBS 128022): ITS: JQ238617; nrLSU: JQ238619; mtSSU: JQ238618
Pleomassariaceae				
Lichenopyrenis	**galligena** Calat., M. J. Sanz & Aptroot: on *Leptochidium albociliatum*	Calatayud et al. 2001b		
Pleosporaceae				
Pleospora	**bernadetiae** van den Boom: on *Protoparmeliopsis muralis* [as *Plaeospora bernadetae*] **collematum** Zukal: on Collemataceae **'Verrucaria' congestula** Cromb.: on *Placopsis macrophthalma* [a taxon of uncertain position] **crozalsii** Vouaux: on *Sticta sylvatica* **tretiachii** Hafellner: on **Aspicilia** [= **Pleospora aquatica** Tretiach &	Clauzade et al. 1989 Khodosovtsev & Darmostuk 2016 Tretiach & Nimis 1999 van den Boom 2015		

	Nimis, non Griffiths] **xanthoriae** Khodos. & Darmostuk: on *Xanthoria parietina*			
Sporormiaceae				
Sporormiella	**peltigerae** Brackel: on *Peltigera rufescens*	Brackel 2009		
Trematosphaeriaceae				
Trematosphaeria	**lophiostoma** Choisy & Werner: on *Staurothele*	Clauzade et al. 1989		
Pleosporales incertae sedis				
Berkleasmium	**parmeliellae** Etayo & Diederich: on *Parmeliella testacea*	Etayo & Diederich 1995		
Ellisembia	**lichenicola** Heuchert & U. Braun: on *Pertusaria* and *Physconia*	Heuchert & Braun 2006		
Pseudopyrenidium	**tartaricola** (Linds.) Alstrup & D. Hawksw.: on *Ochrolechia*	Alstrup & Hawksworth 1990 Navarro-Rosinés et a. 2010		
Trypetheliales				
Polycoccaceae				
Clypeococcum	**amylaceum** Etayo: on *Parmotrema* **bisporum** Zhurb.: on *Cetraria* and *Flavocetraria* **cajasense** Etayo: on *Hypotrachyna* **rugosisporum** Etayo & Zhurb.: on *Parmotrema* **cetrariae** Hafellner: on *Cetraria islandica* **cladonema** (Wedd.) D. Hawksw.: on *Cetrelia* and *Xanthoparmelia* **epimelanostolum** (D. Hawksw. & Øvstedal) Grube & Hafellner: on *Buellia melanostola* **galloides** Etayo: on *Lecidea* s. lat. **grossum** (Körb.) D. Hawksw.: on *Umbilicaria*	Ertz et al. 2015 Etayo 2010b Etayo 2017 Etayo & Triebel 2010 Grube & Hafellner 1990 Hafellner 1994a Hafellner 1995 Hawksworth 1977a Hawksworth 1980a Hawksworth 1982a Navarro-Rosinés et al. 1994 Øvstedal & Hawksworth 1986 Zhurbenko 2009a Zhurbenko et al. 2016	**hypocenomycis**: Culture obtained by Crittenden et al. (1995)	**placopsiiphilum** (Diederich 17576): ITS: KT383789 **psoromatis** (Ertz 19259): ITS: KT383790

	hypocenomycis D. Hawksw.: on *Hypocenomyce scalaris* **placopsiiphilum** Øvstedal & D. Hawksw.: on *Placopsis* **psoromatis** (A. Massal.) Etayo [=*epicrassum* (H. Olivier) Hafellner & Nav.-Ros.]: on *Squamarina* **rugosisporum** Etayo & Zhurb.: on *Parmotrema*			
Polycoccum	**acarosporicola** Halıcı & D. Hawksw.: on *Acarospora cervina* **aksoyi** Halıcı & V. Atienza: on *Aspicilia* **alboatrae** (Vouaux) Etayo: on *Diplotomma venustum* **amygdalariae** F. Berger & Triebel: on *Amygdalaria* **anatolicum** Halıcı & E.Akgül: on *Lepraria incana* **arnoldii** (Hepp) D. Hawksw.: on *Diploschistes* and *Rhizocarpon* **cartilaginosum** (Arnold) D. Hawksw.: on an unidentified saxicolous lichen? **cladoniae** Diederich & D. Hawksw.: on *Cladonia* **clauderouxii** S. Y. Kondr., L. Lőkös & J.-S. Hur: on *Zeroviella laxa* **clauzadei** Nav.-Ros. & Cl. Roux: on *Xanthoria elegans* **crassum** Vězda: on *Peltigera* **crespoae** Váczi & D. Hawksw.: on *Chondropsis* **decolorans** Calat. & Triebel: on *Immersaria*	Alstrup 2002 Aptroot el 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 Ertz et al. 2015 Etayo 2010b Etayo 2010c Etayo & Diederich 1998 Etayo & Sancho 2008 Galloway 2004 Gaya & Navarro-Rosinés 2008 Hafellner 2015 Halıcı et al. 2007a Halıcı et al. 2009a Halıcı et al. 2013 Hawksworth 1985b Hawksworth & Diederich 1988 Hawksworth & Miadlikowska 1997a Kocourková & Berger 1999 Kondratyuk et al. 2016b Lord et al. 2013 Matzer 1996	**peltigerae**: CBS 112.77	**clauzadei** (Freebury 2089): nrLSU: KT383804 **pulvinatum** (Diederich 17389): nrLSU: KT383805 **pulvinatum** (Ertz 18114): nrLSU: KT383806 **trypethelioides** (Diederich 17508): nrLSU: KT383807 **vermicularium** (Diederich 17545): nrLSU: KT383808 **vermicularium** (OTA58708): nrLSU: AY961601

	deformans R. Sant., nom. nud.: on *Placopsis* **dictyonematis** Etayo & R. Sant.: on *Dictyonema* **diederichianum** Nav.-Ros.: on *Placynthium* **dzieduszyckii** (Boberski) D. Hawksw.: on *Baglietto*a **epiphyllum** Matzer: on foliicolous **Trichothelium** **epizoharyi** Calat. & V. Atienza: on *Buellia zoharyi* **evae** Calat. & V.J. Rico: on *Dimelaena* **follmannii** (C.W. Dodge) Alstrup: on *Lecidea cremoricolor* **heterodermiae** Calat.: on *Heterodermia* **hymeniicola** (Berk. & Broome) Zhurb.: on *Lobaria* **ibericum** Etayo & van den Boom: on *Rinodina* **innatum** (Müll. Arg.) D. Hawksw.: on an unidentified corticolous lichen **jamesii** D. Hawksw.: on *Psoromidium* **kerneri** 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*	Navarro-Rosinés 1992 Navarro-Rosinés & Roux 1990 Navarro-Rosinés & Roux 1998 Váczi & Hawksworth 2001 van den Boom 2010 van den Boom & Etayo 2014 Zhurbenko 2007b Zhurbenko 2010b Zhurbenko & Dillman 2010		

	minutulum Kocourk. & F. Berger: on *Trapelia* **montis-wilhelmii** Diederich: on *Hypotrachyna* **nigrosporum** Etayo: on *Buellia aethalea* **opulentum** (Th. Fr. & Almq.) Arnold: on *Polyblastia* **peltigerae** (Fuckel) Vězda: on *Peltigera* **psorae** Zhurb. & Triebel: on *Anamylopsora pulcherrima* **pulvinatum** (Eitner) R. Sant.: on *Physcia* **rinodinae** van den Boom: on *Rinodina* **rubellianae** Calat. & V. Atienza: on *Caloplaca* **rugulosarium** (Linds.) D. Hawksw.: on *Caloplaca* **serusiauxii** Matzer: on foliicolous *Byssolecania* **sporastatiae** Arnold: on *Sporastatia* **squamarioides** (Mudd) Arnold: on *Placopsis* **stellulatae** (Vouaux) Hafellner: on *Buellia stellulata* **stictaria** (Linds.) D.J. Galloway: on *Pseudocyphellaria* **superficiale** D. Hawksw. & Miądl.: on *Peltigera* **teresum** Halıcı & K. Knudsen: on *Xanthoria* **tinantii** Diederich: on *Caloplaca* **trypethelioides** (Th. Fr.) R. Sant.: on *Stereocaulon* **umbilicariae** (Linds.) D. Hawksw.: on *Lasallia*			

	ventosicola Zhurb.: on *Ophioparma ventosa* **vermicularium** (Linds.) D. Hawksw.: on *Thamnolia* **versisporum** (Bagl. & Carestia) D. Hawksw.: on *Rhizocarpon geographicum* and an unidentified saxicolous lichen			
Tubeufiales				
Tubeufiaceae				
Lichenotubeufia	**boomiana** Etayo: on *Sticta* **eriodermae** (Etayo) Etayo: on *Erioderma* **heterodermiae** (Etayo) Etayo: on *Heterodermia* and *Physcia* **pannariae** (Etayo) Etayo: on *Pannaria rubiginosa* **tafallae** Etayo: on *Leptogium*	Etayo 2002a Etayo 2002b Etayo 2017		
Venturiales				
Venturiaceae				
Spilodochium	**parmotrematis** Diederich & Etayo: on *Parmotrema*	Etayo & Diederich 1995		
Dothideomycetes incertae sedis				
Naetrocymbaceae				
Leptorhaphis	**haematommatum** Hafellner & Kalb: on *Haematomma*	Kalb et al. 1995		
Pseudoperisporiaceae				
Keratosphaera	**antoniana** Flakus, Farkas & Lücking: on foliicolous *Trichothelium* **batistae** H. B. P. Upadhyay: on foliicolous *Mazosia* [anamorphs: *Sphaeromma mazosiae* H. B. P. Upadhyay and *Sporhaplus rondoniensis* H. B. P. Upadhyay]	Farkas 2010 Matzer 1996		

	dimerellae Matzer: on foliicolous *Dimerella* **furcatiseta** Matzer: on foliicolous *Porina* [anamorph: *Sphaeromma furcatiseta* Matzer] **porinae** Matzer: on foliicolous *Porina* [anamorph: *Sphaeromma porinae* Matzer]			
Myxophora	**apotheciicola** Nik. Hoffm. & Hafellner: on *Leptogium azureum* **leptogiophila** (G. Winter) Nik. Hoffm. & Hafellner: on *Collema* and *Leptogium plicatile* **ovalispora** Nik. Hoffm. & Hafellner: on *Collema* **placynthii** Nik. Hoffm. & Hafellner: on *Placynthium caesium* **tetraspora** Nik. Hoffm. & Hafellner: on *Collema flaccidum*	Hoffmann & Hafellner 2000		
Neocoleroa	**inundata** (Vain.) Diederich: on *Bacidina* **lichenicola** (Hansf.) M. E. Barr. subsp. **lichenicola**: on a foliicolous lichen **lichenicola** (Hansf.) M. E. Barr. subsp. **bouteillei** (Bricaud, Cl. Roux & Sérus.) Barr: on *Fellhanera bouteillei*, *Byssoloma* and possibly *Bacidina*	Barr 1997 Hawksworth 1980b Matzer 1996 Roux et al. 1994 Sérusiaux et al. 1999		
Trichothyriaceae				
Lichenopeltella	**arctomiae** Pérez-Ortega & T. Sprib.: on *Arctomia delicatula* **biatorae** Pérez-Ortega & T. Sprib.: on *Biatora flavopunctata* **bunodophoronis** Diederich: on *Bunodophoron* **cetrariicola** (Nyl.) R. Sant.: on *Cetraria*	Aptroot et al. 1997 Brackel 2010c Brackel 2011b Cole & Hawksworth 2002 Earland-Bennett & Hawksworth 1999b Etayo 2010b Etayo 2017 Etayo & Diederich 1996b		

	and *Cetrariella* **cladoniarum** E.S. Hansen & Alstrup: on *Cladonia* subgen. *Cladina* **communis** Etayo: on *Hypotrachyna* **coppinsii** Earl.-Benn. & D. Hawksw.: on *Verrucaria* **epiphylla** R. Sant.: on foliicolous *Mazosia* and *Porina* **heppiae** van den Boom: on *Heppia* **heterodermiae** Diederich: on *Heterodermia* **heterodermiicola** M.S. Cole & D. Hawksw.: on *Heterodermia* **heterodermiicola** subsp. **endothallina** Etayo: on *Heterodermia* **hydrophila** R. Sant.: on *Verrucaria* **hypogymniae** Diederich: on *Hypogymnia zeylanica* **hypotrachynae** Diederich: on *Hypotrachyna* **leprosulae** Pérez-Ortega & T. Sprib.: on *Myochroidea leprosula* **leptogii** Diederich: on *Leptogium* **lobariae** Etayo & Diederich: on *Lobaria* **maculans** (Zopf) Höhn.: on *Umbilicaria* **megalosporae** Diederich: on *Megalospora* **microspora** Diederich: on *Parmeliella* **minuta** R. Sant.: on *Marchandiomphalina foliacea* **pannariacearum** Diederich: on Pannariaceae **peltigericola** (D. Hawksw.) R. Sant.: on *Peltigera*	Etayo & Sancho 2008 Hansen & Alstrup 1995 Hariharan et al. 1996 Matzer 1996 Molitor & Diederich 1997 Pérez-Ortega & Spribille 2009 Santesson 1988 Santesson 1989 Santesson 1998 Santesson 2001 van den Boom & Giralt 2012 Zhurbenko 2010a Zhurbenko & Pino-Bodas 2015		

	physciae Diederich: on *Physcia* **pseudocyphellariae** Diederich: on *Pseudocyphellaria* **ramalinae** Etayo & Diederich: on *Ramalina* **rangiferinae** Brackel: on *Cladonia* **santessonii** (P.M. Kirk & Spooner) R. Sant.: on *Peltigera* **sclerenchymatica** Etayo: on *Pseudocyphellaria* **setifera** Matzer: on foliicolous *Bacidia* **soiliae** Zhurb. & Pino-Bodas: on *Cladia* **stereocaulorum** Zhurb.: on *Stereoculon* **swaminathaniana** Harih., Mibey & D. Hawksw.: on *Porina* **thalamica** Etayo, Flakus & Kukwa: on *Pseudocyphellaria* **thamnoliae** R. Sant.: on *Thamnolia* **thelidii** Diederich: on *Thelidium* **uncialicola** Brackel: on *Cladonia uncialis*			
Incertae sedis				
Ascohansfordiellopsis	**deightonii** D. Hawksw.: on foliicolous lichens **insectivora** (Hansf.) D. Hawksw.: on foliicolous lichens	Hawksworth 1979a		
Cercidospora	**alpina** Ihlen & Wedin: on *Stereocaulon cumulatum* **anomala** Etayo: on *Pertusaria pertusa* **caudata** Kernst.: on *Caloplaca* **cecidiiformans** Grube & Hafellner: on *Rhizocarpon* **cephalodiorum** Triebel & Grube: on *Pilophorus dovrensis*	Alstrup 1997 Alstrup et al. 1994 Clauzade et al. 1989 Etayo 2010a Etayo 2017 Hafellner 1987b Hafellner 1993 Hafellner & Obermayer 1995 Ihlen 1995 Ihlen 1998		

	cladoniicola Alstrup: on *Cladonia arbuscula* **crozalsiana** (H. Olivier) Nav.-Ros., Cl. Roux & Casares: on *Squamarina* **decolorella** (Nyl.) O. Eriksson & Yue: on terricolous algae, mosses and lichens **epicallopisma** Arnold: on *Caloplaca aurantia* **epicarphinea** (Nyl.) Grube & Hafellner: on *Caloplaca* gr. *carphinea* **epipolytropa** (Mudd) Arnold: on *Lecanora* **epithamnolia** Zhurb.: on *Thamnolia* **exiguella** (Nyl.) Arnold: on *Rinodina mniaraea* **galligena** Hafellner & Nav.-Ros.: on *Aspicilia* **hypotrachynicola** Etayo: on *Hypotrachyna* **lecidomae** Zhurb. & Triebel: on *Lecidoma demissum* **lobothalliae** Nav.-Ros. & Calat.: on *Lobothallia* **macrospora** (Uloth) Hafellner & Nav.-Ros.: on *Protoparmeliopsis muralis* **melanophthalmae** Nav.-Ros., Calat. & Hafellner, nom. nud.: on *Rhizoplaca melanophthalma* **mutabilicola** Calat. et al., nom. nud.: on *Megaspora verrucosa* var. *mutabilis* **ochrolechiae** Zhurb.: on *Ochrolechia* and *Pertusaria coriaceae* **parva** Hafellner & Ihlen: on *Baeomyces* **pluriseptata** (Nyl.) Arnold: on crustose	Ihlen & Wedin 2007 Navarro-Rosinés et al. 1995 Navarro-Rosinés et al. 2004 Navarro-Rosinés et al. 2009a Triebel 1989 Triebel & Scholz 2001 Zhurbenko 2010b Zhurbenko 2012 Zhurbenko & Triebel 2003 Zhurbenko et al. 1995		

	saxicolous lichens **punctillata** (Nyl.) R. Sant. [= *C. lichenicola* (Zopf) Hafellner]: on *Solorina* and *Peltigera* **solearispora** Calat., Nav.-Ros. & Hafellner: on *Aspicilia* **soror** Obermayer & Triebel: on *Arthrorhaphis citrinella* **stereocaulorum** (Arnold) Hafellner: on *Stereocaulon* **thamnogalloides** Zhurb.: on *Thamnolia* **thamnoliae** Zhurb.: on *Thamnolia* **thamnoliicola** Ihlen: on *Thamnolia* **trypetheliza** (Nyl.) Hafellner & Obermayer [= *C. arthrorhaphidicola* Alstrup]: on *Arthrorhaphis alpina* **verrucosaria** (Linds.) Arnold: on *Megaspora* **werneri** Nav.-Ros., Calat. & Hafellner: on *Aspicilia* **xanthoriae** (Wedd.) R. Sant.: on *Xanthoria*			
Echinothecium	**aerophilum** Alstrup & M. S. Cole: on *Alectoria* **reticulatum** Zopf: on **Parmelia**	Alstrup & Cole 1998 Clauzade et al. 1989 Roux & Triebel 1994 Zhurbenko & Pino-Bodas 2015	**reticulatum**: Culture obtained by Crittenden et al. (1995)	
Fusicladium	*peltigericola* Crous & Diederich: isolated from *Peltigera*, possibly lichenicolous	Crous et al. 2011	**peltigericola**: CBS 128206	*peltigericola* (CBS 128206): nrSSU+ITS+nrLSU: HQ599579
Hobsoniopsis	**santessonii** (Lowen & D. Hawksw.) D. Hawksw.: on *Peltigera*, mainly *P. scabrosa*	Lowen et al. 1986 Sikaroodi et al. 2001	**santessonii**: ATCC 200311	**santessonii** (ATCC 200311): nrSSU: AF289658
Homostegia	**dermatocarponis** [as *dermatocarpae*] Alstrup & M. S. Cole: on *Dermatocarpon* **hertelii** D. Hawksw., V. Atienza & M. S.	Alstrup & M. S. Cole 1998 Hawksworth et al. 2004		

	Cole: on *Flavoparmelia caperata* **piggottii** (Berk. & Broome) P. Karst.: on *Parmelia* s. str.			
Koordersiella	**deightonii** (D. Hawksw.) D. Hawksw. & O. E. Erikss.: on foliicolous *Porina* and ?Gomphillaceae [anamorph: *Hansfordiellopsis elongata* D. Hawksw.] **insectivora** (Hansf.) D. Hawksw. & O. E. Erikss.: on foliicolous *Asterothyrium* [anamorph: *Hansfordiellopsis lichenicola* (Bat. & Maya) Deight.] **javanica** Höhn.: on Gomphillaceae **Hansfordiellopsis minuta** D. Hawksw.: on foliicolous lichens **Hansfordiellopsis tenuissima** D. Hawksw.: on foliicolous lichens **Hansfordiellopsis variegata** D. Hawksw.: on foliicolous lichens, incl. *Bullatina aspidota*	Eriksson & Hawksworth 1987 Hawksworth 1979a Matzer 1996		
Lanatosphaera	**dimerellae** Matzer: on foliicolous *Dimerella epiphylla* **porinicola** Matzer: on foliicolous *Porina epiphylla*	Matzer 1996		
Macrographa	**antarctica** Etayo: on *Nephroma antarcticum*	Etayo & Sancho 2008		
Monodictys	**anaptychiae** (Lindau) D. D. Hawksw.: on *Anaptychia* **cellulosa** S. Hughes [?= *lepraria* (Berk.) M. B. Ellis]: on various crustose, corticolous lichens **epilepraria** Kukwa & Diederich: on *Lepraria* **fuliginosa** Etayo: on *Lobaria*	Etayo & Diederich 1996b Hawksworth 1975a Hawksworth 1979a	**lepraria**: UAMH; DUM **lepraria**: CBS 533.77	
Pseudonitschkia	**parmotrematis** Coppins & S. Y. Kondr.:	Coppins & Kondratyuk 1995		

	on *Parmotrema*			
Pseudorobillarda	**peltigerae** Diederich: on *Peltigera*	van den Boom et al. 1998		
Pyrenidium	**actinellum** Nyl.: on *Leptogium* **aggregatum** Knudsen & Kocourk.: on *Phaeophyscia* and *Physcia* **coccineum** Aptroot: on *Siphula decumbens* **crozalsii** (Vouaux) Nav.-Ros. & Cl. Roux comb. ined.: on *Aspicilia* gr. *calcarea* **cryptotheciae** Matzer: on foliicolous *Cryptothecia candida* **hetairizans** (Leight.) D. Hawksw.: on *Staurothele* **octosporum** Looman: on an unidentified lichen **santessonii** Lücking: on *Bacidia psychotriae* and *Bapalmuia* **sporopodiorum** Matzer: on foliicolous *Sporopodium* **zamiae** (Müll. Arg.) Matzer: on foliicolous *Porina*	Aptroot 2014 Looman 1962 Lücking 1998 Matzer 1996		
Rhabdospora	**haematommatum** Kalb & Hafellner: on *Haematomma*	Kalb et al. 1995		
Rosellinula	**frustulosae** (Vouaux) R. Sant.: on *Lecanora frustulosa* and *L. argopholis* **haplospora** (Th. Fr.) R. Sant.: on *Aspicilia* and *Bellemerea* **kalbii** (Hafellner) Hafellner & R. W. Rogers: on *Haematomma puniceum* **lopadii** (Vouaux) D. J. Galloway: on *Brigantiaea*	Galloway 2004 Hafellner 1985a Hafellner 2004		
Sphaerellothecium	**abditum** Triebel: on *Immersaria* and *Lecidea* **aculeatae** Khodos., Gavrylenko &	Alstrup & Cole 1998 Diederich 2007b Diederich & Zhurbenko 2009 Etayo 2008		

	Klymenko: on *Cetraria aculeata* **araneosum** (Arnold) Zopf: on *Ochrolechia*, *Lepra* and *Varicellaria* **araneosum** (Arnold) Zopf var. **cladoniae** Alstrup & Zhurb.: on *Cladonia* subgen. *Cladonia* and *Stereocaulon* **atryneae** (Arnold) Cl. Roux & Triebel: on *Lecanora bicincta*, *L. cenisia*, *L. rupicola* and *L. swartzii* **breussii** K. Knudsen, Kocourk. & Etayo: on *Placidium lacinulatum* **buelliae** (C.W. Dodge) D. Hawksw. & Iturr.: on *Buellia* **cinerascens** Etayo & Diederich: on *Cladonia parasitica* **cladoniicola** E. S. Hansen & Alstrup: on **Cladonia** subgen. **Cladina** **conioides** (Nyl.) Cl. Roux & Diederich: on *Baeomyces rufus* **contextum** Triebel: on *Calvitimela*, *Protoparmelia*, *Rhizocarpon*, *Rhizoplaca* and *Sporastatia* **epilecanora** Zhurb.: on *Lecanora epibryon* **episoralium** Etayo: on soralia of *Heterodermia* **episquamarinae** Etayo: on *Squamarina lentigera* **gallowayi** Diederich: on *Heterodermia* **giraltiae** van den Boom: on *Rinodina* **gowardii** Alstrup & M. S. Cole: on *Acarospora schleicheri* **heterodermiae** van den Boom: on *Heterodermia*	Etayo 2017 Etayo & Diederich 1998 Etayo & Sancho 2008 Gardiennet & Roux 2013 Hafellner 1993 Hansen & Alstrup 1995 Hawksworth & Iturriaga 2006 Khodosovtsev et al. 2016 Knudsen et al. 2009b Roux & Triebel 1994 Triebel 1989 Triebel et al. 1991 van den Boom 2010 van den Boom 2016 Zhurbenko 2007b Zhurbenko 2008 Zhurbenko 2012 Zhurbenko 2015 Zhurbenko & Alstrup 2004 Zhurbenko & Brackel 2013 Zhurbenko & Triebel 2008		

	icmadophilae (R. Sant.) Zhurbenko: on *Icmadophila ericetorum* **leratianum** Gardiennet & Cl. Roux: on *Brodoa* **minutum** Hafellner: on *Sphaerophorus* **pannariacearum** Etayo: on *Pannaria* **parietinarium** (Linds.) Hafellner & V. John: on *Xanthoria* **parmeliae** Diederich & Etayo: on *Parmelia* **parmotrematis** [as '*parmotremae*'] van den Boom: on *Parmotrema* **phaeorrhizae** Diederich & Zhurb.: on *Phaeorrhiza sareptana* **propinquellum** (Nyl.) Cl. Roux & Triebel: on *Lecanora carpinea* group **siphulae** Zhurb.: on *Siphula ceratites* **soechtingii** Zhurb. & Alstrup: on *Arthrorhaphis alpina* **stereocaulorum** Zhurb.: on *Stereocaulon* **subtile** Triebel & Rambold: on *Teloschistes* **thamnoliae** Zhurb.: on *Thamnolia* **thamnoliae** Zhurb. var. **taimyricum** Zhurb.: on *Thamnolia* **usneicola** Etayo: on *Usnea*			
Sporidesmium	**bacidiicola** Alstrup: on *Bacidia rubella* **lichenicola** Iturr., D. Hawksw. & J. L. Crane: on *Leptogium* **usneae** Etayo: on *Usnea*	Alstrup (1991) Etayo 2017 Iturriaga et al. (2008)		
Stromatopogon	**baldwinii** Zahlbr.: on *Usnea* **cladoniae** Diederich & Sérus.: on *Cladonia* **geminatum** Etayo & Breuss: on *Usnea*	Diederich 1992a Diederich & Sérusiaux 2003 Etayo & Breuss 2004		
Teratoschaeta	**rondoniensis** Bat. & O. M. Fonseca: on	Matzer 1996		

	foliicolous *Mazosia* and other Roccellaceae [anamorph: *Ampullifera amoeboides*] **Ampullifera foliicola** Deight.: on foliicolous lichens **Ampullifera hippocrateacearum** (Bat. & Caval.) D. Hawksw.: on foliicolous *Mazosia* and other lichens **Ampullifera leonensis** Deight.: on foliicolous lichens **Ampullifera pirozynskii** D. Hawksw.: on foliicolous lichens **Ampullifera ugandensis** Deight.: on foliicolous lichens			
Trematosphaeriopsis	**parmeliana** (Jacz.) Elenkin: on *Xanthoparmelia*	Hafellner 2001		
Weddellomyces	**aspiciicola** Alstrup: on *Lobothallia* **epicallopisma** (Wedd.) D. Hawksw.: on *Caloplaca* and *Protoblastenia* **erythrocarpae** Nav.-Ros. & Cl. Roux: on *Caloplaca erythrocarpa* **gasparriniae** (C.W. Dodge) D. Hawksw. & Iturr.: on ?*Caloplaca* **geographicola** (Arnold) Alstrup & D. Hawksw.: on *Rhizocarpon* **heterochrous** Nav.-Ros. & Cl. Roux: on *Aspicilia* **macrosporus** D. Hawksw., Renob. & Coppins: on *Aspicilia calcarea* **pachyosporicola** Nav.-Ros. & Cl. Roux: on *Aspicilia* **peripheric**us (Taylor) Alstrup & D. Hawksw.: on *Pertusaria pseudocorallina* **protearius** Nav.-Ros. & Cl. Roux: on	Alstrup 1992 Alstrup & Hawksworth 1990 Calatayud & Navarro-Rosinés 1998 Halıcı et al. 2006 Hawksworth 1978a Hawksworth 1986 Hawksworth 1990a Hawksworth & Iturriaga 2006 Navarro-Rosinés & Roux 1995 Navarro-Rosinés & Roux 1997b		

	Caloplaca proteus **turcicus** Halıcı & Orange: on *Acarospora* **xanthoparmeliae** Calat. & Nav.-Ros.: on *Xanthoparmelia*			

Home

	Species (**lichenicolous fungi in bold**; *lichenicolous lichens or facultative lichenicolous fungi in italics*)	**Significant literature**	Cultures (with accession numbers when known; **culture collection links**)	Sequences (with accession numbers)
ASCOMYCOTA				
EUROTIOMYCETES				
CHAETOTHYRIOMYCETIDAE				
Chaetothyriales				
Epibryaceae				
Epibryon	**conductrix** (Norman) Nik.Hoffm. & Hafellner [= *Stigmidium catapyrenii* Cl. Roux & Triebel]: on *Catapyrenium cinereum* and *C. daedaleum* **lichenicola** Matzer: on *Mazosia* **parvipunctum** (Stein) Diederich: on *Thelidium* **solorinae** (Vain.) Nik. Hoffm. & Hafellner: on *Solorina*	Hoffmann & Hafellner 2000 Matzer 1996 Sérusiaux et al. 1999		
Herpotrichiellaceae				
Capronia	**amylacea** Etayo: on *Peltigera* **andina** Etayo: on *Placopsis gelida* **baeomycetis** Diederich: on *Baeomyces* **epilobarina** S. Y. Kondr. & D. J. Galloway: on *Lobaria*	Aptroot el al. 1997 Etayo 2002a Etayo 2003 Etayo 2010b Etayo 2017 Etayo & Diederich 1998		

	etayoi Flakus & Kukwa: on *Dictyonema* **guatemalensis** Etayo: on *Parmotrema* [as '*guatamalense*'] **hypotrachynae** Etayo & Diederich: on *Hypotrachyna* **josefhafellneri** Zhurb. & Etayo: on *Septotrapelia triseptata* **leopoldiana** Etayo: on *Leptogium* **leptogii** Etayo & Diederich: on *Leptogium* **magellanica** Etayo: on *Fuscopannaria* **minutosetosae** Halıcı, D. Hawksw., A. O. Türk & Candan: on *Thelenella muscorum* **muellerelloides** Etayo: on *Heterodermia* **normandinae** R. Sant. & D. Hawksw.: on *Normandina pulchella* **paranectrioides** Etayo, Flakus & Kukwa: on *Erioderma* **pseudonormandinae** Diederich: on *Normandina simodensis* **santessonii** Etayo: on *Dictyonema* **solitaria** Etayo: on *Heterodermia* and perhaps on *Lobaria*, *Lobariella* and *Sticta* **suijae** Tsurykau & Etayo: on *Xanthoria parietina* **thamnoliae** Zhurb.: on *Thamnolia*	Etayo & Sancho 2008 Etayo & van den Boom 2006 Etayo et al. 2013b Flakus & Kukwa 2012 Halıcı et al. 2010 Hawksworth 1990a Kondratyuk & Galloway 1995a Tsurykau & Etayo 2017 Zhurbenko 2012 Zhurbenko et al. 2016		
Cladophialophora	**cladoniae** (Diederich) Diederich: on *Cladonia* **hawksworthii** (Etayo & Diederich) Diederich: on *Megalospora tuberculosa* **megalosporae** Diederich: on *Megalospora pachycheila* **normandinae** (Diederich & Etayo) Diederich: on *Normandina pulchella*	Diederich 2010 Diederich et al. 2013 Etayo & Diederich 1995 Etayo & Diederich 1996a Etayo & Sancho 2008	**parmeliae**: CBS 129337 **parmeliae**: CBS 132232	**parmeliae** (CBS 129337): ITS: JQ342180; nrLSU: JQ342182 **parmeliae** (CBS 132232): nrLSU: JX081671

	parmeliae (Etayo & Diederich) Diederich & Unter.: on *Parmelia* s. lat., also on *Lobaria* and *Pannaria*			
Chaetothyriaceae s. lat.				
Knufia	**peltigerae** (Fuckel) Réblová & Unter.: on *Peltigera*	Hawksworth 1980b Réblová et al. 2013 Untereiner et al. 2011	**peltigerae**: UAMH 11090	**peltigerae** (UAMH 11090): nrLSU: HQ613813; nrSSU: HQ613815; mtSSU: HQ613814; *RPB1*: HQ625027
Chaetothyriales incertae sedis				
Biciliopsis	**cladoniae** Zhurb., Pino-Bodas & Diederich: on *Cladonia* **leptogiicola** Diederich: on *Leptogium*	Aptroot el al. 1997 Hoffmann & Hafellner 2000 Zhurbenko & Pino-Bodas 2017		
Lichenodiplis	**anomala** [as anomalus] Etayo & Pérez-Vargas: on *Ochrolechia* **crespoae** Pérez-Ortega & V. Atienza: on *Calicium notarisii* **dendrographae** Diederich & van den Boom: on *Dendrographa* **fallaciosa** (Hafellner & Kalb) Diederich: on *Buellia* and *Orcularia* **hawksworthii** F. Berger & Diederich: on *Pertusaria* **lecanorae** (Vouaux) Dyko & D. Hawksw.: on *Caloplaca*, *Lecanora* and other crustose lichens **lecanoricola** (M. S. Cole & D. Hawksw.) Diederich: on *Lecanora* **lichenicola** Dyko & D. Hawksw.: on *Rinodina* **ochrolechiae** Y. Joshi & M. Tripathi: on *Ochrolechia* **opegraphae** (D. Hawksw.) Diederich: on *Opegrapha*	Berger & Diederich 1996 Berger & LaGreca 2014 Diederich 2003 Cole & Hawksworth 2001 Hawksworth 1981 Hawksworth & Dyko 1979 Joshi et al. 2016a Kalb 1990 Knudsen & Kocourková 2009 Kondratyuk 1996a Muggia et al. 2015 Pérez-Vargas et al. 2013		

	poeltii S. Y. Kondr. & D. Hawksw.: on *Xanthoria parietina* **rinodinicola** Kocourk. & K. Knudsen: on *Rinodina*			
Muellerella	**antarctica** Etayo: on *Hypogymnia antarctica* **atricola** (Linds.) Sacc. & D. Sacc.: on *Tephromela atra* **erratica** (A. Massal.) Hafellner & V. John: on diverse lichens **hospitans** Stizenb.: on *Bacidia rubella* **lecanactidis** Diederich & van den Boom: on *Sigridea californica* **lichenicola** (Sommerf.) D. Hawksw.: on diverse lichens **polyspora** Müll. Arg.: on diverse lichens **pygmaea** (Körb.) D. Hawksw.: on on diverse lichens **stictinae** (H. Olivier) Vouaux: on *Sticta* **thalamita** (Nyl.) D, Hawksw., F. Berger & LaGreca: on *Baculifer*, *Orcularia* and *Hafellia* **triseptata** Diederich: on *Buellia griseovirens* and other lichens **ventosicola** (Mudd) D. Hawksw.: on *Ophioparma*, possibly also on *Rhizocarpon* **vesicularia** (Linds.) D. Hawksw.: on *Toninia*	Berger & LaGreca 2014 Clauzade et al. 1989 Diederich 1986 Diederich 2003 Etayo & Sancho 2008 Hawksworth 1985a Muggia et al. 2015 Triebel 1989	**pygmaea**: Culture obtained by Crittenden et al. (1995)	
Pyrenulales				
Requienellaceae				
Distopyrenis	**japonica** Harada: on *Graphis proserpens*	Harada 2000		
Lacrymospora	**parasitica** Aptroot: probably lichenicolous	Aptroot 1991		

	on a sterile corticolous lichen (?*Myriothrema*)			
Parapyrenis	**lichenicola** Aptroot & Diederich: on ?*Pertusaria*	Aptroot et al. 1997		
Verrucariales				
Adelococcaceae				
Adelococcus	**alpestris** (Zopf) Theiss. & Syd.: on *Acarospora glaucocarpa* and *A. macrospora* **immersus** Etayo & Breuss: on **Dermatocarpon biennense** **interlatens** (Arnold) Matzer & Hafellner: on *Clauzadea immersa*, *Hymenelia prevostii* and *Sarcogyne regularis* **porocyphii** S. Zelanko & S. Y. Kondr.: on *Porocyphus*	Etayo & Breuss 1998 Kondratyuk & Zelenko 2002 Matzer & Hafellner 1990		
Sagediopsis	**aquatica** (Stein) Triebel: on *Koerberiella wimmeriana* **aspiciliae** Nik. Hoffm. & Hafellner: on *Aspicilia myrinii* **barbara** (Th. Fr.) R. Sant. & Triebel: on *Porpidia glaucophaea* **bayozturkii** Halıcı, Güllü & Parnikoza: on *Acarospora mycrocyclos* **campsteriana** (Linds.) D. Hawksw. & R. Sant.: on *Ochrolechia* **dissimilis** Triebel: on *Paraporpidia leptocarpa* **fissurisedens** Hafellner: on *Aspicilia myrinii* **lomnitzensis** (Stein) Orange: on *Ionaspis lacustris* and *I. odora* **pertusariicola** Zhurb.: on *Pertusaria*	Alstrup & Hawksworth 1990 Hafellner 1993 Halıcı et al. 2017 Hoffmann & Hafellner 2000 Orange 2002 Triebel 1989 Triebel 1993 Zhurbenko 2009c Zhurbenko & Yakovchenko 2014		

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

	Trapelia			
Clauzadella	**gordensis** Nav.-Rox. & Cl. Roux: on *Verrucaria viridula*	Navarro-Rosinés & Roux 1996		
Endococcus	**alectoriae** D. Hawksw.: on *Alectoria* **apiciicola** (J. Steiner) R. Sant.: on *Usnea* **brachysporus** (Zopf) M. Brand & Diederich: on *Porpidia* **buelliae** (C. W. Dodge) Matzer: on *Dimelaena radiata* **Microthelia calcaricola** Mudd: on *Aspicilia* **caudisporus** J. C. David & Etayo: on *Collema auriforme* **cladiae** Zhurb. & Pino-Bodas: on *Cladia* **complanatae** Arnold: on *Miriquidica* **exerrans** Nyl.: on *Rhizocarpon* **Verrucaria fumosaria** Leight.: on *Lecidea fuscoatra* **fusiger** Th. Fr. & Almq.: on *Rhizocarpon* **incrassatus** Etayo & Breuss: on *Placidiopsis* **karlstadtensis** Kocourk. & Brackel: on *Endocarpon* Tichothecium latzelii Keissl.: on *Collema* **macrosporus** (Arnold) Nyl.: on *Rhizocarpon* **matzeri** D. Hawksw. & Iturr.: on *Buellia muscicola* **nanellus** Ohlert: on *Stereocaulon* **oreinae** Hafellner: on *Dimelaena oreina* **oropogonicola** Etayo: on *Oropogon* **pallidosporus** Etayo: on	Alstrup 1993b Alstrup 1996 Alstrup et al. 1994 Brackel & Kocourková 2006 David & Etayo 1995 Etayo 2002a Etayo 2010b Etayo 2017 Etayo & Breuss 2001 Etayo & Sancho 2008 Hafellner 1994a Hafellner et al. 2002 Hafellner et al. 2008 Halıcı et a1. 2007b Hawksworth 1979b Hawksworth 1982a Hawksworth & Iturriaga 2006 Joshi et al. 2015 Kocourková & Knudsen 2011a Matzer 1993 Matzer et al. 1996 Santesson 1994b Sérusiaux et al. 1999 Triebel 1989 Zhurbenko & Pino-Bodas 2015 Zhurbenko et al. 2012	**rugulosus**: Culture obtained by Crittenden et al. (1995)	**fusigera** (Orange 17098): nrSSU+ITS+nrLSU: FJ645262

	Pseudocyphellaria **parentium** Etayo: on *Pseudocyphellaria* **parmeliarum** Etayo: on *Parmelia saxatilis* **pellax** Nyl.: on *Collema* **peltigericola** Zhurb. & Stepanchikova: on *Peltigera* **perminutus** Vain.: on *Bacidia subincompta* [see Mycobank 511817] **perpusillus** Nyl.: on *Schaereria* **propinquus** (Körb.) D. Hawksw.: on *Porpidia* **protoblasteniae** Diederich: on *Protoblastenia* **pseudocarpus** Nyl.: on *Collema* (and *Heppia*?) **pseudocyphellariae** Etayo: on *Pseudocyphellaria* (also *Nephroma*) **ramalinarius** (Lindsay) D. Hawksw.: on *Ramalina* **rugulosus** (Leight.) Nyl.: on *Verrucaria* **sendtneri** (Arnold) Hafellner: on *Polyblastia sendtneri* **sipmanii** Etayo: on *Heterodermia* **stigma** (Körb.) Stizenb.: on *Acarospora* **thalamita** Cromb.: on *Orcularia* **thamnoliae** Etayo & R. Sant.: on *Thamnolia* **thelommatis** Kocourk. & K. Knudsen: on *Thelomma santessonii* **tricolorans** Alstrup: on *Platismatia glauca* **variabilis** Halıcı, Kocourk. & Diederich: on *Staurothele*			

	verrucisporus Alstrup: on *Ionaspis lacustris* **verrucosus** Hafellner: on *Aspicilia* **xanthoparmeliae** Y. Joshi, S. Y. Kondr., L. Lökös & Hur: on *Xanthoparmelia* **zahlbrucknerella** (Henssen) D. Hawksw.: on *Zahlbrucknerella*			
Haleomyces	**oropogonicola** D. Hawksw. & Essl.: on *Oropogon lopezii*	Hawksworth & Esslinger 1993		
Heteroplacidium	*fusculum* (Nyl.) Gueidan & Cl. Roux: lichen, juvenile parasite on *Aspicilia calcarea* *transmutans* K. Knudsen, Breuss & Kocourk.: lichen, juvenile parasite on *Acarospora socialis*	Breuss 1994 Knudsen et al. 2014		
Halospora	**deminuta** (Arnold) Tomas. & Cif.: on *Polyblastia*, *Staurothele*, *Thelidium* and *Verrucaria*, etc. **discrepans** (Arnold) Hafellner: mainly on *Protoblastenia*, also on *Aspicilia*, *Hymenelia*, *Verrucaria*, etc. **longispora** (Cl. Roux & Nav.-Ros.) Hafellner: on endolithic lichens **scammoeca** (Lettau) Hafellner: on *Polyblastia*, *Thelidium* and *Verrucaria*	Hafellner 2011 Roux et al. 2002 Triebel 1989		
Norrlinia	**medoborensis** S. Y. Kondr.: on *Peltigera* **peltigericola** (Nyl.) Theiss. & Syd.: on *Peltigera* and *Marchandiomphalina foliacea*	Hawksworth 1980b Kondratyuk & Galloway 1995a		**peltigericola** (Palice 4369): nrLSU: AY300845; mtLSU: AY779307; nrSSU: AY779280; mtSSU: AY300896
Phaeospora	**arctica** Horáková & Alstrup: on *Allocetraria*, *Arctocetraria* and *Arctoparmelia* **catolechiae** Zopf: on *Catolechia*	Alstrup & Hansen 2001 Alstrup & Olech 1996 Etayo 2010c Galloway 2004 Hawksworth 1980b		

	wahlenbergii *dermatocarponis* (R. G. Werner) S. Y. Kondr. [nom. inval.?]: on *Dermatocarpon* [probably not a *Phaeospora*] **everniae** Etayo & van den Boom: on *Evernia* **exoriens** (Stirt.) A. L. Sm.: on *Pannaria* **fritzei** Stein: on *Parmelia* [possibly a synonym of *Homostegia piggotii*] **lecanorae** Eitner: on *Myriolecis* **parasitica** (Lönnr.) Arnold: on *Rhizocarpon* [and *Lopadium*?] **peltigericola** D. Hawksw.: on *Peltigera* and *Pseudocyphellaria* [and *Lobaria*?] **perrugosaria** (Linds.) D. J. Galloway: on *Placopsis* **protoblasteniae** Alstrup & Olech: on *Protoblastenia incrustans* **rimosicola** (Mudd) Stein: on *Rhizocarpon* [also reported on *Aspicilia* and *Diplotomma*] **squamarinae** Etayo: on *Squamarina cartilaginea* **subantarctica** Øvstedal & D. Hawksw.: on *Lecania gerlachei* **verrucariae** Alstrup & E. S. Hansen: on *Verrucaria placynthiae*	Hawksworth 1983 Horáková & Alstrup 1994 Kondratyuk & Zelenko 2002 Øvstedal & Hawksworth 1986 Sérusiaux et al. 1999 van den Boom & Etayo 2014 Zhurbenko 2014		
Placidiopsis	*minor* var. *longispora* Etayo & Breuss: lichenicolous lichen on *Diploschistes*	Etayo 2017		
Placocarpus	*americanus* K. Knudsen, Breuss & Kocourk.: lichen, juvenile parasite on *Protoparmeliopsis muralis* *melanophthalmosus* Cl. Roux &	Breuss 1985 Knudsen et al. 2009a Roux & Gueidan 2011 Zhurbenko & Notov 2015		**sp.** (CG-2011): ITS: JF693319 *schaereri* (AFTOL 2289; C. Gueidan 588): ITS: EU006532; nrLSU:

	Gueidan: lichen, juvenile parasite on *Rhizoplaca melanophthalma* *schaereri* (Fr.) Breuss: lichen, juvenile often parasite on *Protoparmeliopsis muralis*			EF643766; nrSSU: EF689850; *RPB1*: EF689770
Placopyrenium	*breussii* Cl. Roux & Gueidan: lichen, juvenile parasite on *Aspicilia calcitrapa* *canellum* Nyl.: lichen, juvenile parasite on *Aspicilia* *cinereoatrum* (Degel.) Orange: facultatively lichenicolous on *Staurothele fissa* *formosum* Orange: lichen, juvenile parasite on *Aspicilia aquatica* *fuscellum* (Turner) Gueidan & Cl. Roux: lichen, juvenile facultative parasite on *Bagliettoa* and *Verrucaria* *noxium* Breuss: lichenicolous lichen on *Staurothele areolata*	Breuss 1998 Breuss 2009 Orange 2004 Orange 2009 Roux & Gueidan 2011		**sp.** (CG-2011): ITS: JF693318
Telogalla	**cajasense** Etayo: on *Leptogium* **olivieri** (Vouaux) Nik. Hoffm. & Hafellner: on *Xanthoria*	Etayo 2017 Hoffmann & Hafellner 2000		
Verrucaria	*cetera* Breuss: lichenicolous lichen on *Staurothele areolata* **conturmatula** Nyl.: on *Ionaspis lacustris* *inficiens* Breuss: lichenicolous lichen on *Staurothele areolata* and *S. elenkinii* *placynthiae* Alstrup & E. S. Hansen: lichenicolous lichen on *Placynthium nigrum*	Alstrup & Hansen 2001 Breuss 1998 Orange 2002		
Verrucula	*aegyptiaca* (Müll. Arg.) J. Steiner: lichenicolous lichen on *Caloplaca* gr.	Hoffman & Hafellner 2000 Navarro-Rosinés et al. 2007 Roux 2014		*arnoldaria* (P. Navarro-Rosines 88091100): ITS: EU006535

	velana *ahlesiana* (Zwackh) J. Steiner: lichen, probably lichenicolous *arnoldaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca arnoldii* *biatorinaria* (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca biatorina* *clauzadaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca clauzadeana* *coccinearia* (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca coccinea* *coronataria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca coronata* *elegantaria* (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Xanthoria elegans* *fulvaria* Nav.-Ros. & Cl. Roux ad int.: lichenicolous lichen on *Caloplaca proteus* *granulosaria* (Clauz. & Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca granulosa* *helvetica* (B. de Lesd.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca cirrochroa* *hladuniana* (Nav.-Ros. & Cl. Roux) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca marina* *inconnexaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca*	Zehetleitner 1978		*arnoldaria* (C. Gueidan 594; AFTOL 2302): ITS: EU006534; nrLSU: EF643816; mtSSU: FJ225713; *RPB1*: EF689816; nrSSU: EF689886 *biatorinaria* (C. Roux 24443; AFTOL 2301): ITS: EU006533; nrLSU: EF643815; nrSSU: EF689887; mtSSU: FJ225714; RPB1: EF689815 *granulosaria* (C. Gueidan 593; AFTOL: 2304): ITS: EU006540; nrLSU: EF643818; nrSSU: EF689889; *RPB1*: EF689818 *granulosaria* (C. Gueidan 592; AFTOL 2303): ITS: EU006539; nrLSU: EF643817; nrSSU: EF689888; mtSSU: FJ225715; *RPB1*: EF689817 *helvetica* (C. Roux 21565): ITS: EU006541 *inconnexaria* (C. Roux 22721; AFTOL 2307): ITS: EU006538; nrLSU: EF643821; mtSSU: FJ225718; *RPB1*: EF689821; nrSSU: EF689892 *inconnexaria* (C. Gueidan 584; AFTOL 2306): ITS: EU006537; nrLSU: EF643820; mtSSU: FJ225717; *RPB1*: EF689820; nrSSU:

	inconnexa *lactearia* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca lactea* s.str. *latericola* (Erichs.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca pusilla* *maritimaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca maritima* *microspora* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca velana* *navasaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca navasiana* *polycarparia* Nav.-Ros. & Cl. Roux.: lichenicolous lichen on *Caloplaca polycarpa* *protearia* (Zehetl.) Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca proteus* *pusillaria* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca pusilla* *tarraconensis* Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca* gr. *velana*			EF689891 *inconnexaria* (C. Gueidan 652; AFTOL 2305): ITS: EU006536; nrLSU: EF643819; mtSSU: FJ225716; *RPB1*: EF689819; nrSSU: EF689890 *pusillaria* (C. Roux 22729): ITS: EU006542
Verruculopsis	*flavescentaria* Gueidan, Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca flavescens* *irrubescentis* (Ménard & Cl. Roux) Gueidan, Nav.-Ros. & Cl. Roux: lichenicolous lichen on *Caloplaca irrubescens* *poeltiana* (Clauz. & Cl. Roux) Gueidan, Nav.-Ros. & Cl. Roux: lichenicolous	Ménard & Roux 1991 Navarro-Rosinés et al. 2007		*flavescentaria* (C. Roux 22714): ITS: EU010260 *poeltiana* (C. Roux 21536; AFTOL 2298): mtSSU: FJ225719

	lichen on *Caloplaca aurantia*			
Verrucariales incertae sedis				
Gemmaspora	**lecanorae** (Werner) D. Hawksw. & Halıcı: on *Aspicilia*	Hawksworth & Halıcı 2007		
Merismatium	**cladoniicola** Alstrup: on *Cladonia ciliata* **coccisporum** (Norm.) Vouaux: on *Amygdalaria*, *Euopsis*, etc. **coccotremicola** Etayo: on *Coccotrema* **corae** (Pat.) Etayo & R. Sant.: on *Dictyonema* **decolorans** (Arnold) Triebel: on *Lopadium*, *Bilimbia*, *Placynthiella*, *Trapeliopsis*, etc. **heterophractum** (Nyl.) Vouaux: on *Biatora*, *Bilimbia*, *Lopadium*, etc. **nigritellum** (Nyl.) Vouaux: on *Catapyrenium*, *Leptogium*, *Lichenomphalia*, *Lopadium*, *Micarea*, *Mycobilimbia*, *Ochrolechia*, *Protoblastenia*, etc. **peregrinum** (Flot.) Triebel: on *Rimularia* **thamnoliicola** Alstrup & E. S. Hansen: on *Thamnolia vermicularis*	Alstrup 1997 Alstrup & Hansen 2001 Etayo 2010b Etayo & Sancho 2008 Hafellner 2011 Hertel & Rambold 1990 Triebel 1989		
Pseudostigmidium	**biseptatum** Etayo: on *Pseudocyphellaria* **confusum** Etayo; on *Pseudocyphellaria* **disparatum** Etayo: on *Pseudocyphellaria* **fumosum** Etayo: on *Pseudocyphellaria* **nephromiarium** (Lindsay) Etayo: on *Nephroma antarcticum*	Etayo & Sancho 2008		
Stigmidium	**acetabuli** Calat. & Triebel: on *Pleurosticta acetabulum* **aggregatum** (Mudd) D. Hawksw.: on *Aspicilia*	Alstrup 1993a Alstrup & Hawksworth 1990 Alstrup & Olech 1996 Berger & Zimmermann 2016 Calatayud & Triebel 1999		

ahtii Etayo & Palice: on apothecia of *Cladonia lopezii*

alectoriae (Lindsay) Etayo: on *Usnea*

allogenum (Nyl.) D. Hawksw.: on *Rhizocarpon*

arthoniae (Arnold) Hafellner: on *Arthonia*

arthrorhaphidis Hafellner & Obermayer: on *Arthrorhaphis citrinella*

aspiciliae (J. Lahm) Cl. Roux: on *Aspicilia* gr. *calcarea*

bellemerei Cl. Roux & Nav.-Ros.: on *Lecania*

beringicum Zhurb. & Triebel: on *Stereocaulon*

buelliae Zhurb. & Himelbrant: on *Buellia disciformis*

californicum K. Knudsen & Kocourk.: on *Caloplaca stanfordensis*

calopadiae Matzer: on foliicolous *Calopadia*

cartilagineae Calat. & Triebel: on *Squamarina*

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

cladoniicola Zhurb. & Diederich: on *Cladonia*

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

coarctatae S. Y. Kondr., L. Lőkös & J.-S. Hur: on *Trapelia coarctata* [ascomata setose: *Niesslia*?]

collematis Cl. Roux & Triebel: on *Collema*

Calatayud & Triebel 2001
Clauzade et al. 1989
Etayo 1994
Etayo 2000
Etayo 2002a
Etayo 2010c
Etayo 2017
Etayo & Sancho 2008
Hafellner 1982c
Hafellner 1994a
Hafellner 1994b
Hafellner & Obermayer 1995
Hafellner et al. 2008
Hawksworth 1975b
Kocourková & Knudsen 2010
Kocourková & Knudsen 2012
Kondratyuk et al. 2016b
Lord et al. 2013
Matzer 1996
Matzer & Hafellner 1990
Molitor & Diederich 1997
Pérez-Ortega et al. 2010
Roux 2014
Roux & Navarro-Rosinés 1994
Roux & Triebel 1994
Roux et al. 1995
Santesson 1989
Santesson 1993b
Triebel 1989
Triebel & Scholz 2001
Roux et al. 1998
van den Boom 2016
van den Boom & Etayo 2017
Zhurbenko & Etayo 2012
Zhurbenko et al. 2012

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

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

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

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

degelii R. Sant.: on *Degelia*

disconephromeum Etayo: on *Nephroma antarcticum*

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

epinesolechia Etayo: on *Nesolechia* galls: on *Punctelia*

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

epiramalina (Vouaux) Hafellner: on *Ramalina*

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

epixanthum Hafellner: on *Acarospora*

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

exasperatum Etayo: on *Melanohalea exasperata*

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

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

glebarum (Arnold) Hafellner: on *Toninia*

grex Alstrup & Olech: on *Ochrolechia* cf. *frigida*

gyrophorarum (Arnold) D. Hawksw.: on

Umbilicaria

Pharcidia haesitans Vouaux: on *Protothelenella sphinctrinoides*

hafellneri Zhurb.: on *Flavocetraria cucullata*

hageniae (Rehm) Hafellner: on *Anaptychia ciliaris*

hesperium Kocourk., K. Knudsen & Diederich: on *Caloplaca coralloides*

heterodermiae Etayo: on *Heterodermia*

humidum Pérez-Ortega, Halıcı & K. Knudsen: on *Thelenella muscorum*

hygrophilum (Arnold) R. Sant.: on *Rhizocarpon* and *Porpidia*

hypotrachynicola Etayo: on *Hypotrachyna*

joergensenii R. Sant.: on *Marchandiomphalina foliacea*

johnii Halıcı & D. Hawksw.: on *Caloplaca*

lecidellae Triebel, Cl. Roux & Le Coeur: on *Lecidella elaeochroma*

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

leprariae Zhurb.: on *Lepraria neglecta*

leptogii Etayo: on *Leptogium*

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

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

lobariae Zhurb. & Etayo: on *Lobaria*

marinum (Deakin) Swinscow: on maritime *Verrucaria*

Pharcidia maritima B. de Lesd.: on

Verrucaria

micareae van den Boom: on *Micarea alabastrites*

microcarpum Alstrup & J.C. David: on *Cetraria* and *Flavocetraria cucullata*

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

microsporum Etayo & Osorio: on *Teloschistes*

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

mycobilimbiae Cl. Roux, Triebel & Etayo: on *Bilimbia lobulata* and *B. sabuletorum*

neofusceliae Calat. & Triebel: on *Xanthoparmelia pulla*

parmotrematis F. Berger & E. Zimm.: on *Parmotrema*

Pharcidia parva Henssen: on *Ephebe lanata*

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

petri Hafellner: on *Clauzadea monticola*

placopsidis E. Zimm. & F. Berger: on *Placopsis*

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

porinae Matzer: on foliicolous *Porina*

pseudopeltideae Cl. Roux & Triebel: on *Peltigera*

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

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

ramalinae (Müll. Arg.) Etayo & Diederich: on *Ramalina*

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

rouxianum Calat. & Triebel: on *Acarospora cervina*

schaereri (A. Massal.) Trevis.: on *Solorina* thalli parasitized by *Dacampia hookeri*

schizoporum Matzer: on foliicolous *Porina*

seirophorae Etayo & van den Boom: on *Seirophora scorigena*

solorinarium (Vain.) D. Hawksw.: on *Solorina saccata*

spegazzinii Etayo: on *Leptogium* and *Pseudocyphellaria*

squamariae (B. de Lesd.) Cl. Roux & Triebel: on *Lecanora polytropa* and *Protoparmeliopsis*

squamarinicola Calat. & Triebel: on *Squamarina*

stereocaulorum Zhurb. & Triebel: on *Stereocaulon*

stygnospila (Minks) R. Sant.: on *Dermatocarpon*

subcladoniicola van den Boom: on *Cladonia*

superpositum (Nyl.) D. Hawksw.: on *Sporodictyon*

tabacinae (Arnold) Triebel: on *Toninia*

tetrasporum Etayo: on Verrucariaceae

trichotheliorum Matzer: on foliicolous *Trichothelium*

	triebeliae Etayo: on *Parmotrema* **Pharcidia verrucariarum** (Arnold) Sacc.: on *Verrucaria* **vezdae** Matzer: on foliicolous *Bacidina colchica* **xanthoparmeliarum** Hafellner: on *Xanthoparmelia*			
MYCOCALICIOMYCETIDAE				
Mycocaliciales				
Mycocaliciaceae				
Chaenothecopsis	**arthoniae** Tibell: on *Arthonia vinosa* **australis** Tibell: on *Lecanactis abietina* **brevipes** Tibell: on *Arthonia* and *Lecanactis* **cinerea** Tibell: on *Lecanactis abietina* **consociata** (Nádv.) A. F. W. Schmidt: on *Chaenotheca chrysocephala* **dibbleandersoniarum** Selva: on *Arthonia leucopellaea* **epithallina** Tibell: on *Chaenotheca trichialis* **formosa** Titov: on *Chaenotheca sphaerocephala* **hospitans** (Th. Fr.) Tibell: on *Haematomma ochroleucum* and *Lecanora* **kalbii** Tibell & K. Ryman: on *Lecanora caesiorubella* **lecanactidis** Tibell: on *Lecanactis abietina* **leifiana** Titov: on *Arthonia* **nigra** Tibell: on *Chaenotheca*	Clauzade et al. 1989 Gasparyan et al. 2014 Selva 2013 Tibell 1991b Tibell 1998 Tibell & Ryman 1995 Titov 2006	**viridireagens**: CBS (14 records); UPSC	**consociata** ITS+nrLSU: AY795851 **consociata** nrLSU: DQ008999 **epithallina** (Tibell 22793): ITS+nrLSU: AY795856 **epithallina** (Tibell 22705): ITS+nrLSU: AY795855 **epithallina** (Tibell 22716): nrLSU: AY795994 **pusiola** (Tibell 15884): ITS+nrLSU: AY795865 **pusiola** (Tibell 19258): nrLSU: AY795999 **savonica** (Tibell 15876): ITS+nrLSU: AY795868; nrLSU: AY796000 **savonica** nrSSU: U86691 **subparoica** ITS+nrLSU: AY795869 **viridireagens** (Tibell 22803): ITS: AY795872; nrLSU DQ013257

	ochroleuca (Körb.) Tibell & K. Ryman: on *Haematomma ochroleucum* **parasitaster** (Bagl. & Carestia) D. Hawksw.: on *Cladonia* **pilosa** Tibell & Kalb: on *Tylophoron moderatum* **pusiola** (Ach.) Vain.: on *Chaenotheca* or saprophytic **retinens** (Nyl.) Tibell: on *Schismatomma cretaceum* and *Arthonia byssacea* **rubescens** Vain.: on *Arthonia byssacea*, other lichens with *Trentepohlia* or saprophytic **rubina** Tibell: on *Pyrgidium montellicum* **sagenidii** Tibell: on *Sagenidium molle* **savonica** (Räsänen) Tibell: on *Chaenotheca* or saprophytic **sinensis** Titov: on unidentified lichen with chlorococcoid algae **subparoica** (Nyl.) Tibell: on *Haematomma ochroleucum* **tasmanica** Tibell: on diverse lichens, incl. *Chaenotheca chrysocephala* **treicheliana** (Stein) Kalb: on corticolous *Lecanora* **vainioana** (Nádv.) Tibell: on *Arthonia*, *Lecanactis abietina*, *Calicium salicinum*, other lichens with *Trentepohlia* or saprophytic **vinosa** Titov: on lichens **viridialba** (Kremp.) A. F. W. Schmidt: on *Chaenotheca chryscephala* or saprophytic **viridireagens** (Nádv.) A. F. W. Schmidt:			

	on *Calicium* or on free-living algae			
Mycocalicium	**rapax** Tibell: on *Pertusaria*	Titov 2006		
Sphinctrina	**anglica** Nyl.: on *Protoparmelia* **benmargana** Selva: on *Pertusaria* **leucopoda** Nyl.: on *Pertusaria* and *Diploschistes* **pallidella** (Willey) Selva: on *Pertusaria* **paramerae** D. Muñiz & Hladun: on *Pertusaria paramera* **tubaeformis** A. Massal.: on *Pertusaria* **turbinata** (Pers.) de Not.: on *Pertusaria*	Kalb 2001 Löfgren & Tibell 1979 Muñiz et al. 2013 Purvis et al. 1992 Titov 2006	**leucopoda**: CBS 114206; UPSC	**leucopoda** (Kalb 33829): ITS+LSU: AY795875; nrLSU: AY796006 **turbinata** (Tibell 23093): ITS+LSU: AY795877; nrLSU: DQ009001 **turbinata** (Tibell 22478): ITS+LSU: AY795876; nrLSU: AY796007 **turbinata** (AFTOL 1721): nrSSU: EF413631; nrLSU: EF413632; mtSSU: FJ713611; *RPB2*: EF413633 **turbinata**: nrSSU: U86693

Home

	Species (**lichenicolous fungi in bold**; *lichenicolous lichens or facultative lichenicolous fungi in italics*)	**Significant literature**	Cultures (with accession numbers when known; **culture collection links**)	Sequences (with accession numbers)
ASCOMYCOTA				
LECANOROMYCETES				
LECANOROMYCETIDEAE				
Candelariales				
Candelariaceae				
Candelariella	*superdistans* (Nyl.) Malme: lichenicolous lichen on *Lecanora populicola*	Gilbert & James 2009		
Lecanorales s.lat.				
Acarosporaceae				

Acarospora	*anatolica* H. Magn.: lichenicolous lichen on *Dimelaena* *brevilobata* H. Magn.: lichenicolous lichen on *Rhizocarpon* *epithallina* H. Magn.: lichenicolous lichen on *Acarospora* and *Caloplaca* *heufleriana* Körb.: lichenicolous lichen on *Lecanora valesiaca* *hospitans* H. Magn.: lichenicolous lichen on *Aspicilia*, *Bellemerea*, *Leanora*, *Lecidea* and *Tremolecia* *insignis* H. Magn.: lichenicolous lichen on *Aspicilia* *insolata* (B. de Lesd.) Redinger: lichenicolous lichen on *Immersaria* and *Rhizocarpon*, becoming independent *interjecta* H. Magn.: lichenicolous lichen on *Acarospora novomexicana* *invadens* H. Magn.: lichenicolous lichen on *Aspicilia* and *Dimelaena*, becoming independent *jenisejensis* H. Magn.: lichenicolous lichen on *Buellia*, *Dimelaena* and *Lecanora*, becoming independent *microcarpa* (Nyl.) Weddell: lichenicolous lichen on *Acarospora* and *Dimelaena*, becoming independent *nashii* K. Knudsen: lichenicolous lichen on *Dimelaena* and *Pleopsidium*, becoming independant *pulvinata* H. Magn.: lichenicolous lichen on *Aspicilia* *sphaerospora* H. Magn.: lichenicolous lichen on *Aspicilia*, becoming independent	Knudsen 2011 Knudsen & Kocourková 2010a Rambold & Triebel 1992		

	stapfiana (Müll. Arg.) Hue: lichenicolous lichen on *Caloplaca* and *Xanthoria elegans* *strigata* (Nyl.) Jatta: lichenicolous lichen on *Aspicilia*, becoming independent *succedens* H. Magn.: lichenicolous lichen on *Dimelaena oreina* *superans* H. Magn.: lichenicolous lichen on *Aspicilia* and *Dimelaena* *suprasedens* H. Magn.: lichenicolous lichen on *Aspicilia* and *Lecanora* *tominiana* H. Magn.: lichenicolous lichen on *Aspicilia* *umbrina* H. Magn.: lichenicolous lichen on *Lecanora*			
Myriospora	*hassei* (Herre) K. Knudsen & L. Arcadia: facultative lichenicolous lichen (obligate juvenile lichenicolous?) on *Acarospora socialis*	Knudsen & Bungartz 2014		
Polysporina	**arenacea** (H. Magn.) K. Knudsen & Kocourk.: on crustose lichens on siliceous rocks **pusilla** (Anzi) Kantvilas: on crustose lichens on calcareous rocks, e.g., *Acarospora*, *Caloplaca*, *Protoblastenia* **subfuscescens** (Nyl.) K. Knudsen & Kocourk.: on crustose lichens on siliceous rocks, e.g., *Acarospora*, *Buellia*, *Caloplaca*, *Candelariella*, *Lecidea*	Knudsen & Kocourková 2008		**subfuscescens** (CR26058): ITS: KM879334; mtSSU: KM879329 **subfuscescens** (CR26059): ITS: KM879333; mtSSU: KM879330
Sarcogyne	**sphaeospora** J. Steiner: lichenicolous lichen on *Candelariella*	Lendemer et al. 2009 Pino-Bodas et al. 2017		**sphaeospora** (M.P. Zhurbenko 1323): ITS: KY661635; nrLSU: KY661662; nrSSU: KY661700; mtSSU: KY661685
Caliciaceae				

Acolium	**marcianum** (B. de Lesd.) M. Prieto & Wedin: on *Pertusaria pseudocorallina* **sessile** (Pers.) Trevis.: on *Pertusaria coccodes* and other corticolous *Pertusaria*	Giavarini & Purvis 2009a Tibell 1971		
Buellia	**adjuncta** Th. Fr.: on *Lecanora straminea* (and *Rinodina olivaceobrunnea* ?) **badia** (Fr.) A. Massal.: lichen, juvenile parasite on saxicolous *Parmelia* s. lat. **caloplacivora** Llimona & Egea: lichenicolous lichen on *Caloplaca*, becoming independent *imshaugii* Hafellner: lichenicolous lichen on *Dimelaena oreina* *miriquidica* Scheidegger: lichenicolous lichen on *Schaereria fuscocinerea* *uberior* Anzi: lichenicolous lichen on *Schaereria fuscocinerea*, soon becoming independent **uruguayensis** Etayo & Osorio: on *Caloplaca felipponei* **vouauxii** Calatayud & Barreno: on *Rhizoplaca melanophthalma*	Calatayud & Barreno 1995 Clauzade et al. 1989 Etayo & Osorio 2004 Hafellner 1979 Rambold & Triebel 1992 Scheidegger 1987		
'Caliciella'	**parasitica** Räsänen: on *Chaenotheca furfuracea*	Clauzade et al. 1989 Kaufmann & Hofmann 1998		
Dimelaena	**lichenicola** K. Knuds., Sheard, Kocourk. & H. Mayrhofer: juvenile lichenicolous on *Dimelaena oreina* and *D. thysanota*	Knudsen et al. 2013		
Diplotomma	*Buellia lecanoricola* Renob., nom. nud.: on *Myriolecis albescens*, soon with its own thallus *murorum* (A. Massal.) Coppins: lichenicolous lichen on *Caloplaca teicholyta* *nivale* (Bagl. & Carestia) Hafellner: on	Bricaud & Roux 1991 Duke & Purvis 2009 Hafellner 1979 Renobales 1996 Roux 2014		

	Xanthoria elegans, *X. sorediata* and *Caloplaca*, soon with its own thallus **parasiticum** (B. de Lesd.) Diederich, Cl. Roux & Van Haluwyn: on *Myriolecis* gr. *dispersa* *scheideggerianum* (Bricaud & Cl. Roux) Nimis: lichenicolous lichen on *Caloplaca xantholyta* *vezdanum* (P. Scholz & Knoph) Coppins: lichenicolous lichen on *Caloplaca verruculifera*			
Endohyalina	**brandii** Giralt, van den Boom & Elix: on *Aspicilia intermutans*, often lichenized with an own thallus **diederichii** Giralt, van den Boom & Elix: on *Ramalina*, occasionally lichenized with a reduced thallus **insularis** (Arnold) Giralt, van den Boom & Elix: on *Lecanora rupicola* agg., very rarely lichenized with a reduced thallus	Giralt et al. 2010		
Rinodina	**egedeana** (Lindsay) Alstrup & D. Hawksw.: on *Parmelia* and *Peltigera* *obnascens* (Nyl.) H. Olivier: lichenicolous lichen on **Aspicilia and Rhizocarpon** *parasitica* Mayrhofer & Poelt: lichenicolous lichen on *Aspicilia*, *Lecanora* and *Lecidea* *santorinensis* J. Steiner: lichen, facultatively lichenicolous on *Diploicia*, *Ochrolechia*, *Pertusaria*, etc. *superposita* H. Magn.: lichenicolous lichen on *Lecanora* and *Lecidea*	Alstrup & Hawksworth 1990 Rambold & Triebel 1992		*insularis* (H. Mayrhofer 15430a): ITS: DQ849302 *obnascens* (B42477): ITS: AJ544185
Tetramelas	**concinnus** (Th. Fr.) Giralt: lichenicolous lichen on *Buellia*, *Melanelia*, *Parmelia*,	Hafellner & Poelt 1980 Nordin & Tibell 2005		**phaeophysciae** (Nordin 4922): ITS: DQ198359

	Physcia and *Pseudephebe*, becoming independent **phaeophysciae** A. Nordin & Tibell: on *Phaeophyscia* and *Physcia* **pulverulentus** (Anzi) A. Nordin & Tibell: mainly on *Physconia*, also on *Anaptychia*, *Phaeophyscia* and *Physcia*	Scheidegger & Ruef 1988		**phaeophysciae** (Nordin 5663): ITS: DQ201951 **pulverulentus** (Nordin 4427): ITS: DQ201953 **pulverulentus** (Nordin 4917): ITS: DQ201952
Catillariaceae				
Catillaria	**lobariicola** (Alstrup) Coppins & Aptroot: on *Lobaria scrobiculata* **mediterranea** Hafellner: lichenicolous lichen with a reduced thallus, on *Anaptychia ciliaris* and *Niebla bourgaeana* **usneicola** Etayo: on *Usnea*	Alstrup 1997 Etayo 2000 Hafellner 1982b		
Halecania	*lobulata* van den Boom & Elix: lichen, possibly lichenicolous over *Hymenelia* *parasitica* Aptroot & K. H. Moon: lichenicolous lichen over *Schaereria fuscocinerea*, becoming independant *santessonii* Andreev: lichenicolous lichen on *Porpidia albocaerulescens*	Andreev 2010 Aptroot & Moon 2015 van den Boom & Elix 2005		
Hymeneliaceae				
Aspicilia	*parasitica* B. de Lesd.: lichenicolous lichen on saxicolous, crustose lichens	Rambold & Triebel 1992		
Lecanoraceae				
Carbonea	**aggregantula** (Müll. Arg.) Diederich & Triebel: on *Lecanora* (mainly *L. polytropa*), also reported from *Rhizoplaca* **antarctica** (C. W. Dodge & G. E. Baker) D. Hawksw. & Iturr.: on *Pseudephebe* **assimilis** (Körb.) Hafellner & Hertel: lichenicolous lichen on *Aspicilia*,	Alstrup et al. 1994 Chambers et al. 2009 Ertz et al. 2014a Etayo & Sancho 2008 Hafellner 1999 Hafellner 2006 Hawksworth & Iturriaga 2006 Hertel 1967 Obermayer 1993		**supersparsa**: nrSSU: AY567773 **vitellinaria**: ITS and nrLSU: AY541239

	Lecanora, *Lecidea*, *Pertusaria*, *Rhizocarpon* and *Tephromela* **atronivea** (Arnold) Hertel: lichenicolous lichen on *Lecidella*, becoming independent **degelii** Alstrup: on *Lecanora intricata* **distans** (Kremp.) Hafellner & Obermayer: lichenicolous lichen on *Orphniospora mosigii* **distans** var. **buelliarum** (Hertel) Hertel: lichenicolous lichen on *Buellia* **herteliana** Hafellner & Matzer: on *Rhizocarpon* **Catillaria hospitans** H. Magn.: on *Lecidea* **intrudens** (H. Magn.) Hafellner: on *Rhizocarpon* **invadens** (H. Magn.) Andreev: lichen, juvenile lichenicolous on *Rhizocarpon geographicum* **minor** Triebel & Rambold ined.: on *Lecanora 'subfusca'* and *L. vainioi* **neuropogonis** Etayo: on *Usnea aurantiaco-atra* **superjecta** (Nyl.) Hertel: on *Lecanora disjungenda* **supersparsa** (Nyl.) Hertel: on *Lecanora* (mainly *L. polytropa*) **supersparsa** var. **bicolor** R. Sant. & Triebel ined.: on *Lecanora intricata* **vitellinaria** (Nyl.) Hertel: on *Candelariella* **vorticosa** (Flörke) Hertel: facultative lichenicolous on *Physcia dubia*	Rambold &Triebel 1992		
Lecanora	*epithallina* H. Magn.: lichenicolous lichen on *Vestergrenopsis isidiata*	Etayo & Sancho 2006 Lumbsch et al. 2011		

	gisleriana Müll. Arg.: lichenicolous lichen on *Lecanora epanora*, *L. handelii* and *L. subaurea* *gyrophorina* Poelt & Zhurbenko: lichenicolous lichen on *Umbilicaria hyperborea* *invadens* H. Magn.: lichenicolous lichen on *Aspicilia asiatica* **lasalliae** Pérez-Ortega & Etayo: on *Lasallia pustulata* *latro* Poelt: lichenicolous lichen on *Miriquidica nigroleprosa* **lecanoricola** (Alstrup, D. Hawksw. & R. Sant.) Rambold & Triebel: on *Lecanora cenisia* *mosigiicola* (Eitner) Hertel & Rambold: lichenicolous lichen on *Orphniospora mosigii* *mosigiicola* var. *buelliarum* (Hertel) Hertel & Rambold: lichenicolous lichen on *Buellia* *printzenii* Pérez-Ortega, Vivas & Hafellner: lichenicolous lichen on *Umbilicaria* *tolypodes* Poelt & Vězda: lichenicolous lichen on *Aspicilia* cf. *grisea* **usneicola** Etayo: on *Usnea antarctica*	Pérez-Ortega & Etayo 2008 Poelt et al. 1996 Rambold & Triebel 1992		
Lecidella	*dimelaenophila* Hertel: lichen, juvenile lichenicolous on *Dimelaena oreina* *vorax* Leuckert & Poelt: lichenicolous lichen on *Lecanora rupicola*	Rambold & Triebel 1992		
Miriquidica	**invadens** Hafellner, Obermayer & Tretiach: lichenicolous lichen on *Sporastatia*, becoming independant **intrudens** (H. Magn.) Hertel & Rambold:	Hafellner et al. 2014 Rambold & Triebel 1992		

	lichenicolous lichen on *Rhizocarpon*			
Ramboldia	*insidiosa* (Th. Fr.) Hafellner: lichenicolous lichen on *Lecanora varia*	Hafellner & Türk 1995		*insidiosa* (J. Hafellner 58556; AFTOL 1756): nrLSU: KJ766650; nrSSU: KJ766786
Lecideaceae				
Bellemerea	*cupreoatra* (Nyl.) Clauz. & Cl. Roux: lichenicolous lichen on *Buellia*, becoming independent	Rambold & Triebel 1992		
Cecidonia	**umbonella** (Nyl.) Triebel & Rambold: on *Lecidea* **xenophana** (Körb.) Triebel & Rambold: on *Porpidia*	Triebel & Rambold 1988		**umbonella**: nrLSU: AY532990; beta-tubulin: AY536768 **xenophana**: nrLSU: AY532991; beta-tubulin: AY536769
Immersaria	*athroocarpa* (Ach.) Rambold & Pietschmann: lichen, facultative juvenile lichenicolous on *Aspicila* and other lichens **usbekica** (Hertel) Barbero, Nav.-Ros. & Roux: lichen, facultative juvenile lichenicolous on *Aspicila* and other lichens	Rambold & Triebel 1992		**usbekica** (Immusb94; C. Roux 1.09.2000-5): beta-tubulin: AY536777 **usbekica** (C. Roux 1.09.2000-5): nrLSU: AY532985
Lecidea s. lat.	**acervata** Stiz.: on *Pseudoparmelia* [a poorly known taxon] **cetrariicola** Lindsay: on *Cetraria* **grumannii** Hertel: lichenicolous lichen on *Acarospora* **halacsyi** J. Steiner: on *Rhizocarpon geographicum* **perforans** Stiz.: on *Parmotrema* [a poorly known taxon] *rapax* Hertel: lichenicolous lichen on *Aspicilia* and *Bellemerea* *verruca* Poelt: lichenicolous lichen on *Aspicilia*	Hafellner 2006 Rambold & Triebel 1992		

Poeltiaria	*coromandelica* (Zahlbr.) Rambold & Hertel: lichen, juvenile lichenicolous on *Parapordia leptocarpa*	Rambold & Triebel 1992		
Mycoblastaceae				
Tephromela	**campestricola** (Nyl.) Rambold & Triebel: on *Lecanora pseudistera* and L. sp. **cerasina** (Müll. Arg.) Rambold & Triebel: on *Dirinaria* **koliensis** (Räs.) Rambold & Triebel: on *Lecanora argopholis*	Rambold 1993		
Parmeliaceae				
Nesolechia [synonymized with *Punctelia* by Divakar et al. 2017]	**fusca** (Triebel & Rambold) Pérez-Ortega: on *Xanthoparmelia* and other parmelioid genera (*Cavernularia*, *Hypogymnia*, *Parmelinopsis*, *Parmotrema*, *Pseudevernia*) **oxyspora** (Tul.) A. Massal. [incl. *Phacopsis menegazziae* Triebel & Rambold]: on *Everniastrum*, *Hypotrachyna*, *Melanohalea*, *Menegazzia*, *Parmelia*, *Platismatia* and *Punctelia* **rufa** Müll. Arg.: on *Cetrelia* and *Punctelia* **thallicola** (A. Massal.) A. Massal.: on *Cetrelia*, *Flavoparmelia*, *Flavopunctelia* and *Parmotrema*	Divakar et al. 2015 Spribille 2010 Triebel & Rambold 1988 Triebel et al. 1995		**oxyspora** (D169): ITS: AF450287 **oxyspora** (D20): ITS: AF450284 **oxyspora** (PhCop1): nrSSU: AF450290 **oxyspora** (Wedin 7890): ITS: GU994568; nrLSU: GU994613; *RPB1*: GU994712; mtSSU: GU994659 **oxyspora** (Froberg 10/8/03): nrSSU: DQ923642; nrLSU: DQ923669 **oxyspora** (Frieberg 10/8/03): ITS: DQ980020 **oxyspora** (Ertz 16840): ITS: KR995295; nrLSU: KR995417; *RPB1*: KR995492; *DNA replication licensing factor*: KR995627

Phacopsis	**australis** Aptroot & Triebel: on *Xanthoparmelia* **cephalodioides** (Nyl.) Triebel & Rambold: on *Hypogymnia physodes* **doerfeltii** Alstrup & P. Scholz: on *Arctoparmelia centrifuga* **falcispora** Triebel & Rambold: on *Usnea* **lethariellae** Hafellner & Rambold: on *Lethariella intricata* **oroarcticae** Zhurb.: on *Brodoa oroarctica* **prolificans** (Müll. Arg.) Triebel & Rambold: on *Platismatia interrupta* **usneae** C. W. Dodge: on *Usnea* subgen. *Neuropogon* **vulpina** Tul.: on *Letharia*	Divakar et al. 2015 Etayo & Sancho 2006 Hafellner 1987a Scholtz 1998 Triebel & Rambold 1988 Triebel et al. 1995 Zhurbenko 2010b		**vulpina** (D132): ITS: AF450285
Protoparmelia	*atriseda* (Fr.) R. Sant. & V. Wirth: lichen, juvenile lichenicolous on *Rhizocarpon* *cupreobadia* (Nyl.) Poelt: lichen, juvenile lichenicolous on *Rhizocarpon* *leproloma* (R. Sant.) Rambold & Poelt: lichenicolous lichen on *Lecidea praenubila* *loricata* Poelt & Vězda: lichenicolous lichen on *Lecanora umbrosa* *phaeonesos* Poelt: lichenicolous lichen on *Aspicilia myrinii* *placentiformis* (J. Steiner) Poelt: lichen, juvenile lichenicolous on *Bellemerea cupreoatra*	Rambold & Triebel 1992		*atriseda* (H. Ponzetti 26046): ITS: KF562190; nrLSU: KF562182 *RPB1*: KF601236; *MCM7*: KF562173 *cupreobadia* (Fryday 863): ITS: KF562192; nrLSU: KF562184; *RPB1*: KF601238; *MCM7*: KF562175 *phaeonesos* (E. Timdal 11000): ITS: KF562193; nrLSU: KF562185; *RPB1*: KF601239; *MCM7*: KF562176
Raesenenia [synonymized with *Protousnea* by Divakar et al. 2017]	**huuskonenii** (Räsänen) D. Hawksw., Boluda & H. Lindgr.: on *Bryoria*	Divakar et al. 2015 Lindgren et al. 2015 Triebel & Rambold 1988		**huuskonenii** (Phhuu): ITS: AF450283 **huuskonenii** (D41): nrSSU: AF450289 **huuskonenii** (Myllys 030811-

				37): ITS: KR995304; nrLSU: KR995424; DNA replication licensing factor-like: KR995659 **huuskonenii** (Myllys 040811-51): ITS: KR995305; nrLSU: KR995425; DNA replication licensing factor-like: KR995660 **huuskonenii** (Myllys 040811-53): ITS: KR995306; nrLSU: KR995426; DNA replication licensing factor-like: KR995661
Pilocarpaceae				
Epicladonia s. lat.	**simplex** D. Hawksw.: on *Cladonia* **stenospora** (Harmand) D. Hawksw.: on *Cladonia*	Hawksworth 1981 Pino-Bodas et al. 2017		**simplex** (M.P. Zhurbenko 1050): ITS: KY661647 **simplex** (M.P. Zhurbenko 0563b): ITS: KY661649 **simplex** (S.S. Kholod s.n.): ITS: KY661648 **stenospora** (R. Pino-Bodas s.n.): ntLSU: KY661663; nrSSU: KY661703 **stenospora** (M. Kocakoya 485a): nrSSU: KY661704 **stenospora** (F. Högnabba 220911-15b): ITS: KY661640; ntLSU: KY661668 **stenospora** (P.v.d. Boom47938a): ITS: KY661616; ntLSU: KY661651; mtSSU: KY661673 **stenospora** (S. & S. Talbot ADA 702a): ITS: KY661623; ntLSU: KY661654 **stenospora** (M. Kocakaya 719b):

				ITS: KY661624; ntLSU: KY661655; nrSSU: KY661697
Fellhanera	*stictae* Etayo: lichenicolous lichen on *Sticta*			
Micarea	**inquinans** (Tul.) Coppins: on *Dibaeis baeomyces* **kemmleri** Brackel: on *Cladonia* **stereocaulorum** Etayo & van den Boom: on *Stereocaulon* **usneae** van den Boom & Ertz: on *Usnea*	Brackel 2016 Coppins 2009 Etayo 2017 van den Boom & Ertz 2014		**usneae** (P. & B. van den Boom 48057): mtSSU: KF569511
Scutula [incl. *Karsteniomyces* and *Libertiella* anamorphs]	**cladoniicola** Alstrup & D. Hawksw.: on *Cladonia trassii* **Libertiella curvispora** D. Hawksw. & Miadl.: on *Peltigera* **dedicata** Triebel, Wedin & Rambold: lichenicolous lichen on *Peltigera* **Libertiella didymospora** D. Hawksw. & Miadl.: on *Peltigera* **epiblastematica** (Wallr.) Rehm: on *Peltigera* **heerii** (Hepp) Trevis.: lichenicolous lichen on *Peltigera* **Libertiella fennica** Alstrup: on *Peltigera* **Libertiella leprariae** Etayo & Diederich: on *Lepraria* **Karsteniomyces llimonae** Boqueras & Diederich: on *Parmelina quercina* **miliaris** (Wallr.) Trevis.: on *Peltigera* [anamorph: *Karsteniomyces peltigerae* (P. Karst.) D. Hawksw.] **Libertiella malmedyensis** Speg. & Roum.: on *Peltigera* **nephromatis** (Speg.) Etayo: on *Nephroma antarcticum*	Alstrup 1997 Alstrup & Hawksworth 1990 Boqueras & Diederich 1993 Etayo & Diederich 1995 Etayo & Sancho 2008 Etayo & Triebel 2010 Hawksworth 1980b Hawksworth 1981 Hawksworth & Miadlikowska 1997a Pino-Bodas et al. 2017 Triebel et al. 1997 Wedin et al. 2007		**epiblastematica** (S.E. Vershinina s.n.): ITS: KY661633; mtSSU: KY661688 **tuberculosa** [=*krempelhuberi*]: mtSSU: AY567789 **miliaris**: mtSSU: AY567790

	Libertiella obscurior Gerber: on *Brodoa intestiniformis* **pseudocyphellariae** Etayo & Triebel: on *Pseudocyphellaria* **stereocaulorum** (Anzi) Körber: on *Stereocaulon* **tuberculosa** (Th. Fr.) Rehm: on *Solorina* **Karsteniomyces tuberculosus** Alstrup & D. Hawksw.: on *Peltigera leucophlebia*			
Psoraceae				
Glyphopeltis	*ligustica* (B. de Lesd.) Timdal: lichen, juvenile parasite on *Peltula*	Ott & Scheidegger 1992 Rambold & Triebel 1992		
Psorula	*rufonigra* (Tuck.) G. Schneider: lichenicolous lichen on *Spilonema*	Rambold & Triebel 1992		
Ramalinaceae				
Bacidia	**killiasii** (Hepp) D. Hawksw.: on *Peltigera*	Rambold & Triebel 1992		
Toninia	**collematicola** Timdal: on *Collema* **episema** (Nyl.) Timdal: on *Aspicilia* **leptogii** Timdal: on *Collema* and *Leptogium* *nordlandica* Th. Fr.: lichenicolous lichen on *Placynthium* and other lichens with cyanobacteria **plumbina** (Anzi) Hafellner & Timdal: on *Degelia* **poeltiana** S. Y. Kondr., L. Lőkös & J.-S. Hur: on *Verrucaria fuscella* **subfuscae** (Arnold) Timdal: on *Lecanora*, rarely on *Lecidella* **talparum** Timdal: on *Lecania* **ualae** Etayo: lichenicolous lichen on *Pseudocyphellaria* and *Nephroma antarcticum*	Etayo & Sancho 2008 Kondratyuk et al. 2016b Rambold & Triebel 1992 Timdal 1992		**plumbina**: ITS: AF282107 *verrucarioides*: ITS: AF282128

	verrucariae (Nyl.) Timdal: on *Baglietoa* and *Encephalographa elisae* *verrucarioides* (Nyl.) Timdal: lichenicolous lichen on *Placynthium*			
Rhizocarpaceae				
Epilichen	*glaucinigellus* (Nyl.) Hafellner: lichenicolous lichen on *Baeomyces* *scabrosus* (Ach.) Clements: lichenicolous lichen on *Baeomyces* **stellatus** Triebel: on *Lecidea* cf. *tessellata*	Hafellner 1978 Triebel 1989		
Rhizocarpon	**advenulum** (Leight.) Hafellner & Poelt: on *Pertusaria flavicans* and *P. rupicola* *asiaticum* (Poelt) Poelt: lichenicolous lichen on *Sporastatia* **bryonthae** Poelt: on *Pertusaria bryontha* *captans* Poelt: lichenicolous lichen on *Aspicilia* *destructans* Alstrup: lichenicolous lichen on *Lecanora polytropa* **dinothetes** Hertel & Leuckert: lichenicolous lichen on *Protoparmelia* *diploschistidina* McCune: lichenicolous lichen on *Diploschistes muscorum* *epispilum* (Nyl.) Zahlbr, s.lat.: on saxicolous *Pertusaria* *fratricida* Poelt & Nimis: lichenicolous lichen on *Rhizocarpon* *fuegianum* Poelt, nom. nud.: lichenicolous lichen on *Rhizocarpon geographicum* *furax* Poelt & V. Wirth: lichenicolous lichen on *Lecidea* *inimicum* Poelt & Vězda: lichenicolous lichen on *Lecanora rupicola* s.lat.	Etayo 2017 Lumbsch et al. 2011 Rambold & Triebel 1992		

	kakurgon Poelt: lichenicolous lichen on *Aspicilia* *kansuense* H. Magn.: lichenicolous lichen on *Aspicilia* *lusitanicum* (Nyl.) Arnold: lichenicolous lichen on saxicolous *Lepra* **malenconianum** (Llimona & Werner) Hafellner & Mayrhofer: on *Diploschistes* **narssaqense** Alstrup: on *Lecanora atromarginata* **ochrolechiae** (Poelt & Nimis) Hafellner: on *Ochrolechia parella* *pusillum* Runem.: lichenicolous lichen on *Sporastatia* *rapax* V. Wirth & Poelt: on *Acarospora*, *Aspicilia* and *Rimularia* *renneri* Poelt: on *Dimelaena oreina* *santessonii* Timdal: on *Tremolecia atrata* *schedomyces* Hafellner & Poelt: on *saxicolous Pertusaria* **tungurahuae** Etayo & Palice: on *Gyalidea* *viridiatrum* (Wulf.) Koerb.: lichen, juvenile often lichenicolous on *Aspicilia*, *Lecidea*, *Tremolecia* *vorax* Poelt & Hafellner: on *Ochrolechia parella* and *Pertusaria*			
Teloschistaceae				
Caloplaca s. lat.	*anchonphoeniceon* Poelt & Clauz.: lichenicolous lichen on *Aspicilia* *epithallina* Lynge: lichenicolous lichen on *Acarospora*, *Aspicila*, *Dimelaena*, *Lecanora*, *Melanelia*, *Pleopsidium*, *Psorinia*, *Rhizocarpon*, *Rhizoplaca*,	Breuss 1990 Fryday & Øvstedal 2012 Nimis et al. 1994 Olech & Søchting 1993 Rambold & Triebel 1992 Seavey & Seavey 2012 Wetmore 1999		

	Stereocaulon, *Tephromela*, *Umbilicaria* *epitoninia* O. Breuss: lichenicolous lichen on *Toninia aromatica* *grimmiae* (Nyl.) H. Olivier: lichenicolous lichen on *Candelariella* *inconnexa* (Nyl.) Zahlbr.: lichen, juvenile lichenicolous on *Acarospora*, *Aspicilia*, *Caloplaca* *inconnexa* var. *nesodes* Poelt & Nimis: lichenicolous lichen on *Aspicilia* *infestans* H. Magn.: lichenicolous lichen on *Aspicilia*, *Caloplaca*, *Lecanora* *insularis* Poelt: lichenicolous lichen on *Aspicilia* *interna* Poelt & Nimis: lichenicolous lichen on *Aspicilia* *lecanorae* F. C. Seavey & J. L. Seavey: lichenicolous lichen on *Lecanora leprosa* *magni-filii* Poelt: lichenicolous lichen on *Miriquidica nigroleprosa* *megalariicola* Øvstedal: lichenicolous lichen on *Megalaria grossa* *necator* Clauz. & Poelt: lichenicolous lichen on *Aspicilia* *psoricida* Hansen, Poelt & Søchting: lichenicolous lichen on *Psora rubiformis* *rinodinae-albae* Poelt & Nimis: lichenicolous lichen on *Rinodina alba*			
Catenarina	*desolata* Søchting, Søgaard & Elvebakk: lichenicolous lichen on *Aspicilia*	Søchting et al. 2014		*desolata* (USE4077): mtSSU: KF657319 *desolata* (USE917): ITS: KF657317 *desolata* (USE982): ITS: KF657316

				desolata (USE356): ITS: KF657314 *desolata* (USE357): ITS: KF657313 *desolata* (2310 C): ITS: KF657315
Flavoplaca	*polycarpa* (A. Massal.) Arup, Frödén & Søchting: lichenicolous lichen on *Baglietto*a	Arup et al. 2013		
Fulgensia	**epiplacynthium** Etayo: lichenicolous lichen on *Placynthium filiforme*	Etayo 2010c		
Pachypeltis	*invadens* (Lynge) Søchting, Frödén & Arup: lichenicolous lichen on *Lecanora*, *Physcia caesia*	Arup et al. 2013		*invadens* (Elvebakk 03-109): ITS: KC179108
Lecanorales incertae sedis				
Corticiruptor	**abeloneae** (P. M. Jørg.) Wedin & Hafellner: on *Sticta* **corallinus** Etayo: on *Pseudocyphellaria*	Etayo & Sancho 2008 Wedin & Hafellner 1998		
Lichenosticta	**alcicorniaria** (Lindsay) D. Hawksw.: on *Cladonia* **dombrovskae** Zhurb.: on *Stereocaulon* **hoegnabbae** Zhurb. & Pino-Bodas: on *Cladia* **jurgae** Kukwa & Flakus: on *Lecanora* **lecanorae** (Vouaux) Brackel & Zhurb.: on *Lecanora*	Flakus & Kukwa 2012 Hawksworth 1981 Pino-Bodas et al. 2017 Zhurbenko 2010a Zhurbenko & Pino-Bodas 2015 Zhurbenko et al. 2015a		**alcicorniaria** (J. Miadlikowska et al. s.n.): ITS: KY661625 **alcicorniaria** (R. Pino-Bodas s.n.): ITS: KY661621; nrSSU: KY661696; mtSSU: KY661676 **alcicorniaria** (U. Schiefelbein s.n.): ITS: KY661638; nrLSU: KY661665
Nimisiostella	**lichenicola** Calat., Barreno & O. E. Erikss.: on *Parmelia saxatilis*	Calatayud et al. 1997		
Scoliciosporum	**pseudocyphellariae** Etayo: lichenicolous lichen on *Pseudocyphellaria* *intrusum* (Th. Fr.) Hafellner: lichen, frequently lichenicolous on *Rhizocarpon*, *Lecidea* or other saxciolous lichens	Etayo & Sancho 2008 Hafellner 2002 Hafellner 2004b		*intrusum* (Ekman s.n.): nrLSU: AY756329; mtSSU: AY567767; *RPB1:* AY756391

	vouauxii (B. de Lesd.) Hafellner: lichenicolous lichen on *Ramalina*			
Umbilithecium	**pseudocyphellariae** Etayo: on *Pseudocyphellaria*	Etayo & Sancho 2008		
Umushamyces	**kuturnum** Etayo: on *Coccotrema cucurbitula*	Etayo & Sancho 2008		
OSTROPOMYCETIDAE				
Agyriales				
Agyriaceae				
Hafellnera	*parasemella* (Nyl.) Houmeau & Cl. Roux: lichenicolous lichen on *Biatora vernalis*	Houmeau & Roux 1984 Rambold & Triebel 1992		
Lambiella	*furvella* (Mudd) M. Westb. & Resl: lichenicolous lichen on various lichens *insularis* (Nyl.) T. Sprib.: lichenicolous lichen on *Leanora rupicola*	Rambold & Triebel 1992		
Ostropales				
Graphidaceae				
Corticifraga	**chugachiana** Zhurb.: on *Lobaria oregana* **fuckelii** (Rehm) D. Hawksw. & R. Sant.: on *Peltigera* **fusispora** Zhurb.: on *Peltigera aphthosa* and *P. leucophlebia* **peltigerae** (Fuckel) D. Hawksw. & R. Sant.: on *Peltigera*, exceptionally on *Solorina* and *Pseudocyphellaria* **pseudocyphellariae** Etayo: on *Pseudocyphellaria* **santessonii** Zhurb. & Zavarzin: on *Lobaria* and *Nephroma*	Etayo & Sancho 2008 Hawksworth & Santesson 1990 Pino-Bodas et al. 2017 Zhurbenko 2007c Zhurbenko 2009b		**peltigerae** (M.P. Zhurbenko 1353): ITS: KY661634; nrLSU: KY661661; mtSSU: KY661684
Gyalideopsis	**cochlearifer** Lücking & Sérus.: on foliicolous Gomphillaceae **epithallina** R. Lücking: on foliicolous	Etayo 2010b Lücking 1997 Lücking & Sérusiaux 1998		

	Gyalideopsis vulgaris **parvula** Kalb & Vězda: on foliicolous Pilocarpaceae **usneicola** Etayo: on *Usnea*			
Paragyalideopsis	**breussii** Etayo: on *Hypotrachyna* **floridae** (Etayo & Diederich) Etayo: on *Parmotrema* **minuta** Etayo: on *Trypethelium* **stereocaulicola** (Etayo) Etayo: on *Stereocaulon*	Etayo 2017 Etayo & Diederich 2001		
Stictidaceae				
Cryptodiscus [= *Lettauia*]	**cladoniicola** (D. Hawksw. & R. Sant.) Pino-Bodas, Zhurb. & S. Stenroos: on *Cladonia* [= *Lettauia cladoniicola* D. Hawksw. & R. Sant.] **epicladonia** Zhurb. & Pino-Bodas: on *Cladonia* **galaninae** Zhurb. & Pino-Bodas: on **Cladonia**	Hawksworth & Santesson 1990 Pino-Bodas et al. 2017		**cladoniicola** (J. Kocourková s.n.): ITS: KY661619; nrLSU: KY661652; nrSSU: KY661694; mtSSU: KY661674 **cladoniicola** (J. Kocourková et al. s.n.): ITS: KY661620; nrLSU: KY661653; nrSSU: KY661695; mtSSU: KY661675 **epicladonia** (T. Ahti 70348a & S. Talbot): ITS: KY661628; mtSSU: KY661680 **galaninae** (T. Ahti 74421a & S. Clayden): ITS: KY661636; nrSSU: KY661701
Lettauia s. lat.	**hypotrachynae** Etayo: on **Hypotrachyna** **santessonii** Ihlen & Tønsberg: on *Loxospora pustulata* **usneae** Etayo: on *Usnea*	Etayo 2002 Etayo 2017 Ihlen & Tønsberg 1996		
Nanostictis	**caucasica** Zhurb.: on *Parmelia sulcata* **christiansenii** Etayo: on *Lobaria*	Etayo 2002a Etayo 2017		

	pulmonaria **confusa** Etayo: on *Everniastrum* and *Hypotrachyna* **heterodermiae** Etayo: on *Heterodermia* **nephromatis** Etayo: on *Nephroma antarcticum* **peltigerae** M.S. Christ.: on *Peltigera* **pluriseptata** Etayo: on *Lobaria* gr. *pallida* **pseudocyphellariae** Sherwood: on *Pseudocyphellaria* **stictae** Etayo: on *Sticta*	Etayo & Diederich 1996b Etayo & Sancho 2008 Zhurbenko 2017		
Sphaeropezia	**bryoriae** (Diederich & Etayo) Baloch & Wedin: on *Bryoria* **cucularis** (Norman) Baloch & Wedin: on *Parmeliopsis* **figulina** (Norman) Baloch & Wedin: on *Lecanora polytropa* **intermedia** (Diederich, Zhurb. & Etayo) Baloch & Wedin: on *Thamnolia vermicularis* **japewiae** (Zhurb. & Diederich) Baloch & Wedin: on *Japewia tornoënsis* **lecanorae** (Diederich & Marson) Baloch & Wedin: on *Lecanora* **melaneliae** (Diederich & Zhurb.) Baloch, Gilenstam & Wedin: on *Melanelia hepatizon* and *Melanohalea olivacea* **mycoblasti** Diederich, Baloch & Wedin:on *Mycoblastus* **navarinoi** (Etayo) Baloch & Wedin: on *Micarea magellanica* **ochrolechiae** (Diederich, Holien & Zhurb.) Baloch & Wedin: on *Ochrolechia*	Baloch et al. 2013 Diederich et al. 2002b Etayo & Sancho 2008 Zhurbenko 2009b Zhurbenko 2010a		**mycoblasti** (EB-2012b; HOLOTYPE): nrLSU: JX266159; mtSSU: JX266157; *RPB2*: JX266161 **ochrolechiae** (EB-2012c): nrLSU: JX266160

	pertusariae (Etayo, Diederich & Coppins) Baloch & Wedin: on *Pertusaria hymenea* **rhizocarpicola** (Zhurb., Diederich & Himelbrant) Baloch & Wedin: on *Rhizocarpon* gr. *geographicum* **santessonii** (Zhurb., Etayo & Diederich) Baloch & Wedin: on *Thamnolia vermicularis* **sipei** (Grummann) Baloch & Wedin: on *Letharia* **Odontotrema stereocaulicola** Zhurb.: on *Stereocaulon* **thamnoliae** (Zhurb., Diederich & Etayo) Baloch & Wedin: on *Thamnolia* **sp. 2**: on *Usnea* **sp. 3**: on *Lecanora*			
Stictis s. lat.	**cladoniae** (Rehm) Sacc.: on *Cladonia*	Pino-Bodas et al. 2017 Sherwood 1977		
Thelotremataceae				
Diploschistes	**bisporus** (Bagl.) Steiner: lichen, facultative lichenicolous on *Rhizocarpon geographicum* s. lat. **caesioplumbeus** (Nyl.) Vainio: lichen, facultative lichenicolous on *Lecanora gangaleoides* **euganeus** (A. Massal.) J. Steiner: lichen, facultative lichenicolous on *Ochrolechia parella* **muscorum** (Scop.) R. Sant.: lichenicolous on *Cladonia* (rarely *Stereocaulon*) when young, later an independent lichen	Lumbsch 1989		*caesioplumbeus* (SFB 30): ITS: KC166974; mtSSU: KC167027 *caesioplumbeus* (SFB 28): ITS: KC166973; mtSSU: KC167026 *caesioplumbeus* (SFB 40): ITS: KC166975 *caesioplumbeus* (BCNLich 17182): nrLSU: HQ659181; mtSSU: HQ659170 *euganeus* (SFB 29): ITS: KC166986; mtSSU: KC167038 *euganeus* (DNA6796): ITS: KF688485; nrLSU: KF688494; *RPB2*: KF688544; *RPB1*:

				KF688528; mtSSU: KF688508 *euganeus* (DNA6795): nrLSU: KF688493; *RPB2*: KF688543; *RPB1*: KF688527; mtSSU: KF688507 **muscorum** (SFB 3): ITS: KC167004; nrLSU: KC167077; mtSSU: KC167055 **muscorum** (SFB 140): ITS: KC167008; mtSSU: KC167059 **muscorum** (SFB 125): ITS: KC167007; mtSSU: KC167058 **muscorum** (SFB 79): ITS: KC167006; mtSSU: KC167057 **muscorum** (SFB 45): ITS: KC167005; mtSSU: KC167056 **muscorum** (M. Arnot L658): *RPB2*: AY485623 **muscorum** (MUSDIP-1): ITS: AF228319 **muscorum** (MUSDIP-3): ITS: AF229193 **muscorum** (Palice 2805): nrLSU: AY300836; mtSSU: AY300886 **muscorum** subsp. bartlettii: (Kalb 2002): mtSSU: DQ384868 **muscorum** (DNA6797): nrLSU: KF688495; *RPB2*: KF688545; *RPB1*: KF688529; mtSSU: KF688509
Ostropales incertae sedis				
Aabaarnia	**siphulicola** Diederich: on *Siphula decumbens*	Diederich 2014		

Biazrovia	**stereocaulicola** Zhurb. & Etayo: on *Stereocaulon*	Zhurbenko & Etayo 2013		
Normanogalla	**cribriformis** (Norman) Diederich: on *Lepra dactylina* and *Pertusaria oculata*	Alstrup & Hawksworth 1990 Diederich 2014		
Paralethariicola	**aspiciliae** Calat., Etayo & Diederich: on *Aspicilia*	Calatayud et al. 2001a		
Spirographa	**fusisporella** (Nyl.) Zahlbr.: on diverse lichens **longispora** Etayo: on *Sticta* **usneae** Flakus, Kukwa & Etayo: on *Usnea*	Diederich 2004 Etayo 2017 Flakus & Kukwa 2012 Sherwood-Pike 1987		
Ostropomycetidae incertae sedis				
Epigloeaceae				
Epigloea	**urosperma** Döbbeler: on *Placynthiella*	Döbbeler 1994		
Genera incertae sedis				
Bachmanniomyces	**uncialicola** (Zopf) D. Hawksw.: on *Cladonia*	Hawksworth 1981 Pino-Bodas et al. 2017		**uncialicola** (R. Pino-Bodas s.n.): ITS: KY661637; nrSSU: KY661702 **uncialicola** (S. & S. Talbot CHI017-56): ITS: KY661617
Phaeopyxis	**australis** Rambold & Triebel: on *Paraporpidia* **muscigenae** Alstrup & E. S. Hansen: on *Physconia* **punctum** (A. Massal.) Rambold, Triebel & Coppins: on *Cladonia* **varia** Coppins, Rambold & Triebel: on *Trapeliopsis*	Alstrup & Hansen 2001 Rambold & Triebel 1990 Suija et al. 2015		**punctum** (TU68298): ITS: KJ559545; nrLSU: KJ559568; nrSSU: KJ559588 **punctum** (Diederich 17303): ITS: KJ559551; nrSSU: KJ559591 **punctum** (TU65586): ITS: KJ559544; nrLSU: KJ559567; nrSSU: KJ559587 **punctum** (S. Stenroos 6040a): ITS: KY661639 **punctum** (V. Haikonen 29409): ITS: KY661641; nrLSU: KY661669

				punctum (A. Launis 2212): ITS: KY661642 **punctum** (A. Launis 2217): ITS: KY661643; nrLSU: KY661670 **punctum** (A. Launis 2213): ITS: KY661644; nrLSU: KY661671 **punctum** (R. Pino-Boda s.n.): ITS: KY661645; nrSSU: KY661705
Lecanoromycetes incertae sedis				
Piccolia	*nannaria* (Tuck.) Lendemer & Beeching: lichen, at least facultative lichenicolous on *Pyrrhospora varians*	Lendemer & Harris 2014		

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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				
LEOTIOMYCETES				
Helotiales				
Cordieritidaceae				
Diplolaeviopsis	**japonica** Zhurb. & Diederich: on *Gyalolechia flavorubescens* **ranula** Giralt & D. Hawksw.: on *Lecanora strobilina* and *L. strobilinoides* **symmictae** Diederich & Coppins: on *Lecanora symmicta*	Diederich & Coppins 2014 Etayo et al. 2015 Giralt & Hawksworth 1991 Suija et al. 2015 Zhurbenko et al. 2015a		**ranula** (Diederich 16989): ITS: KJ559532; nrLSU: KJ559554 **ranula** (NBM FL-14388): ITS: KP984782; nrLSU: KP984785
Llimoniella	**acarosporicola** (Kocourk. & K. Knudsen) Diederich & Ertz: on *Acarospora socialis*	Diederich & Etayo 2000 Diederich et al. 2010b Etayo 2010b		**gregorellae** (Vondrák 8374): ITS: KJ559547; nrLSU: KJ559569;

	adnata Hafellner & Nav.-Ros.: on *Placidium* **bergeriana** Etayo: on *Punctelia* **catapyrenii** Zhurb., Kukwa & Flakus: on *Catapyrenium* **cinnabarinae** Pérez-Ortega, Etayo & T. Sprib.: on *Ramboldia cinnabarina* **fuscatae** Hafellner & Obermayer: on *Acarospora fuscata* **gregorellae** (Alstrup & D, Hawksw.) Triebel & Hafellner: on *Gregorella humida* **groenlandiae** (Alstrup & D, Hawksw.) Triebel & Hafellner: on *Caloplaca* and *Fulgensia* **heppiae** (Nav.-Ros., Hladun & Llimona) Diederich & Ertz: on *Heppia* **muralicola** Halıcı: on *Protoparmeliopsis muralis* (probably belongs to *Unguiculariopsis*) **parmotrematis** Etayo: on *Parmotrema* **pertusariae** Diederich & Etayo: on *Lepra ophthalmiza* and *Pertusaria glaucomela* **phaeophysciae** Diederich, Ertz & Etayo: on *Phaeophyscia* **placomaroneae** Etayo & Diederich: on *Placomaronea candelarioides* **placopsidis** Diederich & Fryday: on *Placopsis* **pyrenulae** Diederich & Etayo: on *Pyrenula* **ramalinae** (Müll. Arg.) Etayo & Diederich: on *Ramalina celastri* and *R. unilateralis* **terricola** (Arnold) M. Schultz, Diederich & Ertz: on *Leptogium byssinum*	Etayo 2017 Pérez-Ortega et al. 2011 Suija et al. 2015 Zhurbenko 2013a		nrSSU: KJ559589 **gregorellae** (CBFS JV9954): ITS: KJ559531; nrLSU: KJ559553; nrSSU: KJ559581 **sp.** (Diederich 17525): ITS: KJ559533; nrLSU: KJ559555 **sp.** (CBFS8443b): ITS: JX996122 **sp.** (CBFS8443a): ITS: JX996120 **sp.** (CBFS8374): ITS: JX996121

	scabridula (Müll. Arg.) Nav.-Ros. & Hafellner: on *Acarospora nodulosa* and *A. placodiiformis* **vinosa** (Holien & Triebel) Diederich & Etayo: on *Ochrolechia* and *Lepra* cf. *borealis*			
Macroskyttea	**parmotrematis** Etayo, Flakus & Kukwa: on *Parmotrema*	Etayo et al. 2015		**parmotrematis** (UGDA): ITS: KP984784; nrLSU: KP984788; nrSSU: KP984790
Rhymbocarpus	**aggregatus** Etayo & Diederich: on *Buellia griseovirens* **boomii** Etayo & Diederich: on *Dirina ceratoniae* **cruciatus** (Sherwood, D. Hawksw. & Coppins) Etayo & Diederich: on *Diploicia canescens* **ericetorum** (Körb.) Etayo, Diederich & Ertz: on *Dibaeis baeomyces* **fuscoatrae** (Hafellner) Diederich & Etayo: on *Lecidea fuscoatra* **geographici** (J. Steiner) Vouaux: on *Rhizocarpon* **makarovae** Diederich & Etayo: on *Porpidia* **neglectus** (Vain.) Diederich & Etayo: on the *Lepraria neglecta* group **pertusariae** Diederich, Zhurb. & Etayo: on *Lepra panyrga* **pubescens** (Etayo & Diederich) Diederich & Etayo: on *Lepraria* **roccellae** (Etayo, Paz-Bermúdez & Diederich) Etayo, Diederich & Ertz: on *Roccella* **stereocaulorum** (Alstrup & D. Hawksw.)	Diederich & Etayo 2000 Diederich et al. 2010b Etayo & Diederich 2011 Suija et al. 2015		**fuscoatrae** (Ertz 16200): ITS: KJ559549; nrLSU: KJ559571; nrSSU: KJ559593

	Etayo & Diederich: on *Stereocaulon*			
Skyttea	**anziae** Etayo & Diederich: on *Anzia* **arenicola** Alstrup & E. S. Hansen: probably not a *Skyttea* and not lichenicolous **buelliae** Sherwood, D. Hawksw. & Coppins: on *Buellia punctata* **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* **gossypina** Etayo: on *Phlyctis argena* **gregaria** Sherwood, D. Hawksw. & Coppins: on *Mycoblastus fucatus* **hawksworthii** Diederich: on *Verrucaria* **heterochroae** Nav.-Ros. & Muñiz: on *Pertusaria heterochroa* **insignis** Driscoll, S. R. Clayden & R. C. Harris: on *Lecanora insignis* **lecanorae** Diederich & Etayo: on *Lecanora* **mayrhoferi** Diederich & Etayo: on *Pertusaria melanospora* **megalosporae** Etayo & Diederich: on *Megalospora tuberculosa* **nitschkei** (Körb.) Sherwood, D. Hawksw. & Coppins: on *Thelotrema lepadinum* **ochrolechiae** Zhurb.: on *Ochrolechia trochophora*	Alstrup & Hansen 2001 Diederich & Etayo 2000 Diederich & Etayo 2004 Driscoll et al. 2016 Etayo 2002a Etayo 2010c Etayo 2017 Etayo & Sancho 2008 Hafellner 2000 Navarro-Rosinès & Muñiz 2009 Suija et al. 2015 Zhurbenko et al. 2015a	**nitschkei**: Culture obtained by Crittenden et al. (1995)	**gregaria** (NY0118113): ITS: KJ559537; nrLSU: KJ559559 **lecanorae** (Ertz 16099): nrLSU: KJ559574; nrSSU: KJ559597 **lecanorae** (NY1595972): ITS: KJ559539; nrLSU: KJ559561 **nitschkei** (Ertz 17483): nrLSU: KJ559577; nrSSU: KJ559595 **pyrenulae** (Ertz 16253): nrLSU: KJ559575; nrSSU: KJ559596 **radiatilis** (NY00977030): ITS: KJ559536; nrLSU: KJ559558 **radiatilis** (NY01231276): ITS: KJ559538; nrLSU: KJ559560 [cismonicae, see GenBank]

	pertusariicola Diederich & Etayo: on corticolous *Pertusaria* **pyrenulae** Diederich, Etayo & Coppins: on *Pyrenula* **radiatilis** (Tuck.) R. Sant., Etayo & Diederich: on cf. *Loxospora pustulata* **recognita** Etayo & Diederich: on epiphytic crustaceous lichens **richardsonii** Iturr. & D. Hawksw.: on an unidentified lichen **spinosa** D. Hawksw. & Coppins: on *Verrucaria nigrescens* **tavaresae** R. Sant., Etayo & Diederich: on *Pyrrhospora* cf. *quernea* **tephromelarum** Kalb & Hafellner: on *Tephromela* **thelotrematis** Diederich & Etayo: on *Thelotrema lepadinum* **violacea** Etayo: on *Tephromela* **viridis** D. Hawksw. & Coppins: on cf. *Micarea denigrata*			
Thamnogalla	**crombiei** (Mudd) D. Hawksw.: on *Thamnolia*	Hoffmann & Hafellner 2000 Lord et al. 2013 Suija et al. 2015		**crombiei** (Diederich 17315): ITS: KJ559550; nrLSU: KJ559578; nrSSU: KJ559594 **crombiei** (Diederich 17544): ITS: KJ559534; nrLSU: KJ559556; nrSSU: KJ559556 **crombiei** (Diederich 17553): ITS: KJ559535; nrLSU: KJ559557; nrSSU: KJ559583
Unguiculariopsis	**acrocordiae** (Diederich) Diederich & Etayo: on *Acrocordia gemmata* **ahtii** D. Hawksw., D. J. Galloway & S. Y. Kondr.: on *Pseudocyphellaria*	Brackel 2011a Coppins 1988 Diederich & Etayo 2000 Etayo 2017 Etayo & Diederich 1996b		**lettaui** (TU45124): ITS: KJ559541; nrLSU: KJ559563 **lettaui** (TU64867): ITS: KJ559543; nrLSU: KJ559566;

	damingshanica W. Y. Zhuang: on unidentified lichen on bamboo **helmutii** S. Y. Kondr., L. Lőkös & J.-S. Hur: on *Rinodina* aff. *sophorodes* **lesdainii** (Vouaux) Etayo & Diederich: on *Lecanora saligna* **lettaui** (Grummann) Coppins: on *Evernia prunastri* **lobariellum** S. Y. Kondr. & D. J. Galloway: on *Lobaria* and *Durietzia* **lucaniae** Brackel: on *Lecidella elaeochroma* **macrocarpa** Etayo: on *Pseudocyphellaria* **manriquei** Etayo: on *Lobaria pulmonaria* **peltigericola** Etayo: on *Peltigera* **refractiva** (Coppins) Coppins: on *Bilimbia* **thallophila** (P. Karst) W. Y. Zhuang: on *Lecanora* **triregia** S. Y. Kondr. & D. J. Galloway: on *Sticta* [see also *Llimoniella muralicola* Halıcı: on *Protoparmeliopsis muralis*]	Etayo & Sancho 2008 Kondratyuk et al. 1994 Kondratyuk & Galloway 1995a Kondratyuk & Galloway 1995b Kondratyuk et al. 2016b Suija et al. 2015 Zhuang 2000		nrSSU: KJ559586 **lettaui** (Ertz 16346): ITS: KJ559548; nrLSU: KJ559579; nrSSU: KJ559592 **thallophila** (TU45703): nrLSU: KJ559565 **thallophila** (Diederich 16944): nrLSU: KJ559573
Helicogoniaceae				
Geltingia	**associata** (Th. Fr.) Alstrup & D. Hawksw.: on *Ochrolechia*, more rarely on *Lepra dactylina* and *Thamnolia*	Alstrup & Hawksworth 1990 Diederich et al. 2010b Suija et al. 2015		**associata** (TU45655): ITS: KJ559542; nrLSU: KJ559564; nrSSU: KJ559585 **associata** (Pérez-Ortega 1039): ITS: KJ559540; nrLSU: KJ559562; nrSSU: KJ559584 **associata** (Björk 22459): nrLSU: KJ559576; nrSSU: KJ559580
Helotiaceae				
Bryoscyphus	**lichenicola** Alstrup & M. S. Cole: on *Cladonia* cf. *pyxidata*	Alstrup & Cole 1998		

Hyaloscyphaceae				
Hyalopeziza	**heterodermiae** Etayo: on *Heterodermia* **rapax** Huhtinen: on *Pseudocyphellaria*	Etayo 2017 Huhtinen et al. 2008		
Polydesmia	**lichenis** Huhtinen & R. Sant.: on *Peltigera*	Huhtinen & Santesson 1997		
Protounguicularia	**fasciculata** (Etayo) Etayo: on *Ramalina stenospora* **hispidula** (Etayo) Etayo: on *Psoroma hispidulum* **nephromatis** (Zhurb. & Zavarzin) Huhtinen, D. Hawksw. & Ihlen: on *Nephroma* **usneae** Etayo: on *Usnea*	Etayo 2010b Etayo 2017 Etayo & Triebel 2010 Huhtinen et al. 2008 Zhurbenko 2007a		
Mollisiaceae				
Mollisia	**collematis** Boud.: on *Collema*	Clauzade et al. 1989 Vouaux 1914		
Niptera	**lichenicola** (Speg.) Sacc.: on *Flavoparmelia caperata* **microscopica** (Crouan) Vouaux: on *Placynthiella uliginosa*	Clauzade et al. 1989 Vouaux 1914		
Pezizellaceae				
Calycina	**alstrupii** Suija & Motiejūnaitė: on *Lobaria pulmonaria*	Suija & Motiejūnaitė 2017		**alstrupii** (Pz162): ITS: KY305095; nrLSU: KY305097; mtSSU: KY305099 **alstrupii** (Pz167): ITS: KY305096; nrLSU: KY305098; mtSSU: KY305100
Chalara	**lichenicola** M. S. Christ.: on *Cladonia* **lobariae** Etayo: on *Lobaria pulmonaria* **pseudocyphellariae** Etayo: on *Pseodocyphellaria*	Christiansen 1993 Etayo & Diederich 1996b Etayo & Sancho 2008		
Pezizella auct.	**epithallina** (W. Phillips & Plowr.) Sacc.:	Etayo 2002a		**epithallina** (TU39378): ITS:

	on *Peltigera* **stictae** Etayo: on *Sticta* **ucrainica** S. Y. Kondr.: on *Cladonia*	Hawksworth 1980b Kondratyuk & Galloway 1995a Oksner 2010 Suija et al. 2015 Zhurbenko & Pino-Bodas 2017		KJ559546; nrLSU: KJ559570; nrSSU: KJ559590 **epithallina** (Diederich 17411): ITS: KJ559552; nrLSU: KJ559572
Helotiales incertae sedis				
Cecidioskyttea	**osorioi** Etayo: on *Concamerella fistulosa*	Etayo & Osorio 2004		
Chloroepilichen	**rolfii** Etayo: on *Lobaria*	Etayo 2010b		
Echinodiscus	**kozhevnikovii** Zhurb.: on *Cetraria* **lesdainii** (Vouaux) Etayo & Diederich: on *Lecania*	Etayo & Diederich 2000 Zhurbenko 2009a		
Pleoscutula	**arsenii** Vouaux: on *Heterodermia* **hypotrachynae** Etayo & Diederich: on *Hypotrachyna*	Etayo 2002a Hafellner 1982b		
Skyttella	**mulleri** (Willey) D. Hawksw. & R. Sant.: on *Peltigera* **stictae** Etayo: on *Sticta*	Etayo 2017 Hawksworth & Santesson 1988		
'Solenopeziza'	**tetraspora** P. Henn.: on *Physcia integrata*	Clauzade et al. 1989 Vouaux 1914		
Leotiomycetes incertae sedis				
Epicladonia	**sandstedei** (Zopf) D. Hawksw.: on *Cladonia*	Hawksworth 1981 Pino-Bodas et al. 2017		**sandstedei** (V. Haikonen 27543a): ITS: KY661614; nrLSU: KY661650; nrSSU: KY661693; mtSSU: KY661672 **sandstedei** (M.P. Zhurbenko 141): ITS: KY661631; mtSSU: KY661682

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	Species	**Significant literature**	Cultures (with accession	Sequences (with accession

	(**lichenicolous fungi in bold**; *lichenicolous lichens or facultative lichenicolous fungi in italics*)		numbers when known; **culture collection links**)	numbers)
ASCOMYCOTA				
LABOULBENIOMYCETES				
Laboulbeniales s. lat.				
Gliocephalis	**pulchella** (Penz. & Sacc.) D. Hawksw.: on *Sticta*	Hawksworth 1979a		

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	Species (**lichenicolous fungi in bold**; *lichenicolous lichens or facultative lichenicolous fungi in italics*)	**Significant literature**	Cultures (with accession numbers when known; **culture collection links**)	Sequences (with accession numbers)
ASCOMYCOTA				
LICHENOMYCETES				
Lichinales				
Lichinaceae				
Lichinodium	*sirosiphoideum* Nyl.: lichen, juvenile parasite of *Parmelia* s.lat.	Rambold & Triebel 1992		
Phylliscum	*demangeonii* (Moug. & Mont.) Nyl.: lichen, juvenile parasite on *Ochrolechia frigida*	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				
SORDARIOMYCETES				
DIAPORTHOMYCETIDAE				
Diaporthomycetidae incertae sedis				
Trichosphaeriaceae				
Trichosphaeria	**lichenum** P. Karst. & Hariot: on *Peltigera*	Clauzade et al. 1989 Hawksworth 1980b		
HYPOCREOMYCETIDAE				
Coronophorales				
Nitschkiaceae				
Acanthonitschkea	**peltigericola** (Alstrup & Olech) O. E. Erikss. & R. Sant.: on *Peltigera*	Alstrup & Olech 1993		
Lasiosphaeriopsis	**cephalodiorum** (Rostr.) Alstrup: on *Placopsis* **christiansenii** Alstrup & D. Hawksw.: on *Porpidia tuberculosa* [=? *L. supersparsa*] **lecanorae** Pérez-Ortega & Halıcı: on *Lecanora polytropa* **pilophori** Zhurb. & Triebel: on *Pilophorus* **salisburyi** D. Hawksw. & Sivan.: on *Peltigera* **stereocaulicola** (Linds.) O. E. Erikss. & R. Sant.: on *Sterocaulon* **supersparsa** (Zopf) Triebel: on *Porpidia*	Alstrup et al. 1994 Alstrup & Hawksworth 1990 Eriksson & Santesson 1986 Hawksworth 1980b Pérez-Ortega & Halıcı 2008 Triebel 1989 Zhurbenko & Triebel 2005		
Rhagadostoma	**boleae** Nav.-Ros. & Hladun: on *Lecania* **brevisporum** (Nav.-Ros. & Hladun) Nav.-Ros.: on *Peltigera* and *Solorina* **collematum** Etayo & Nav.-Ros,: on **corrugatum** Körb.: on **lichenicola** (De Not.) Keissl.: on **pannariae** Etayo: on *Pannaria*	Etayo & Sancho 2008 Navarro-Rosinés et al. 1999 Navarro-Rosinés & Hladun 1994		

	rugosum Nav.-Ros. & Hladun: on *Verrucaria nigrescens* **verrucariarum** Nav.-Ros. & Hladun: on *Verrucaria*			
Rhagadostomella	**gregaria** Etayo: on *Sticta*	Etayo 2002a		
Hypocreales				
Bionectriaceae				
Acremonium	**antarcticum** (Speg.) D. Hawksw.: on various lichens, facultative lichenicolous **bavaricum** Brackel: on *Melanelixia glabratula* **hypholomatis** (Boedijn) D. Hawksw.: on *Physcia stellaris*, facultative lichenicolous **lichenicola** W. Gams: on lichens and other substrata [**pedatum** Lowen: on *Hypogymnia physodes* = anamorph of *Trichonectria anisospora*] **persicinum** (Nicot) W. Gams: isolated from lichens, facultative lichenicolous **pertusariae** Brackel & Etayo: on *Lepra* and *Pertusaria* *psychrophilum* Möller & Gams: isolated from lichens [**rhabdosporum** W. Gams: on *Parmelia*, also reported from *Cladonia* = anamorph of *Trichonectria rubefaciens*] **spegazzinii** D. Hawksw.: on *Leptogium* **strictum** W. Gams: facultative lichenicolous **subeffusum** (Ellis & Galw.) Etayo & Brackel: on *Physcia millegrana* and	Brackel et al. 2012 Diederich 1989 Diederich & Braun 2009 Hawksworth 1979a Lowen 1995	**antarcticum**: CBS 987.87; BCRC **bavaricum**: CIRM **lichenicola**: CBS (6 strains); VKM; BCRC *persicinum*: BCCM; UAMH; CCM; LCP; DSMZ; ITCC; MTCC; IFO; JCM; CBS; KMM; BCRC; IMI; ATCC; ARS (NRRL) **pertusariae**: CIRM (isotype) *rhabdosporum* (= anamorph of *Trichonectria rubefaciens*): 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*: 5SRNA: X00866; X00865; X00864

	possibly other lichens			
Globonectria	**cochensis** Etayo: on *Lobaria pallida*	Etayo 2002a		
Nectriopsis	**albida** Etayo: on *Sticta* **Nectria brutia** Diederich & Puntillo: on *Collema* **cariosae** Brackel & D. G. Zimmermann: on *Cladonia* **cladoniicola** M. S. Cole & D. Hawksw.: on *Cladonia* **collematis** Diederich: on *Collema* **curtiseta** Etayo: on *Sticta* **guamuesii** Etayo: on *Sticta* **heterodermiae** Etayo: on *Heterodermia* **hirta** Etayo: on *Lepra* and *Pertusaria* **indigens** (Arnold) Diederich & Schroers: on perithecioid lichens, often near water **lecanodes** (Ces.) Diederich & Schroers: on cyanobacterial macrolichens, mainly *Lobaria*, *Peltigera* and *Pseudocyphellaria*, also on *Collema* and *Leptogium* **leptogii** Diederich: on *Leptogium* **lichenophila** (Speg.) Etayo: on *Heterodermia* **melongenoidea** Etayo: on *Gomphillus* **micareae** Diederich, van den Boom & Ernst: on *Micarea* **mindoensis** (Petrak) (Petr.) Samuels: facultative lichenicolous on *Coenogonium* **peruviana** Etayo & R. Sant.: on *Dictyonema* and *Coccocarpia*	Alstrup 1996 Aptroot et al. 1997 Brackel & Zimmermann 2012 Cole & Hawksworth 2001 Diederich & Puntillo 1995 Earland-Bennett et al. 2006 Etayo 2002a Etayo 2010a Etayo 2017 Etayo & Sancho 2008 Kondratyuk et al. 2016a Matzer 1996 Samuels 1988 Sérusiaux et al. 1999	**lecanodes**: ATCC MYA-3179 **lecanodes**: CBS 102482	

	physciicola D. Hawksw. & Earl.-Benn.: on *Physcia stellaris* **porinicola** Samuels: on foliicolous *Porina* **silvaustralis** Etayo: on *Pseudocyphellaria* **tatrensis** (Alstrup) Lisická & Alstrup: on *Thelidium* **verseghyklarae** S. Y. Kondr., L. Lőkös & J.-S. Hur: on *Verseghya klarae* **vinosa** Etayo: on *Usnea* **vivida** Etayo & Sipman: on undetermined crustaceous lichen			
Ovicuculispora	**macrospora** Etayo: on sterile saxicolous crust (Gomphillaceae?) **parmeliae** (Berk. & Curt.) Etayo: on *Erioderma*, *Graphis*, *Heterodermia*, *Parmelia*, *Pertusaria*, *Punctelia*, *Sticta*	Etayo 2010b	**parmeliae**: ATCC 200561 **parmeliae**: ATCC 200825	**parmeliae** (ATCC 200561): nrSSU: AF289657
Paranectria	**affinis** (Grev.) Sacc.: on *Ephebe pubescens* **alstrupii** Zhurb.: on *Psoroma hypnorum* **oropensis** (Rabenh.) D. Hawksw. & Piroz.: on various lichens **superba** D. Hawksw.: on *Peltigera*	Clauzade et al. 1989 Hawksworth 1982a Rossman et al. 1999 Zhurbenko 2009d	**oropensis**: CBS 115018	
Pronectria	**algicola** Vondrák, Naumovich & Khodos,: on terricolous microbial crusts possibly associated with *Sarcosagium* or *Steinia* **angulospora** Etayo: on *Heterodermia* **biglobosa** Etayo: on *Hypotrachyna* **caloplacae** Khodos., Vondrák & Naumovich: on *Caloplaca austrocitrina* **casaresii** Etayo: on *Evernia prunastri* **collematis** Etayo & Brackel: on *Collema* **dealbans** (Müll. Arg.) Etayo & Breuss: on *Endocarpon*	Berger & Zimmermann 2016 Brackel 2013 Brackel 2015 Brackel & Etayo 2010 Etayo 1998 Etayo 2001 Etayo 2002a Etayo 2010b Etayo 2010c Etayo 2017 Etayo & Breuss 1996 Etayo & Diederich 1996b Etayo & Sancho 2008 Etayo & Triebel 2010 Hawksworth 1979a	**oligospora**: Culture RL929-92 obtained by Lowen (1995) **robergei**: CBS 128021 **robergei** (as *Illosporium carneum*: ATCC 201590 **santessonii**: ATCC 62531 (listed as *Nectriella santessonii*)	**robergei** (as *Illosporium carneum* (ATCC 201590): nrSSU: AF289655

	dillmaniae Zhurb.: on *Catapyrenium cinereum* **diplococca** Kocourk., Khodos., Naumovich, Vondrák & Motiej.: on *Collema* **echinulata** Lowen: on *Physcia* **erythrinella** (Nyl.) Lowen: on *Peltigera* **fragmospora** Etayo: on *Usnea* **hymeniicola** Etayo: on *Collema* **invisibilis** Etayo: on *Nephroma antarcticum* **lecideicola** Zhurb.: on *Lecidea ramulosa* **leptogii** Etayo: on *Leptogium* **microspora** Etayo: on *Lobaria pallida* **minuta** Motiej. & Kukwa: on *Cladonia* subg. *Cladina* **neofissuriprodiens** F. Berger & E. Zimm.: on *Lobaria* **occulta** Etayo: on *Usnea* **oligospora** Lowen & Rogersen: on *Punctelia* **oligospora** var. **octospora** Etayo: on *Punctelia* **parmotrematis** Etayo: on *Parmotrema* **pedemontana** Brackel: on *Collema auriforme* **pertusariicola** Lowen: on *Lepra* and *Pertusaria* **pilosa** Etayo & López Silanes: on *Collema* **pycnidioidea** Etayo: on *Heterodermia* **robergei** (Mont. & Desm.) Lowen: on *Peltigera* [anamorph: *Illosporium carneum* Fr.]	Khodosovtsev 2012 López de Silanes et al. 2009 Lowen 1995 Lowen & Diederich 1990 Lowen & Hawksworth 1986 Motiejunaite & Kukwa 2008 Rossman et al. 1999 Sikaroodi et al. 2001 Zhurbenko 2007b Zhurbenko 2009d Zhurbenko & Alstrup 2004 Zhurbenko et al. 2005		

	rolfiana Etayo: on *Solorina* **roseopunctata** Etayo: on *Hypotrachyna* **santessonii** (Lowen & D. Hawksw.) Lowen: on *Anaptychia runcinata* **sticticola** Etayo: on *Sticta* **tenacis** (Vouaux) Lowen: on *Collema* **tenuispora** (D. Hawksw.) Lowen: on *Peltigera* **terrestris** Lowen & Diederich: on *Thrombium epigaeum* **tibellii** Zhurb.: on *Cladonia* **tincta** (Fuckel) Lowen: on *Anaptychia ciliaris* **toniniae** Etayo: on *Toninia sedifolia* **verrucariae** (Vouaux) Lowen: on *Verrucaria* **walkerorum** Zhurb.: on *Ochrolechia* **xanthoriae** Lowen & Diederich: on *Xanthoriae* **zhurbenkoi** Brackel: on *Peltigera praetextata*			
Trichonectria	**anisospora** (Lowen) van den Boom & Diederich: on *Hypogymnia* **apiculata** Etayo: on *Usnea* **australis** Etayo: on *Usnea* **calopadiicola** Farkas & Flakus: on *Calopadia* cf. *puiggari* **cladoniicola** (Alstrup & Svane) Alstrup: on *Cladonia* **furcatosetosa** Brackel: on necrosed *Melanelixia*, *Parmelia*, *Physcia* and *Candelariella* **hirta** (A. Bolxam) Petch: on corticolous	Alstrup & Svane 1998 Brackel 2014 Etayo 2001 Etayo 2002a Etayo 2017 Etayo & Sancho 2008 Etayo & van den Boom 2005 Farkas & Flakus 2016 Gardiennet & Lechat 2012 Sérusiaux et al. 1999 Hawksworth 1978b Rossman et al. 1999	**rubefaciens** (see anamorph *Acremonium rhabdosporum* under Anamorphic Ascomycota)	

	lichens **hypotrachynae** Etayo: on *Hypotrachyna* **intermedia** Etayo: on *Parmotrema* **leptogiicola** Etayo: on *Leptogium* **pertusariae** Etayo & van den Boom: on *Pertusaria* **pyrenaica** Gardiennet & Lechat: on *Usnea* **rubefaciens** (Ellis & Everh.) Diederich & Schroers: on *Parmelia* s.lat. [anamorph: *Acremonium rhabdosporum*] **setadpressa** Etayo: on *Lobaria* **usneicola** Etayo: on *Usnea*			
Clavicipitaceae				
Neobarya	**ciliaris** Etayo: on *Heterodermia* **darwiniana** Etayo: on *Nephroma antarcticum* **lichenophila** (Ferd. & Winge) Lowen & Samuels: on *Cladonia* **peltigerae** Lowen, Boqueras & Gomez-Bolea: on *Peltigera*	Candoussau et al. 2007 Etayo 2002a Etayo & Sancho 2008		
Cordycipitaceae				
Syspastospora	**cladoniae** Etayo: on *Cladonia convoluta*	Etayo 2008		
Hypocreaceae				
Hypomyces	**peltigericola** Lechat & Gardiennet: on *Peltigera canina*	Lechat et al. 2017	**peltigericola:** CBS 141848 (TYPE CULTURE)	**peltigericola** (CBS 1418480): ITS: KY088202
Lichenobarya	**usneae** (Etayo) Etayo, Diederich & Lawrey: on *Usnea*	Lawrey et al. 2015	**usneae** (Buck 61451): CBS 137512	**usneae** (Driscoll 1037): ITS: KP899627 **usneae** (Buck 61451): ITS: KP899624; nrLSU: KP899625
Nectriaceae				
Fusarium	**peltigerae** Westend.: on *Peltigera*	Hawksworth 1979a	**sp.**: ATCC 208869; ARS-NRRL 26803	**sp.** (ATCC 208869): nrLSU: AF228360; nrSSU: AF289654

Nectria	**byssophila** Rossman: on *Pannaria*, *Peltigera*, *Pseudocyphellaria* and *Psoroma* **paraguayensis** Speg.: facultative lichenicolous on lichens	Etayo & Sancho 2008 Hirooka et al. 2012		
Xenonectriella	**aurantiaca** Etayo: on *Pseudocyphellaria* **calabrica** Brackel & Puntillo: on *Pertusaria pertusa* **coppinsiana** Etayo: on *Yoshimuriella subdissecta* **dirinariae** Etayo & van den Boom: on *Dirinaria* **fissuriprodiens** (Etayo) Etayo: on *Lobaria* **humilis** Etayo: on *Pseudocyphellaria* **leptaleae** (J. Steiner) Rossman & Lowen: on *Physcia* and *Physconia* **leptaleoides** (Etayo) Etayo: on *Leptogium* **lutescens** (Rehm) Weese: on *Solorina* **ornamentata** (D. Hawksw.) Rossman: on *Peltigera* **protopannariae** (Zhurb.) Brackel: on *Protopannaria pezizoides* **rosea** Etayo: on *Pannaria* **rugulatispora** Etayo: on *Lobariella* **septemseptata** (Etayo) Etayo & van den Boom: on *Melanelixia* **streimannii** (S. Y. Kondr., Coppins & D. J. Galloway) Rossman: on *Lobaria* and *Sticta* **subimperspicua** (Speg.) Etayo: on *Punctelia* **subimperspicua** var. **degenerans**	Brackel 2014 Brackel & Puntillo 2016 Etayo 2002a Etayo 2017 Etayo & Sancho 2008 Etayo & Triebel 2010 Etayo & van den Boom 2013 Rossman et al. 1999 van den Boom & Etayo 2014		

	Etayo: on *Parmotrema* **vertebrata** Etayo: on *Heterodermia*			
Niessliaceae				
Atronectria	**magellanica** Etayo: on *Pseudocyphellaria* and *Nephroma*	Etayo & Sancho 2008		
Melanopsamma	**lettauiana** (Keissl.) Vouaux: on saxicolous, crustose lichens	Clauzade et al. 1989		
Niesslia	**cladoniicola** D. Hawksw. & W. Gams: on *Cladia* and *Cladonia* [anamorph: *Monocillium* sp.] **echinoides** Etayo, Flakus & Kukwa: on *Erioderma* **evae** Etayo: on *Erioderma* **globospora** Etayo: on *Dictyonema* **keissleri** Zhurb.: on *Cladia* and *Cladonia* [= *Echinothecium cladoniae* Keissl. nom. nud.] **kununguakii** Alstrup & E. S. Hansen: on *Arthrorhaphis alpina* **lobariae** Etayo & Diederich: on *Lobaria* **peltigericola** (D. Hawksw.) Etayo: on *Peltigera* **pseudocyphellariae** Etayo & Diederich: on *Pseudocyphellaria* **robusta** Tretiach: on *Tephromela grumosa* **schyzospora** Etayo: on *Hypotrachyna* **stictarum** (Nannf. & R. Sant.) R. Sant. & Tretiach: on *Sticta* **stictarum** subsp. **nuda** Etayo: on *Lobariella* **tatjanae** (S. Y. Kondr.) Etayo: on *Pseudocyphellaria* **tetrahedrospora** Etayo: on	Alstrup & Hansen 2001 Etayo 2000 Etayo 2002a Etayo 2017 Etayo & Diederich 1996b Etayo & Sancho 2008 Etayo et al. 2013a Hawksworth 1975b Hawksworth 1979a Tretiach 2002 Zhurbenko & Pino-Bodas 2017	**cladoniicola**: CBS 960.73	

	Dichosporidium [possibly belongs to *Trichosphaerella*, fide Lendemer et al. 2016] **yaganae** Etayo: on *Nephroma antarcticum*			
Trichosphaerella	**buckii** R. C. Harris & Lendemer: on *Punctelia rudecta*	Lendemer et al. 2016		
Hypocreales incertae sedis				
Chondronectria	**eriodermaticola** Etayo, Flakus & Kukwa: on *Erioderma*	Etayo 2017		
Cylindronectria	**cyanobactericola** Etayo: on epilichenic cyanobacteria	Etayo 2017		
Illosporiopsis	**christiansenii** (B. L. Brady & D. Hawksw.) D. Hawksw.: on various corticolous lichens	Lowen et al. 1986 Sikaroodi et al. 2001	**christiansenii**: ATCC 201109 **christiansenii**: Culture (as *Hobsonia christiansenii*) obtained by Crittenden et al. (1995)	**christiansenii** (ATCC 201109): nrSSU: AF289656
Leptobarya	**auranticarpa** Etayo: on *Leptogium* **nigra** Etayo: on *Leptogium*	Etayo 2017		
Roselliniella	**africana** Diederich: on *Usnea* **atlantica** Matzer & Hafellner: on *Xanthoparmelia*, *Hypotrachyna* and *Platismatia* **cladoniae** (Anzi) Matzer & Hafellner: on *Cladonia* **coccocarpiae** (Pat.) Matzer & R. Sant.: on *Degelia* **epiphylla** Matzer & Hafellner: on foliicolous *Sporopodium* **eriodermicola** Matzer & R. Sant.: on *Erioderma tomentosum* **euparmeliicola** Millanes & D. Hawksw.: on *Parmelia* s. str.	Aptroot et al. 1997 Etayo 2002a Hawksworth & Miadlikowska 1997a Hawksworth et al. 2010 Hoffmann & Hafellner 2000 Matzer & Hafellner 1990 van den Boom 2015 Zhurbenko et al. 2009		**atlantica**: nrLSU: GQ888763 **sp.** (DLH 2009a): nrLSU: GQ888764

	heterodeae Matzer & Hafellner: on *Cladia muelleri* **microthelia** (Wallr.) Nik. Hoffm. & Hafellner: on *Trapelia* **muralis** van den Boom: on *Protoparmeliopsis muralis* **nephromatis** (Crouan) Matzer & Hafellner: on *Nephroma* **oxyspora** Matzer & R. Sant.: on *Coccocarpia* **pannariae** Matzer & Hafellner: on *Protopannaria pzizoides* **papuana** Diederich: on *Usnea* **peltigericola** D. Hawksw. & Miadl.: on *Peltigera* **ramirezii** Etayo: on *Lobaria* **stereocaulorum** Zhurb., Kukwa & Oset: on *Stereocaulon* **stictae** Etayo: on *Sticta*			
Trichothecium	**roseum** (Pers. ex Fr.) Link ex Fr.: facultative lichenicolous	Hawksworth 1979a		
SORDARIOMYCETIDAE				
Phyllachorales				
Phyllachoraceae				
Lichenochora	**acutispora** Etayo: on *Fuscopannaria magellanica* **aipoliae** Etayo, Nav.-Ros. & Coppins: on *Physcia aipolia* **aprica** Hafellner & Nik. Hoffm.: on *Aspicilia* **arctica** Zhurb.: on *Candelariella canadensis* and neighbouring *Rinodina terrestris*	Aptroot et al. 1997 Calatayud et al. 2000 Etayo 2010c Etayo 2011 Etayo 2017 Etayo & Navarro-Rosinés 2008 Etayo et al. 2013c Etayo & Sancho 2008 Hafellner 1989 Hafellner & Berger 2000 Hafellner & Zimmermann 2012		

	atrans Halıcı, K. Knudsen & Candan: on *Psora decipiens* **bacidiispora** Etayo: on *Parmotrema* **bellemerei** Nav.-Ros., Cl. Roux & Diederich: on *Menegazzia* **caloplacae** Zhurb.: on *Caloplaca* **chimaerica** Etayo: on *Pertusaria* [close to *Parapyrenis*, fide Etayo, pers. comm.] **clauzadei** Nav.-Ros., Cl. Roux & Llimona: on *Squamarina* **coarctatae** (B. de Lesd.) Hafellner & F. Berger: on *Trapelia* **collematum** Nik. Hoffm. & Hafellner: on *Collema ceraniscum* **constrictella** (Müll. Arg.) Hafellner: on *Fulgensia bracteata* **coppinsii** Etayo & Nav.-Ros.: on *Protopannaria pezizoides* **elegantis** Hafellner: on *Xanthoria elegans* **epidesertorum** Nav.-Ros.: on *Fulgensia desertorum* **epifulgens** Nav.-Ros. & Cl. Roux: on *Fulgensia fulgens* **epimarmorata** Nav.-Ros.: on *Caloplaca marmorata* **epinashii** Nav.-Ros. & Etayo: on *Caloplaca nashii* **gahavisukae** Diederich: on ?*Graphis* **galligena** R. Sant. & Hafellner: on *Physcia* **haematommatum** R. C. Harris & Lendemer: on *Haematomma personii* **heppiae** Cl. Roux: on *Heppia lutosa* **hypanica** S. Y. Kondr., L. Lõkös & J.-S.	Hoffmann & Hafellner 2000 Ihlen & Wedin 2005 Kondratyuk et al. 2014 Kondratyuk et al. 2015 Lendemer et al. 2016 Navarro-Rosinés & Etayo 2001 Navarro-Rosinés et al. 1994 Navarro-Rosinés et al. 1998a Navarro-Rosinés et al. 1998c Navrotskaya et al. 1996 Roux & Triebel 1994 Triebel et al. 1991 Zhurbenko 2013a Zhurbenko & Brackel 2013		

	Hur: on *Endocarpon* **hyperphysciae** Etayo: on *Hyperphyscia adglutinata* **inconspicua** Hafellner: on *Mycobilimbia berengeriana* **lecidellae** Boqueras & Nav.-Ros.: on *Lecidella elaeochroma* **lepidiotae** (Anzi) Etayo & Nav.-Ros.: on *Fuscopannaria praetermissa* **makareviczae** S. Y. Kondr.: on *Lecanora* aff. *campestris* **mediterraneae** Calat., Nav.-Ros. & E. Calvo: on *Fuscopannaria mediterranea* **monegrina** Etayo: on terricolous *Polyblastia* **obscuroides** (Linds.) Triebel & Rambold: on *Phaeophyscia*, more rarely *Physcia* **paucispora** Etayo & Nav.-Ros.: on *Bilimbia sabuletorum* **physciicola** (Ihlen & R. Sant.) Hafellner: on *Physcia dubia* **polycoccoides** Hafellner & R. Sant.: on *Physcia tribacia* **pyrenodesmiae** Nav.-Ros. & Cl. Roux: on *Caloplaca* cf. *variabilis* **rinodinae** Zhurb.: on *Rinodina* **sinapispermae** Etayo & Nav.-Ros.: on *Caloplaca sinapisperma* **tertia** Etayo, Flakus & Rodr. Flakus: on *Xanthoria elegans* **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 *Physconia* **xanthoriae** Triebel & Rambold: on *Xanthoria elegans* (and *Caloplaca*?)			
Sordariales incertae sedis				
Globosphaeria	**jamesii** D. Hawksw.: on *Normandina pulchella*	Hawksworth 1990b		
Reconditella	**physconiarum** Hafellner & Matzer: on *Physconia distorta* and *P. venusta*	Matzer & Hafellner 1990		
Roselliniomyces	**erinaceus** Etayo: on *Sticta* **trichotheliorum** Matzer & Hafellner: on foliicolous *Trichothelium*	Etayo 2017 Matzer & Hafellner 1990		
Roselliniopsis	**gelidaria** (Mudd) Matzer: on *Placopsis gelida* **groedensis** (Zopf) Matzer & Hafellner: on *Varicellaria lactea* **palicei** Etayo: on *Placopsis gelida* **phaeophysciae** S. Y. Kondr., L. Lökös & J.-S. Hur: on *Phaeophyscia* **tartaricola** (Leight.) Matzer: on *Ochrolechia tartarea*, *Pertusaria pupillaris* and *Varicellaria hemisphaerica* **tropica** Matzer & R. Sant.: on ?*Ochrolechia* **ventosa** (Rostr.) Alstrup: on *Placopsis gelida*	Alstrup et al. 1994 Etayo 2003 Kondratyuk et al. 2013 Matzer 1993 Matzer & Hafellner 1990		
XYLARIOMYCETIDAE				
Xylariales				
Hyponectriaceae				
Charonectria	**amabilis** Lowen & D. Hawksw.: on *Phaeorrhiza*	Rossman et al. 1999		

Xylariaceae				
Anthostomella	**apogyra** (Nyl.) Saccardo & D. Saccardo: on *Umbilicaria*	Clauzade et al. 1989 Matzer & Hafellner 1990		
SORDARIOMYCETES incertae sedis				
Coniochaetales				
Coniochaetaceae				
Coniochaeta	*ligniaria* (Grev.) Massee: facultative lichenicolous on *Diploschistes diacapsis*	Etayo 2008		

Home

	Species (**lichenicolous fungi in bold**; *lichenicolous lichens or facultative lichenicolous fungi in italics*)	**Significant literature**	Cultures (with accession numbers when known; **culture collection links**)	Sequences (with accession numbers)
ASCOMYCOTA				
Families incertae sedis				
Arthrorhaphidaceae				
Arthrorhaphis	**aeruginosa** R. Sant. & Tønsb.: on *Cladonia* **alpina** (Schaer.) R. Sant.: juvenile parasite on *Baeomyces rufus*, later an independent lichen **arctoparmeliae** Kocourk. & van den Boom: on *Arctoparmelia incurva* **citrinella** (Ach.) Poelt: facultative juvenile parasite on *Baeomyces rufus*, later or from the beginning an independent lichen **grisea** Th. Fr.: juvenile parasite on *Baeomyces*, later an independent lichen **muddii** Obermayer: on *Dibaeis baeomyces*	Etayo 2017 Kocourková & van den Boom 2005 Obermayer 1994 Santesson & Tønsberg 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

	olivaceae R. Sant. & Tønsb.: on *Melanohalea olivacea* **phyllobaeis** Etayo & Palice: on *Phyllobaeis* **vaccillans** Th. Fr.: juvenile parasite on *Baeomyces*, later an independent lichen			
Dactylosporaceae				
Dactylospora	**acarospora** (H. Magn.) Hafellner: on *Acarospora* **aeruginosa** Hohlien & Ihlen: on various lichens **ahtii** Zhurb. & Pino-Bodas: on *Cladonia* **allantoidea** Alstrup & D. Hawksw.: on *Xanthoparmelia pulla* **amygdalariae** Triebel: on *Amygdalaria* **anziae** Zhurb., Ezhkin, Skirina & Y. Ohmura: on *Anzia* **aspiciliicola** Alstrup & D. Hawksw.: on *Aspicilia* **athallina** (Müll. Arg.) Hafellner: on *Baeomyces rufus* **attendenda** (Nyl.) Arnold: on *Amygdalaria*, *Icmadophila*, *Pilophorus* and *Porpidia* **australis** Triebel & Hertel: on *Lecidea*, *Paraporpidia*, *Poeltiaria*, *Poeltidea*, *Porpidia*, *Rimularia* and *Tremolecia* **borealis** Hohlien & Ihlen: on *Mycoblastus* and other lichens **cladoniicola** Alstrup & Olech: on *Cladonia* **davidii** Hafellner & H. Mayrh.: on *Pseudocyphellaria* **deminuta** (Th. Fr.) Triebel: on *Amygdalaria*, *Bacidia*, *Biatora*, *Lecanora*,	Alstrup et al. 1994 Alstrup & Hawksworth 1990 Alstrup & Olech 1993 Clauzade et al. 1989 Etayo 1991 Etayo 2010c Etayo 2017 Etayo & Sancho 2008 Fryday & Coppins 2012 Hafellner 1979 Hafellner 1985b Hafellner & Mayrhofer 2007 Hafellner et al. 2002 Hawksworth 2003 Ihlen et al. 2004a Kondratyuk & Galloway 1995c Olech & Alstrup 1996 Pino-Bodas et al. 2017 Sérusiaux & Wessels 1984 Triebel 1989	**lobariella**: CBS 300.80 **parasitica**: CBS 101579 **parasitica**: Culture obtained by Crittenden et al. (1995)	**ahtii** (S. & S. Talbot CHI017-63a): ITS: KY661618 **ahtii** (S. & S. Talbot CHI017-37a): ITS: KY661622; mtSSU: KY661687 **ahtii** (F. Högnabba 1325a): ITS: KY661630; nrLSU: KY661659; mtSSU: KY661686 **deminuta** (J. Pykälä 39390): ITS: 661629; mtSSU: KY661681 **glaucomarioides** (M.P. Zhurbenko 13107): ITS: KY661632; nrLSU: KY661660; mtSSU: KY661683 **lobariella** (AFTOL-ID 2137, CBS 300.80): nrSSU: FJ176837; nrLSU: FJ176891 **parasitica** (E.W. Tugi s.n.): ITS: KY661646; nrLSU: KY661666; mtSSU: KY661690 **parasitica** (M.P. Zhurbenko12135): mtSSU: KY661691 **parasitica** (J. Pykälä 39145): nrLSU: KY661667; mtSSU: KY661692

	Lecidea, *Lopadium*, *Micarea*, *Mycobilimbia*, *Pannaria*, *Protopannaria* and *Rinodina* **dobrowolskii** Olech & Alstrup: on *Caloplaca saxicola* **frigida** Hafellner: on *Brigantiaea* **glaucomarioides** ((Tuck.) Hafellner: on *Ochrolechia* **hafellneriana** Sérus.: on *Santessonia lagunebergii* **heterodermiae** Etayo: on *Heterodermia* **homoclinella** (Nyl.) Hafellner: on *Lecanora* and *Tephromela* **inquilina** (Tuck.) Hafellner: on corticolous *Pertusaria* **inconspicua** Etayo: on *Menegazzia* **lobariella** (Nyl.) Hafellner: on *Lobaria* **microspora** Etayo: on *Megalaria pulverea* **ophthalmizae** Coppins ined.: probably on *Lepra ophthalmiza* **orygmaea** (Nyl.) S. Y. Kondrat. & D. J. Galloway: on *Pseudocyphellaria berberina* **parasitica** (Flörke) Zopf: on *Lepra*, *Ochrolechia* and *Pertusaria* **parellaria** (Nyl.) Arnold: on *Ochrolechia parella* **pertusariicola** (Tuck.) Hafellner: on saxicolous *Pertusaria* **pleiosperma** Triebel: on *Lecanora caesiorubella* **polyspora** Triebel: on *Protoparmelia* **porphyrea** Hafellner & Kalb: on *Bacidia*,			**sp.** (W.R. Buck 60495a): nrLSU: KY661664; mtSSU: KY661689

	Brigantiaea and *Phyllopsora* **protothallina** (Anzi) Hafellner: on *Fuscopannaria* and *Parmeliella* **purpurascens** Triebel: on *Amygdalaria*, *Pilophorus* and *Porpidia* *pyrenaica* Etayo: over bryophytes, perhaps associated with *Mycobilimbia pilularis* **rhyparizae** Arnold: on *Bryodina rhipariza* **rimulicola** (Müll. Arg.) Hafellner: on *Lecanora* and ?*Pertusaria* **rinodinicola** Alstrup & D. Hawksw.: on *Rinodina turfacea* **rostrupii** Alstrup: on *Lepra dactylina* **saxatilis** (Schaer.) Hafellner: on *Ochrolechia* and *Pertusaria* **saxatilis** var. **laureri** Hafellner: on *Pertusaria* **suburceolata** Coppins & Fryday: on a whitish-yellowish muscicolous crustose lichen **tegularum** (Arnold) Hafellner: on *Caloplaca* **urecolata** (Th. Fr.) Arnold: on *Protothelenella sphinctrinoides*			
Microcaliciaceae				
Microcalicium	**arenarium** (A. Massal.) Tibell: on *Psilolechia* **conversum** Tibell: on *Calicium* and *Chaenotheca* **disseminatum** (Ach.) Vain.: on *Calicium* and *Chaenotheca*	Clauzade et al. 1989 Hawksworth 1981 Tibell 1978		**arenarium** (Wedin 8/5 2011): ITS: JX000107; nrLSU: JX000091; *RPB1*: JX000140; mtSSU: JX000127 **disseminatum** (Prieto 3053): nrLSU: JX000092; *MCM7*: JX000171 **disseminatum** (Wedin 6353): nrSSU: JX000071; *RPB1*:

				JX000146; mtSSU: JX000128
Myxotrichaceae				
Myxotrichum	**bicolor** (Ehrenb.) Fr.: on *Usnea*	Hawksworth 1979a		
Obryzaceae				
Obryzum	**corniculatum** (Hoffm.) Wallr.: on *Leptogium* **friesii** (Keissl.) Nik. Hoffm. & Hafellner: on *Leptogium* **striguloides** Aptroot & Sipman: on *Agonimia vouauxii*	Aptroot & Sipman 2001 Hoffmann & Hafellner 2000		
Protothelenellaceae				
Protothelenella	**pseudocyphellariae** Etayo: on *Pseudocyphellaria* **santessonii** H. Mayrh.: on *Cladonia*	Etayo & Sancho 2008 Mayrhofer 1987 Pino-Bodas et al. 2017		**santessonii** (J. Kokourková et al. s.n.): ITS KY661626; nrLSU: KY661657; nrSSU: KY661698; mtSSU: KY661679 **santessonii** (J. Kokourková et al. s.n.): ITS KY661627; nrLSU: KY661658; nrSSU: KY661699
Strigulaceae				
Strigula	**dichosporidii** Etayo: on *Dichosporidium*	Etayo 2002		
Thelocarpaceae				
Thelocarpon	**cyaneum** Olech & Alstrup: on '*Polyblastia* cf. *gothica*' **epibolum** Nyl.: facultative lichenicolous on *Baeomyces*, *Lichenomphalia hudsoniana*, *Peltigera* and *Solorina* **epibolum** var. **epithallinum** (Leight.) G. Salisb.: facultative lichenicolous on *Baeomyces*, *Catapyrenium*. *Peltigera* and *Solorina* **lichenicola** (Fuckel) Poelt & Hafellner: facultative lichenicolous on *Baeomyces*,	Olech & Alstrup 1990 Rambold & Triebel 1992		*lichenicola* (THLI1450): nrLSU: JN206661; mtSSU: JN206653

	Peltigera and *Solorina*			
Genera incertae sedis				
Brackelia	**lunkei** Zhurb.: on *Cladonia*	Zhurbenko & Pino-Bodas 2017		
Gyrophthorus	**crustulosae** (Creveld) Hafellner & Sancho: on *Umbilicaria* **gracilis** Nik. Hoffm. & Hafellner: on *Umbilicaria* **perforans** Hafellner & Sancho: on *Umbilicaria*	Hafellner & Sancho 1990 Hoffman & Hafellner 2000		
Hymenobia	**insidiosa** Nyl.: on *Lecidea*	Eriksson & Hawksworth 1991 Triebel 1989 (as *Hymenobiella aporea*)		
Hypotrachynicola	**rubra** Etayo: on *Hypotrachyna*	Etayo 2002		
Neolamya	**ahtii** Zhurb.: on *Cladonia* **peltigerae** (Mont.) Theiss. & Syd.: on *Peltigera* (mainly *P. didactyla*) **xanthoparmeliae** Kocourk.: on *Xanthoparmelia conspersa*	Keissler 1930 Kocourková 2009 Zhurbenko & Pino-Bodas 2017		
Pleosphaeria	**lichenothricis** Henssen: on *Lichenothrix ridlei*	Henssen 1964		
Pygmaeosphaera	**coccocarpiae** (Diederich) Etayo & Diederich: on *Coccocarpia* **epigraphis** Etayo: on *Graphis* **sipmaniana** Etayo: on *Parmeliella*	Etayo 2017		
Rhynchomeliola	**lichenicola** Henssen & Kantvilas: on *Wawea*	Henssen & Kantvilas 1985		
Sarcoexcipula	**pannariae** Etayo: on *Pannaria pallida*	Etayo & Sancho 2008		
Sphaeria	**sociella** Nyl.: on *Trapelia coarctata*	Triebel 1989		
Stellifraga	**cladoniicola** Alstrup & Olech: on *Cladonia*	Alstrup & Olech 1993		
Viridiannula	**pertusariae** Etayo: on *Pertusaria pertusa*	Etayo 2002b		
Zwackhiomacromyces	**constrictocarpus** Etayo & van den Boom: on *Megalospora verrucosa*	Alstrup & Hawksworth 1990 van den Boom & Etayo 2014		

	hyalosporus (Alstrup, D. Hawksw. & R. Sant.) Etayo & F. Berger: on *Placopsis*			

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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				
Anamorphic Ascomycota				
Acaroconium	**punctiforme** Kocourk. & D. Hawksw.: on *Acarospora* and *Sarcogyne*	Kocourková & Hawksworth 2008		
Acarosporium	**lichenicola** Ihlen & Tønsberg: on *Icmadophila*	Ihlen 1998		
Acremonium	[see under Hypocreales]			
Ampullifera	[see under *Teratoschaeta*]			
Arborillus	**llimonae** Munt.-Cvet. & Gómez-Bolea: on **Diploschistes**	Muntañola-Cvetkovic & Gómez-Bolea 1998		
Ascochyta	[see under Pleosporales]			
Asteroglobulus	**giselae** Brackel: on *Ramalina farinacea*	Brackel 2011a		
Asterophoma	**mazaediicola** D. Hawksw.: on *Calicium*	Hawksworth 1981 Tibell 1991a		
Bachmanniomyces s. lat.	**pseudocyphellariae** Etayo: on *Pseudocyphellaria* **santessonii** Etayo: on *Sticta* [*uncialicola* (Zopf) D. Hawksw.: see under Ostropomycetidae incertae sedis]	Etayo 2010b Etayo & Sancho 2008		
Berkleasmium	[see under Pleosporales]			
Bicoloromyces	**kyffinensis** Heuchert, U. Braun & D. Hawksw.: on *Lecanora fuscobrunnea* or	Heuchert et al. 2015		

	Lecidella			
Briancoppinsia	[see under Arthoniales]			
Calongeomyces	**gibelluloides** (D. Hawksw. & Etayo) D. Hawksw. & Etayo: on *Cladonia* and *Flavoparmelia caperata*	Hawksworth & Etayo 2010 Hawksworth & Etayo 2011		
Caeruleoconidia	**biazrovii** Zhurb.: on *Cladonia* **ochrolechiae** Zhurb. & Diederich: on *Ochrolechia*	Zhurbenko et al. 2015a Zhurbenko & Pino-Bodas 2017		
Carnegieispora	**rimeliae** Etayo & F. Berger: on *Parmotrema*	Etayo & Berger 2009		
Cecidiomyces	**santessonii** U. Braun & Zhurb.: on *Stereocaulon*	Zhurbenko & Braun 2012		
Cephalosporiopsis	**epiparasitaster** Alstrup: on *Chaenothecopsis parasitaster*	Alstrup 1997		
Chalara	[see under Pezizellaceae]			
Choreospora	**tibellii** Constant. & R. Sant.: on foliicolous ?*Echinoplaca*	Constantinescu & Santesson 1987		
Cladoniicola	**irregularis** Etayo: on *Diploschistes diacapsis* **staurospora** Diederich, van den Boom & Aptroot: on *Cladonia*	Diederich et al. 2002a Etayo 2010c		
Cladophialophora	[see under Chaetothyriales]			
Cladosporium	[see under Capnodiales]			
Clauzadeomyces	**verrucosus** Diederich: on *Placopsis*	Diederich 1994		
Codonmyces	**lecanorae** Calat. & Etayo: on *Lecanora valesiaca*	Calatayud & Etayo 1999a		
Coniambigua	**phaeographidis** Etayo & Diederich: on *Phaeographis* s. lat. (incl. *Leiorreuma*)	Etayo & Diederich 1995		
Cornutispora	**ciliata** Kalb: on various lichens **herteliana** Knoph: on *Lecidella* **intermedia** Punith. & D. Hawksw.: on various lichens	Etayo 2010a Etayo 2017 Etayo & Diederich 1995 Gierl & Kalb 1993 Hawksworth 1976	**ciliata**: CBS 111093	

	lichenicola D. Hawksw. & B. Sutton: on various lichens **ophiurospora** Etayo: on *Lobariella* **pittii** D. Hawksw. & Punith.: on *Hypotrachyna* **pyramidalis** Etayo: on *Hypotrachyna* and *Parmotrema* **triangularis** Diederich & Etayo: on *Pertusaria pertusa*	Hawksworth 1981 Knoph 2004 Punithalingam 2003 Sutton 1980		
Corynespora	**laevistipitata** (M. S. Cole & D. Hawksw.) Heuchert & U. Braun: on *Graphis*, *Lecanora*, *Pertusaria* and *Phaeophyscia* **thorii** U. Braun, Zhurb. & Frisch: on *Lecanora*	Heuchert & Braun 2006 Zhurbenko et al. 2015d		
Deichmannia	**verrucosa** Alstrup & D. Hawksw.: on *Diploschistes*	Alstrup & Hawksworth 1990		
Dictyophrynella	**bignoniacearum** Bat. & Caval.: on foliicolous lichens	Hawksworth 1979a		
Dinemasporium	**strigosum** (Fr,) Sacc.: facultative lichenicolous on *Peltigera*	Miadlikowska & Alstrup 1995	**strigosum**: CBS (4 records); MUCL; VKM; UPSC; IMI; ARS (NRRL)	
Diplolaeviopsis	[see under Helotiales]			
Ellisembia	[see under Pleosporales]			
Endophragmiella	**franconica** Brackel & Markovskaja: on *Cladonia*, *Platismatia glauca* and *Hypogymnia physodes* **hughesii** D. Hawksw.: on *Lobaria pulmonaria* **stordeuriana** U. Braun, Zhurb., Diederich, Tsurykau & Heuchert: on *Cladonia*	Brackel & Markovskaja 2009 Hawksworth 1979a Zhurbenko et al. 2015d		
Epaphroconidia	**hawksworthii** Calat. & V. Atienza: on *Pertusaria pertusa*	Calatayud & Atienza 1995		
Epicladonia s. lat.	**lapponica** Ihlen: on *Pleopsidium*	Ihlen & Wedin 2005		

	chlorophanum [*sandstedei* (Zopf) D. Hawksw.: see under Leotiomycetes incertae sedis] [*simplex* D. Hawksw.: see under Pilocarpaceae] [*stenospora* (Harmand) D. Hawksw.: see under Pilocarpaceae]			
Epicoccum	[see under Pleosporales]			
Epithamnolia	**karatyginii** Zhurb.: on *Thamnolia*	Zhurbenko 2012		
Everniicola	**flexispora** D. Hawksw.: on *Evernia* and *Nephroma arcticum*	Hawksworth 1982a		
Feltgeniomyces	**dichotomus** Etayo & Calat.: on *Physcia* **luxemburgensis** Diederich: on *Lecidella* **physciae** Etayo & Breuss: on *Physcia* **uniseptatus** Diederich: on *Hypotrachyna*	Aptroot et al. 1997 Calatayud & Etayo 2001 Diederich 1990 Etayo & Breuss 1998		
Fenestroconidia	**caloplacae** Calat. & Etayo: on *Caloplaca*	Calatayud & Etayo 1999b		
Fusarium	[see under Hypocreales]			
Fusicladium	[see under Dothideomycetes incertae sedis]			
Gliocephalis	[see under Laboulbeniales]			
Gonatophragmium	**lichenophilum** F. Berger & U. Braun: on *Xanthoria parietina*	Berger et al. 2015		
Graphium	**aphthosae** Alstrup & D. Hawksw.: on *Peltigera* **samogiticum** Motiej. & Alstrup: over *Sarcosagium* and *Verrucaria*, possibly algicolous	Alstrup & Hawksworth 1990 Motiejūnaitė & Alstrup 2006		
Hainesia	**aeruginascens** Brackel: on *Platismatia* and *Hypogymnia* **atrolazulina** Etayo: on *Hypotrachyna* **brevicladoniae** Diederich & van den Boom: on *Cladonia* **bryonorae** Zhurb.: on *Bryonora*	Brackel 2009 Brackel 2014 Diederich & van den Boom 2013 Etayo 2017 Etayo & Diederich 1996a Zhurbenko 2013b Zhurbenko & Brackel 2013		

	lecanorae Brackel: on *Lecanora* **longicladoniae** Diederich & van den Boom: on *Cladonia* **peltigerae** Zhurb.: on *Peltigera* **pertusariae** Etayo & Diederich: on *Pertusaria* **xanthoriae** Brackel: on *Xanthoria*			
Hansfordiellopsis	[see under *Koordersiella* (Dothideomycetes incertae sedis)]			
Hawksworthiana	**peltigericola** (D. Hawksw.) U. Braun: on *Peltigera*	Braun 1988 Hawksworth 1980a		
Helicobolomyces	[see under *Arthonia cinnabarinula*]			
Henfellra	**muriformis** Halıcı, D. Hawksw., Z. Kocak. & M. Kocak.: on *Candelariella antennaria*	Hawksworth et al. 2016		
Hobsoniopsis	[see under Dothideomycetes incertae sedis]			
Illosporium	[see under *Pronectria* (Hypocreales)]			
Illosporiopsis	[see under Hypocreales]			
Intralichen	**baccisporus** D. Hawksw. & M. S. Cole: on *Caloplaca* and other lichens **christiansenii** (D. Hawksw.) D. Hawksw. & M. S. Cole: on *Candelariella* and other lichens **lichenicola** (M. S. Christ. & D. Hawksw.) D. Hawksw. & M. S. Cole: on *Candelariella* and other lichens **lichenum** (Diederich) D: Hawksw. & M. S. Cole: on various lichens	Diederich 1990 Hawksworth 1979a Hawksworth & Cole 2002	**christiansenii**: Cultures (as *Bispora christiansenii*) obtained by Hawksworth (1979) and Crittenden et al. (1995)	**christiansenii** (as Bispora christiansenii, IMI 227584): nrSSU: AM279680
Isthmoconidium	**bacidiicola** Etayo & F. Berger: on *Bacidia*	Etayo & Berger 2013		
Kalchbrenneriella	**cyanescens** (Kalchbr.) Diederich & M. S. Christ.: on *Usnea*	Diederich 2002		
Karsteniomyces	[see under *Scutula* (Lecanorales)]			
Katherinomyces	**aculeatae** Khodos., Gavrylenko &	Khodosovtsev et al. 2016		

	Klymenko: on *Cetraria aculeata*			
Keissleriomyces	**sandstedeanus** (Keissler) D. Hawksw.: on *Cladonia furcata*	Hawksworth 1981		
Laeviomyces	**pertusariicola** (Nyl.) D. Hawksw.: on *Pertusaria*	Hawksworth 1979a Zhurbenko & Otte 2012		
Lambinonia	**strigulae** (Elenkin & Woron.) Sérus. & Diederich: on foliicolous *Strigula*	Sérusiaux & Diederich 2005		
Lawalreea	**lecanorae** Diederich: on *Myriolecis persimilis*	Diederich 1990		
Leightoniomyces	**canariensis** Etayo & Pérez-Vargas: on crustose saxicolous lichens **phillipsii** (Berk. & Leight.) D. Hawksw. & B. Sutton: on *Steinia geophana* and *Thrombium epigaeum*, possibly algicolous	Hawksworth 1977a Hawksworth 1979a Pérez-Vargas et al. 2013		
Libertiella	[see under *Scutula* (Lecanorales)]			
Lichenobactridium	**pertusariae** Diederich & Etayo: on *Pertusaria pertusa*	Etayo & Diederich 1995		
Lichenoconium	[see under Lichenoconiales]			
Lichenodiplis	[see under Chaetothyriales]			
Lichenodiplisiella	**makarevichiae** S. Y. Kondr. & Kudratov: on *Teloschistes brevior*	Kondratyuk et al. 2002		
Lichenohendersonia	**squamarinae** Calat. & Etayo: on *Squamarina* **uniseptata** Etayo & Calatayud: on *Parmelina* **varians** Calat. & Etayo: on *Rhizoplaca*	Calatayud & Etayo 2001		
Lichenopenicillus	**versicolor** Etayo: on *Sticta and Leptogium*	Etayo 2017		
Lichenophoma	**haematommatis** Keissler: on *Haematomma*	Hawksworth 1981		
Lichenopuccinia	**poeltii** D. Hawksw. & Hafellner: on *Parmelia*	Hawksworth 1984		

Lichenostella	**hypotrachynae** Etayo & Calatayud: on *Hypotrachyna*	Calatayud & Etayo 1999a		
Lichenosticta	[see under Lecanorales incertae sedis]			
Microsphaeropsis	[see under Pleosporales]			
Milospium	**deslooveri** Diederich & Sérus.: probably not lichenicolous, but lichenized **graphideorum** (Nyl.) D. Hawksw.: lichenicolous on lichens with *Trentepohlia*, sometimes an independent lichen **lacoizquetae** Etayo & Diederich: on *Cladonia parasitica* **planorbis** Aptroot & Sipman: probably not lichenicolous, but lichenized	Aptroot & Sipman 2001 Crous et al. 2015 Etayo & Diederich 1996a Hawksworth 1975a Hawksworth 1979a Sérusiaux et al. 1999	**graphideorum**: CBS H-22271	**graphideorum** (CBS H-22271): ITS: KR873245
Minutoexcipula	**beaglei** Etayo: on *Lecanora* **calatayudii** V. Atienza: on *Hypogymnia* **mariana** V. Atienza: on *Pertusaria* **miniatoexcipula** R. C. Harris & Lendemer: on *Pertusaria*, mainly *P. epixantha* **tephromelae** V. Atienza, Etayo & Pérez-Ortega: on *Tephromela* **tuckerae** V. Atienza & D. Hawksw.: on corticolous *Pertusaria* **tuerkii** Hafellner: on *Pertusaria glomerata*	Atienza 2002 Atienza & Hawksworth 1994 Atienza et al. 2009 Etayo & Sancho 2008 Hafellner 1994a Lendemer et al. 2016		
Minutophoma	**chrysophthalmae** D. Hawksw.: on *Chrysothrix chrysophthalmae*	Hawksworth 1981		
Mixtoconidium	[see under Arthoniales incertae sedis]			
Monocillium	[see under *Niesslia*]	Hawksworth 1979		
Monodictys	[see under Dothideomycetes incertae sedis]			
Nigromacula	**uniseptata** (D. Hawksw.) D. Hawksw.: on *Hypotrachyna*	Etayo 2002		

Nigropuncta	**groenlandica** Alstrup: on crustose lichen **rugulosa** D. Hawksw.: on *Bellemerea*	Alstrup 1993a Hawksworth 1981 Hawksworth & Poelt 1986		
Patriciomyces	**valentinianus** D. Hawksw.: on *Physcia*	Cole & Hawksworth 2001		
Phaeoseptoria	**peltigerae** Punith. & Spooner: on *Peltigera horizontalis*	Punithalingam & Spooner 1997		
Phaeosporobolus	[see under Lichenostigmatales]			
Phoma s. lat.	**aggregata** Calat. & Etayo: on *Diploschistes ocellatus* **candelariellae** Z.Kocakaya & Halıcı: on *Candelariella aurella* **dubia** (Linds.) Sacc. & A. Trotter: on *Usnea* **epiphyscia** Vouaux: on *Phaeophyscia* **everniae** D. Hawksw.: on *Evernia prunastri* **fistulata** Etayo & Osorio: on *Concamerella fistulata* **fuliginosa** M. S. Cole & D. Hawksw.: on *Caloplaca trachyphylla* **grumantiana** Zhurb. & Diederich: on *Cladonia* **heterodermiae** S. Y. Kondr., L. Lökös & J.-S. Hur: on *Heterodermia* **lecanorina** Diederich: on *Lecanora expallens* **lobariae** Diederich & Etayo: on *Lobaria pulmonaria* [*lobariicola* Alstrup: on *Lobaria scrobiculata* is probably an anamorph of *Catillaria lobariicola*] **maculiformans** Ihlen: on *Dibaeis baeomyces* **melanohaleicola** D. Hawksw. & Earl.-Benn.: on *Melanohalea exasperata*	Alstrup 1997 Brackel 2011a Calatayud & Etayo 2001 Diederich 1986 Diederich et al. 2007 Earland-Bennett et al. 2006 Etayo & Diederich 1995 Etayo & Osorio (2004) Etayo & Sancho 2008 Hafellner & Wieser 2000 Halıcı et al. 2014 Hawksworth 1980b Hawksworth 1981 Hawksworth 1994 Hawksworth & Cole 2004 Ihlen 1998 Kocakaya et al. 2015 Kondratyuk et al. 2013 Martínez & Hafellner 1998 Oksner 2010 Zhurbenko 2012 Zhurbenko & Braun 2013		

	peltigerae (P. Karst.) D. Hawksw.: on *Peltigera* **pisutii** S. Y. Kondr., A. Lackovičová, E. Lisická & A. Guttová: on *Xanthomendoza ulophyllodes* **psoromatis** Zhurb. & U. Braun: on *Psoroma* **recepii** Halıcı & Candan: on *Caloplaca* gr. *cerina* **rozziana** Etayo: on *Pseudocyphellaria* **thamnoliae** Zhurb. *ad int.*: on *Thamnolia*			
Phyllosticta s. lat.	**galligena** F. Moreau: on *Parmotrema*	Moreau 1951		
Psammina	**inflata** Earl.-Benn. & D. Hawksw.: on *Lepraria* and corticolous algae **simplex** Earl.-Benn. & D. Hawksw.: on various corticolous lichens and algae **stipitata** D. Hawksw.: on various corticolous lichens and algae	Earland-Bennett & Hawksworth 1999a Hawksworth 1979a		
Pseudocercospora	[see under Capnodiales]			
Pseudorobillarda	[see under Dothideomycetes incertae sedis]			
Pseudoseptoria	[see under Dothideales]			
Pseudospiropes	**longipilus** (Corda) Hol.-Jech.: facultative lichenicolous on *Lepraria*	Braun et al. 2008		
Pycnopsammina	**lobariae** Diederich & Etayo: on *Lobaria pulmonaria*	Etayo & Diederich 1995		
Pyrenochaeta	[see under Pleosporales]			
Pyrenochaetopsis	[see under Pleosporales]			
Ramichloridium	[see under Capnodiales]			
Refractohilum	**achromaticum** (B. Sutton) D. Hawksw.: on *Pachyphiale* **galligenum** D. Hawksw.: on *Nephroma laevigatum*	Etayo & Sancho 2008 Hawksworth 1977a Hawksworth 1979a Roux et al. 1997		

	intermedium Cl. Roux & Etayo: on *Pachyphiale* **peltigerae** (Keissl.) D. Hawksw.: on *Peltigera* **pluriseptatum** Etayo & Cl. Roux: on *Pachyphiale*, possibly also on *Nephroma antarcticum*			
Rhabdospora	[see under Dothideomycetes incertae sedis]			
Sclerococcum	**acarosporae** S. Y. Kondr.: on *Acarospora* **aptrootii** Diederich: on *Fissurina dumastii* **areolatum** Etayo: probably on *Xylographa* **crassitunicatum** Zhurb., Diederich & U. Braun: on *Cladonia* **epicladonia** Zhurb.: on *Cladonia* **epiphytorum** Diederich: on *Varicellaria hemisphaerica* **gelidarium** Etayo & F. Berger: on *Placopsis* **griseosporodochium** Etayo: probably not lichenicolous, but lichenized **leuckertii** Diederich & P. Scholz: on *Buellia aethalea* **montagnei** Hafellner: on *Lecanora rupicola* **phyllobaeis** Etayo: on *Phyllobaeis* **serusiauxii** Boqueras & Diederich: on *Parmelina* **simplex** D. Hawksw.: on corticolous *Lepra* and *Pertusaria* **sipmanii** Diederich: on *Anomomorpha* cf. *roseola* **sphaerale** (Ach.) Fr.: on saxicolous *Pertusaria* [mainly *P. corallina*] **tephromelarum** Etayo & Calat.: on	Alstrup 1993a Berger 2000 Boqueras & Diederich 1993 Diederich 1990 Diederich 2015 Diederich & Scholz 1995 Diederich et al. 2013 Etayo 1995b Etayo 2017 Etayo & Calatayud 1998 Etayo & Sancho 2008 Hafellner 1996b Hawksworth 1975a Hawksworth 1979a Kondratyuk & Zelenko 2002 Zhurbenko & Pino-Bodas 2017	**sphaerale**: UAMH 4571; IMI 247000 **sphaerale**: Culture obtained by Hawksworth and Jones (1981)	**sphaerale** (Diederich 17279): nrLSU: JX081672 **sphaerale** (Diederich 17283): nrLSU: JX081673 **sphaerale** (Ertz 17425): nrLSU: JX081674

	Tephromela **verrucisporum** Alstrup: on *Bellemerea diamarta*			
Sessiliospora	**bicolora** D. Hawksw.: foliicolous lichens	Hawksworth 1979a		
Sphaeromma	[see under *Keratosphaera* (Dothideomycetes incertae sedis)]			
Spilodochium	[see under Venturiales]			
'Spilomium'	**auratum** Sm.: lichenized, facultative lichenicolous on *Dirina* spp.	Giovarini & Purwis 2009b		
Sporhaplus	[see under *Keratosphaera* (Dothideomycetes incertae sedis)]			
Sporidesmiella	**lichenophila** U. Braun & Heuchert: on *Ramalina stenospora* **physconiicola** Zhurb., U. Braun & Kobzeva: on *Physconia distorta*	Braun & Heuchert 2010 Zhurbenko et al. 2015d		
Sporidesmium	[see under Dothideomycetes incertae sedis]			
Stagonospora	**exasperatulae** Brackel: on *Melanohalea exasperatula*	Brackel 2009		
Stromatopogon	[see under Dothideomycetes incertae sedis]			
Stygiomyces	**galliformis** Coppins & S. Y. Kondr.: on *Pseudocyphellaria*	Coppins & Kondratyuk 1995		
Subhysteropycnis	[see under *Arthonia*]	Wedin & Hafellner 1998		
Taeniolella s. lat.	[see under Asterinales]			
Taeniolina	**scripta** (P. Karst) P. M. Kirk: facultative lichenicolous on corticolous lichens	Diederich 1989 Hawksworth 1979a	**scripta**: CBS 114441	
Talpapellis	**mahensis** Diederich, U. Braun & Ertz: on crustose lichen with *Trentepohlia* **peltigerae** Alstrup & M. S. Cole var. **peltigerae**: on *Peltigera venosa* **peltigerae** Alstrup & M. S. Cole var. **rossica** Heuchert, Zhurb. & U. Braun: on *Peltigera* spp.	Alstrup & Cole 1998 Diederich et al. 2017 Heuchert et al. 2014 Zhurbenko & Braun 2013 Zhurbenko et al. 2015c		

	solorinae Zhurb., Heuchert & U. Braun: on *Solorina crocea*			
Teratosperma	**anacardii** Hansf.: on foliicolous lichens **lichenicola** D. Hawksw.: on foliicolous lichens	Hawksworth 1979a		
Trichoconis	**hafellneri** U.Braun, Khodos., Darmostuk & Diederich: on *Athallia pyracea* and *Xanthoria parietina* **lichenicola** D. Hawksw.: on *Peltigera collina* **physciicola** Brackel: on *Physcia*	Brackel 2014 Braun et al. 2016 Hawskworth 1980b		
Trichothecium	[see under Hypocreales]			
Trimmatostroma s. lat.	**arctoparmeliae** Brackel & Schiefelbein: on *Arctoparmelia incurva* **cetrariae** Brackel: on *Cetraria islandica* **dendrographae** Diederich, Ertz, U. Braun & Heuchert: on *Dendrographa* **glebarum** Brackel: on *Flavoparmelia caperata* **hierrense** Diederich & Ertz: on *Arthonia endlicheri* **lecanoricola** Diederich, Etayo, U. Braun & Heuchert: on *Lecanora* **quercicola** Diederich, U. Braun & Heuchert: facultatively lichenicolous on sterile, corticolous, crustose lichens **umbilicariicola** Heuchert & U. Braun: on *Umbilicaria* **varicellariae** Heuchert & U. Braun: on *Varicellaria rhodocarpa*	Brackel 2015 Diederich et al. 2010a Heuchert & Braun 2014 Schiefelbein et al. 2017 Zhurbenko & Brackel 2013		
Vagnia	**cirriformis** D. Hawksw. & Miadl.: on *Peltigera*	Hawksworth & Miadlikowska 1997b		
Verrucaster	**lichenicola** Tobler: on *Cladonia*	Hawksworth 1981		

Verrucocladosporium	[see under Capnodiales]			
Vouauxiella	[*caloplacae* Alstrup: on *Caloplaca* =? *Lichenodiplis lecanorae*] **lichenicola** (Lindsay) Petrak & H. Sydow: on *Lecanora* **pithospora** (Cavalc. & Silva) B. Sutton: on foliicolous lichens **verrucosa** (Vouaux) Petrak & H. Sydow: on *Lecanora*	Alstrup 1993a Hawksworth 1981	**lichenicola**: Culture obtained by Crittenden et al. (1995)	
Xanthoriicola	[see under Teratosphaeriaceae]			
Xenophoma	[see under Phaeosphaeriaceae]			
Zevadia	**peroccidentalis** J. C. David & D. Hawksw.: on *Usnea*	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				
Chionosphaera	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		
Cyphobasidiales				
Cyphobasidiaceae				
Cyphobasidium	**hypogymniicola** (Diederich & Ahti)	Diederich 1996		**hypogymniicola** (AM76):

	Millanes, Diederich & Wedin: on *Hypogymnia* **usneicola** (Diederich & Alstrup) Millanes, Diederich & Wedin: on *Usnea* **spp.**: unnamed yeasts in the cortex of many macrolichens, especially in Parmeliaceae	Diederich & Christiansen 1994 Millanes et al. 2016a Spribille et al. 2016		nrLSU: KU587693 **hypogymniicola** (AM169): nrSSU: KU587705; ITS: KU587700; nrLSU: KU587694 **usneicola** (AM59): nrLSU: KU587695 **usneicola** (AM291): ITS: KU587701; nrLSU: KU587696 **usneicola** (AM280a): ITS: KU587702; nrLSU: KU587697 **usneicola** (AM230): ITS: KU587703; nrLSU: KU587698 **usneicola** (AM193): nrSSU: KU587706; ITS: KU587704; nrLSU: KU587699

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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				
TREMELLOMYCETES				
Filobasidiales				
Filobasidiaceae				
Heterocephalacria	**bachmannii** (Diederich & M. S. Christ.) Millanes & Wedin: on *Cladonia* **physciacearum** (Diederich) Millanes & Wedin: on *Heterodermia*, *Physcia* and *Physconia*	Diederich 1996 Liu et al. 2016		**bachmannii** (CO213): nrSSU: JN043560; ITS: JN053505; nrLSU: JN043612 **bachmannii** (AM72): nrSSU: JN043559; ITS: JN053506; nrLSU: JN043613 **physciacearum** (AM17): nrSSU:

				JN043561; ITS: JN053507; nrLSU: JN043614
Tremellales				
Tremellaceae				
Biatoropsis	**hafellneri** Millanes, Diederich, M. Westb. & Wedin: on *Usnea fragilescen* aggr., mainly *U. cornuta* **minuta** Millanes, Diederich, M. Westb. & Wedin: on *Usnea barbata* and *U. lapponica* **protousneae** Millanes, Diederich, M. Westb. & Wedin: on *Protousnea dusenii* **usnearum** Räsänen s. str.: on *Usnea* (incl. *U. flavocardia*, *U. florida/subfloridana*, *U. fragilescens*, *U. glabrescens*, *U.* cf. *krogiana* and *U. macaronesica*), in continental Europe so far only on *U. florida/subfloridana* **sp. A1**: on *Usnea* spp. **sp. E**: on *Protousnea magellanica* **sp. F**: on *Usnea* spp.	Diederich 1996 Diederich & Christiansen 1994 Millanes et al. 2014b Millanes et al. 2016b	**usnearum** s. lat.: CBS 110636 (sequence information indicates this strain is probably a contaminant); CBS 100997	**hafellneri** (AA10): nrSSU: JN043543; ITS: JN053489; nrLSU: JN043595 **hafellneri** (AM110): ITS: KJ404881; nrLSU: KJ437229; mtSSU: KJ437264 **hafellneri** (AM216): ITS: KX687729 **hafellneri** (AM299): ITS: KJ404880; nrLSU: KJ437226; mtSSU: KJ437262 **hafellneri** (AM398): ITS: KX687728 **hafellneri** (AM459): ITS: KX687727 **hafellneri** (AM461): ITS: KX687724 **hafellneri** (AM462): ITS: KX687723 **hafellneri** (AM463): ITS: KX687722 **hafellneri** (AM464a): ITS: KX687725 **hafellneri** (AM464b): ITS: KX687726 **minuta** (AA9): nrSSU: JN043540; ITS: JN053486; nrLSU: JN043592; mtSSU: KJ437248 **minuta** (AM137):ITS: KJ404869; nrLSU: KJ437214; mtSSU:

				KJ437251 **minuta** (AM155): ITS: KJ404867; nrLSU: KJ437212; mtSSU: KJ437247 **minuta** (AM168): ITS: KJ404870; nrLSU: KJ437215; mtSSU: KJ437252 **minuta** (AM172): ITS: KJ404866; nrLSU: KJ437211; mtSSU: KJ437246 **minuta** (AM212): ITS: KJ404871; nrLSU: KJ437216; mtSSU: KJ437253 **minuta** (AM229): ITS: KJ404868; nrLSU: KJ437213; mtSSU: KJ437250 **minuta** (AM635): ITS: KX687730 **minuta** (CO294): nrSSU: JN043541; ITS: JN053487; nrLSU: JN043593; mtSSU: KJ437249 **protousneae** (AM138): ITS: KJ404863; nrLSU: KJ437208; mtSSU: KJ437243 **protousneae** (AM139): ITS: KJ404862; nrLSU: KJ437207; mtSSU: KJ437242 **protousneae** (AM141): ITS: KJ404860; nrLSU: KJ437205; mtSSU: KJ437240 **protousneae** (AM142): ITS: KJ404864; nrLSU: KJ437209; mtSSU: KJ437244 **protousneae** (AM214): ITS: KJ404865; nrLSU: KJ437210;

				mtSSU: KJ437245 **protousneae** (AM215d): ITS: KJ404861; nrLSU: KJ437206; mtSSU: KJ437241 **usnearum** s. str. (AM171): ITS: KJ404879; nrLSU: KJ437225; mtSSU: KJ437261 **usnearum** s. str. (AM195): nrLSU: KJ437223; mtSSU: KJ437260 **usnearum** s. str. (AM196): ITS: KJ404878; nrLSU: KJ437224 **usnearum** s. str. (AM201): ITS: KJ404877; nrLSU: KJ437222; mtSSU: KJ437259 **usnearum** s. str. (AM202a): ITS: KJ404876; nrLSU: KJ437221; mtSSU: KJ437258 **usnearum** s. str. (AM203): ITS: KJ404875; nrLSU: KJ437220; mtSSU: KJ437257 **usnearum** s. str. (AM211): ITS: KJ404874; nrLSU: KJ437219; mtSSU: KJ437256 **usnearum** s. str. (AM218): ITS: KX687738 **usnearum** s. str. (AM222): ITS: KX687739 **usnearum** s. str. (AM297): ITS: KJ404873; nrLSU: KJ437218; mtSSU: KJ437255 **usnearum** s. str. (AM298): ITS: KJ404872; nrLSU: KJ437217; mtSSU: KJ437254 **usnearum** s. str. (AM460): ITS: KX687737

				usnearum s. str. (AM465): ITS: KX687736 **usnearum** s. str. (AM478): ITS: KX687735 **usnearum** s. str. (AM629): ITS: KX687733 **usnearum** s. str. (AM630): ITS: KX687734 **usnearum** s. str. (AM631): ITS: KX687731 **usnearum** s. str. (AM632): ITS: KX 687732 **sp. A1** (AM112): ITS: KJ404856; nrLSU: KJ437201; mtSSU: KJ437236 **sp. A1** (AM140a): ITS: KJ404855; nrLSU; KJ437200; nrSSU: KJ437269 **sp. A1** (AM143): ITS: KJ404857; nrLSU: KJ437202; mtSSU: KJ437237 **sp. A1** (AM144): ITS: KJ404858; nrLSU: KJ437203; nrSSU: KJ437270 **sp. A1** (AM190): ITS: KJ404853; nrLSU: KJ437198; mtSSU: KJ437233 **sp. A1** (AM191a): ITS: KJ404852; nrLSU: KJ437197 **sp. A1** (AM191b): mtSSU: KJ437232 **sp. A1** (AM192a): ITS: KJ404851; nrLSU: KJ437196 **sp. A1** (AM192b): mtSSU: KJ437231

				sp. A1 (AM217): ITS: KX687748 **sp. A1** (AM296): ITS: KJ404854; nrLSU: KJ437199; mtSSU: KJ437234 **sp. A1** (AM307): ITS: KJ404859 **sp. A1** (AM307): ITS: KJ404859; nrLSU: KJ437204; mtSSU: KJ437239 **sp. A1** (AM458a): ITS: KX687742 **sp. A1** (AM470): ITS: KX687747 **sp. A1** (AM471): ITS: KX687740 **sp. A1** (AM473): ITS: KX687746 **sp. A1** (AM475): ITS: KX687745 **sp. A1** (AM476): ITS: KX687743 **sp. A1** (AM477): ITS: KX687744 **sp. A1** (AM479): ITS: KX687741 **sp. E** (AM213a): ITS: KJ404882; nrLSU: KJ437227; mtSSU: KJ437265 **sp. F** (AM8): nrSSU: KJ437268 **sp. F** (AM10): ITS: KJ404884; nrSSU: KJ437267 **sp. F** (AM166): ITS: KJ404885; nrLSU: KJ437230 **sp. F** (AM295): ITS: KJ404883; nrLSU: KJ437228; mtSSU: KJ437266 **sp. F** (AM567): ITS: KX687749 **sp. F** (AM576): ITS: KX687750 **usnearum** (AM24): nrSSU: JN043542; ITS: JN053488; nrLSU: JN043594
Tremella	**anaptychiae** J. C. Zamora & Diederich: on *Anaptychia ciliaris*	Ariyawansa et al. 2015 Diederich 1996	**huuskonenii**: Cultures reported in Lindgren et al.	**anaptychiae** (AM130): ITS: KY950298; nrLSU: KY950301

	caloplacae (Zahlbr.) Diederich: on *Caloplaca* and *Xanthoria* **candelariellae** Diederich & Etayo: on *Candelariella* **celata** J. C. Zamora, Millanes, V. J. Rico & Pérez-Ortega: on *Ramalina fraxinea* **cephalodiicola** Diederich: on *Psoroma* **cetrariellae** Millanes, Diederich, M. Westb., Pippola & Wedin: on *Cetraria delisei* **cetrariicola** Diederich & Coppins: on *Tuckermannopsis* **christiansenii** Diederich: on *Physcia* **cladoniae** Diederich & M. S. Christ.: on *Cladonia* **coccocarpiae** Diederich: on *Coccocarpia* **coppinsii** Diederich & Marson: on *Platismatia* **dendrographae** Diederich & Tehler: on *Dendrographa* **diederichiana** Pérez-Ortega, Millanes, Wedin, V. J. Rico & J. C. Zamora: on *Lecidea* aff. *erythrophaea* **diploschistina** Millanes, M. Westb., Wedin & Diederich: on *Diploschistes* **dirinariae** Diederich, Millanes & Wedin: on *Dirinaria aegialita* **endosporogena** J. C. Zamora, Millanes, V. J. Rico & Pérez-Ortega: on *Lecanora carpinea* (apothecia) **everniae** Diederich: on *Evernia mesomorpha* **graphidastrae** Diederich: on *Graphidastra*	Diederich 2003 Diederich 2004d Diederich 2007a Diederich 2007b Diederich et al. 2014b Lindgren et al. 2015 Sérusiaux et al. 2003 Millanes et al. 2011 Millanes et al. 2012 Millanes et al. 2014a Millanes et al. 2015 Werth et al. 2013 Zamora et al. 2016 Zamora et al. 2017	(2015)	**anaptychiae** (AM493): ITS: KY950299; nrLSU: KY950302 **anaptychiae** (AM499; HOLOTYPE MAF-Lich): ITS: KY950297; nrLSU: KY950300 **caloplacae** (AM32): nrSSU: JN043525; ITS: JN053469; nrLSU: JN043574 **caloplacae** (AM31): ITS: JN053468; nrLSU: JN043573 **candelariellae** (AM34): nrSSU: JN043526; ITS: JN053470; nrLSU: JN043575 **celata** (AM371): ITS: KT334576; nrLSU: KT334588 **celata** (AM370): ITS: KT334577; nrLSU: KT334589 **cetrariicola** (AM111): nrSSU: JN043544; ITS: JN053490; nrLSU: JN043596 **cetrariicola** (AM123): nrSSU: JN043545; ITS: JN053491; nrLSU: JN043597 **christiansenii** (AM36): nrLSU: JN043577; **cladoniae** (AM84): nrSSU: JN043533; ITS: JN053478; nrLSU: JN043584 **cladoniae** (AM125): nrSSU: JN043532; ITS: JN053477; nrLSU: JN043583 **coppinsii** (AM38): nrSSU: JN043549; ITS: JN053495; nrLSU: JN043601 **coppinsii** (AM124): nrSSU: JN043550; ITS: JN053496;

	graphidis Diederich, Millanes & Wedin: on *Graphis* **haematommatis** Diederich: on *Haematomma* **harrisii** Diederich: on *Polymeridium* and *Trypethelium* **huuskonenii** Diederich, Myllys, Goward & Lindgren: hyperparasitic on *Raesaenenia huuskonenii* over *Bryoria* **hypocenomycis** Diederich: on *Hypocenomyce* **hypogymniae** Diederich & M. S. Christ.: on *Hypogymnia* **leptogii** Diederich: on *Leptogium* **lethariae**: on *Letharia vulpina* **lichenicola** Diederich: on *Mycoblastus fucatus* **lobariacearum** Diederich & M. S. Christ.: on *Lobaria* and *Pseudocyphellaria* **macrobasidiata** J. C. Zamora, Pérez-Ortega & V. J. Rico: on *Lecanora* **macroceratis** Diederich & Hafellner: on *Cladonia* **microcarpa** Diederich: on cf. *Megalospora* **monospora** Diederich: on *Leptogium* **montis-wilhelmii** Diederich: on *Normandina simodense* **nashii** Diederich: on *Usnea* **nephromatis** Diederich: on *Nephroma* **normandinae** Diederich: on *Normandina pulchella* **nieblae** Diederich: on *Niebla* **papuana** Diederich: on *Hypogymnia*			nrLSU: JN043602 **dendrographae** (AM39): ITS: JN053471; nrLSU: JN043576 **diederichiana** (AM374): ITS: KT334580; nrLSU: KT334592 **diederichiana** (AM378): ITS: KT334581; nrLSU: KT334593 **diploschistina** (Westberg & Berglund 09-400 TYPE): ITS: JN790586; nrLSU: JN790588 **diploschistina** (Westberg 09-452): ITS: JN790587; nrLSU: JN790590 **diploschistina** (Rosentreter 6836): ITS: JN790585; nrLSU: JN790589 **endosporogena** (AM375): ITS: KT334578; nrLSU: KT334590 **endosporogena** (AM376): ITS: KT334579; nrLSU: KT334591 **everniae** (AM1): nrSSU: JN043547; ITS: JN053493; nrLSU: JN043599 **haematommatis** (AM41): ITS: JN053510; nrLSU: JN043617 **huuskonenii** (Goward 05-03): ITS: KR857039; nrLSU: KR857103; nrSSU: KR857066 **huuskonenii** (Goward 12-04): ITS: KR857043; nrLSU: KR857075 **huuskonenii** (Urbanavichus 05-1270): ITS+nrLSU: KR857044 **huuskonenii** (Goward 12-02): ITS: KR857038; nrLSU: KR857102

	parmeliarum Diederich: on *Parmotrema* **parmeliellae** Diederich & Sérusiaux: on *Parmeliella* **pertusariae** Diederich: on *Pertusaria* **phaeographidis** Diederich, Coppins & Bandoni: on *Phaeographis* **phaeographinae** Diederich & Aptroot: on *Phaeographina* **phaeophysciae** Diederich & M. S. Christ.: on *Phaeophyscia* **protoparmeliae** Diederich & Coppins: on *Protoparmelia* **psoroglaenae** Diederich: on *Psoroglaena* **psoromicola** Diederich: on *Psoroma* **pyrenulae** Diederich, Millanes, Wedin & Common: on *Pyrenula* **ramalinae** Diederich: on *Ramalina* **rhizocarpicola** Diederich, Millanes & Wedin: on *Rhizocarpon* **rinodinae** Diederich & M. S. Christ.: on *Rinodina* **santessonii** Diederich: on *Usnea* **stevensiana** Diederich: on *Usnea* **stictae** Diederich: on *Dendriscocaulon* and *Sticta* **sulcariae** Diederich & M. S. Christ.: on *Sulcaria* **umbilicariae** Diederich & Millanes: on *Umbilicaria* **tuckerae** Diederich: on *Ramalina* **variae** Pérez-Ortega, Millanes, V. J. Rico & J. C. Zamora: on *Lecanora varia* **wirthii** Diederich: on *Protoparmelia*			**huuskonenii** (Myllys 040811-46): ITS: KR857029; nrLSU: KR857093 **huuskonenii** (Myllys 040811-44): ITS: KR857030; nrLSU: KR857094 **huuskonenii** (Hollinger 1859): ITS: KR857034; nrLSU: KR857098 **huuskonenii** (Goward s.n., S368S/S368): ITS: KR857060; nrLSU: KR857082; nrSSU: KR857067 **huuskonenii** (Goward 05-19): ITS: KR857056; nrLSU: KR857079; nrSSU: KR857068 **huuskonenii** (Goward 05-20): ITS: KR857055; nrLSU: KR857078; nrSSU: KR857069 **huuskonenii** (Goward 05-23): ITS: KR857054; nrLSU: KR857077 **huuskonenii** (Goward 11-79): ITS: KR857059; nrLSU: KR857081 **huuskonenii** (Goward 11-50): ITS: KR857031; nrLSU: KR857095 **huuskonenii** (Goward 11-52): ITS: KR857032; nrLSU: KR857096 **huuskonenii** (Goward 11-82): ITS: KR857036; nrLSU: KR857100 **huuskonenii** (Goward 10-11): ITS: KR857037; nrLSU:

				KR857101 **huuskonenii** (Goward 12-03, L402cS/L402c): ITS: KR857041; nrLSU: KR857105 **huuskonenii** (Goward 12-03, L402dS/L402d): ITS: KR857042; nrLSU: KR857106 **huuskonenii** (Goward 07-159): ITS+nrLSU: KR857058 **huuskonenii** (Goward 11-74): ITS: KR857035; nrLSU: KR857099 **huuskonenii** (Goward 12-03, L402aS/L402a): ITS: KR857040; nrLSU: KR857104 **huuskonenii** (Goward 06-531B, L345a): ITS: KR857013; nrLSU: KR857074 **huuskonenii** (Goward 06-531B, L345b): ITS: KR857014 **huuskonenii** (Myllys 060812-5): ITS: KR857053; nrLSU: KR857114 **huuskonenii** (Myllys 020712-43): ITS: KR857047; nrLSU: KR857076 **huuskonenii** (Goward 09-66): ITS: KR857057; nrLSU: KR857080 **huuskonenii** (Högnabba & Lindgren 010610-52): ITS: KR857015; nrLSU: KR857083 **huuskonenii** (Myllys 060710-14): ITS+nrLSU: KR857019 **huuskonenii** (Myllys 060710-85): ITS: KR857021; nrLSU:

				KR857087 **huuskonenii** (Högnabba & Lindgren 210611-3): ITS: KR857024; nrLSU: KR857088 **huuskonenii** (Myllys 070711-16): ITS: KR857025; nrLSU: KR857089 **huuskonenii** (Myllys 290711-48): ITS: KR857026; nrLSU: KR857090 **huuskonenii** (Myllys 040811-26, HL379aS/HL379a): ITS: KR857027; nrLSU: KR857091 **huuskonenii** (Myllys 040811-26, HL379bS/HL379b): ITS: KR857028; nrLSU: KR857092 **huuskonenii** (Myllys 030812-2, HL1254bS/HL1254b): ITS: KR857048; nrLSU: KR857109 **huuskonenii** (Myllys 020712-3, HL1106S/HL1106): ITS: KR857045; nrLSU: KR857107 **huuskonenii** (Myllys 020712-6, HL1109S/HL1109): ITS: KR857046; nrLSU: KR857108 **huuskonenii** (Myllys 030812-3, HL1255bS/HL1255b): ITS: KR857049; nrLSU: KR857110 **huuskonenii** (Myllys 030812-3, HL1255cS/HL1255c): ITS: KR857050; nrLSU: KR857111 **huuskonenii** (Myllys 060812-1, HL1257aS/HL1257a): ITS: KR857051; nrLSU: KR857112 **huuskonenii** (Myllys 060812-4, HL1259S/HL1259): ITS:

				KR857052; nrLSU: KR857113 **hypogymniae** (AA7): nrSSU: JN043538; ITS: JN053484; nrLSU: JN043590 **hypogymniae** (AM122): nrSSU: JN043539; ITS: JN053485; nrLSU: JN043591 **leptogii** (AM81): nrSSU: JN043531; ITS: JN053476; nrLSU: JN043582 **lichenicola** (AM18): nrSSU: JN043558; ITS: JN053504; nrLSU: JN043611 **lobariacearum** (AM80): nrSSU: JN043528; ITS: JN053473; nrLSU: JN043579 **lobariacearum** (AM118): nrSSU: JN043529; ITS: JN053474; nrLSU: JN043580 **macrobasidiata** (AM452-TYPE): ITS: KT334582; nrLSU: KT334594 **macrobasidiata** (AM453): ITS: KT334583; nrLSU: KT334595 **nephromatis** (AM133): nrSSU: JN043530; ITS: JN053475; nrLSU: JN043581 **parmeliarum** (AM120): nrSSU: JN043565; ITS: JN053511; nrLSU: JN043618 **pertusariae** (AM2): nrSSU: JN043548; ITS: JN053494; nrLSU: JN043600 **phaeophysciae** (AM98): ITS: JN053479; nrLSU: JN043585 **phaeophysciae** (AM121):

				nrSSU: JN043534; ITS: JN053480; nrLSU: JN043586 **ramalinae** (AM15): nrSSU: JN043567; ITS: JN053513; nrLSU: JN043620 **ramalinae** (AM126): nrSSU: JN043566; ITS: JN053512; nrLSU: JN043619 **tuckerae** (AM89-TYPE): nrSSU: JN043536; ITS: JN053482; nrLSU: JN043588 **tuckerae** (AM372): ITS: KT334584; nrLSU: KT334596 **tuckerae** (AM373): ITS: KT334585; nrLSU: KT334597 **umbilicariae** (Santesson & Moberg P62:55-TYPE): ITS: KM507564 **variae** (AM379): ITS: KT334586; nrLSU: KT334598 **variae** (AM377): ITS: KT334587; nrLSU: KT334599 **wirthii** (AM90): nrSSU: JN043546; ITS: JN053492; nrLSU: JN043598
Tremellomycetes incertae sedis				
Heteroacanthella	**ellipsospora** J. C. Zamora, Pérez-Ortega & V. J. Rico: on *Lecanora carpinea*	Zamora et al. 2014		
'Syzygospora'	**parmeliicola** Diederich: on *Hypotrachyna*	Diederich 1996		

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	Species	**Significant literature**	Cultures (with accession	Sequences (with accession	Notes

	(**lichenicolous fungi in bold**; *lichenicolous lichens or facultative lichenicolous fungi in italics*)		numbers when known; **culture collection links**)	numbers)	
Phylum BASIDIOMYCOTA R.T.Moore					
Subphylum AGARICOMYCOTINA Doweld					
Class AGARICOMYCETES Doweld					
Subclass AGARICOMYCETIDAE Loqu. ex Parmasto					
Order **Agaricales** Underw.					
Family **Hygrophoraceae** Lotsy					
Arrhenia Fr.; type: *A. auriscalpia* (Fr.) Fr. (bryotrophic)	**peltigerina** (Peck) Redhead, Lutzoni, Moncalvo & Vilgalys: on *Peltigera*	Barrasa & Rico 2010 Collin & Lauron 1994 Garnier-Delcourt 2008 Orton 1977 Redhead et al. 2002 Santesson 1993a			> 40 species (mainly bryophylous or phycophilous, 1 lichenicolous). Mol.: yes (incl. type and lichenicolous). Sexual.
Family **Tricholomataceae** Lotsy					
Gamundia Raitelh.; type: *G. pseudoclusilis* (Joss. & Konrad) Raitelh. (saprotrophic) [possibly a synomym of *G. striatula* (Kühner) Raitelh.]	*leucophylla* (Fr.) H. E. Bigelow: doubtfully lichenicolous on moribund *Peltigera* cf. *leucophlebia* **striatula** (Kühner) Raithelh.: on *Cladonia* and *Peltigera* *xerophila* (Lüthi & Röllin) Raithelh.: doubtfully lichenicolous on *Peltigera*	Alstrup & Hawksworth 1990 Barrasa & Rico 2010 Moreau 2005		*leucophylla* (p672L): ITS + nrLSU: EU669424; *leucophylla* (p672i): ITS: EU669382 *leucophylla* (DAOM192749): nrLSU: AF261375	C. 10 species (1 at least facultative lichenicolous, 2 doubtfully lichenicolous). Mol.: yes (one saprotrophic species). Sexual.
Order **Atheliales** Jülich					

Family **Atheliaceae** Jülich					
Athelia Pers.; type: *A. epiphylla* Pers. (saprotrophic, facultative lichenicolous)	*alnicola* (Bourd. & Galz.) Jülich: facultative lichenicolous **arachnoidea** (Berk.) Jülich: on various lichens *epiphylla* Pers.: facultative lichenicolous *salicum* 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): 5.8S: U85792 **arachnoidea** (CCFC 212; 211; 210): 5.8S: U85791	C. 100 species (1 lichenicolous, 3 facultative lichenicolous, 1 lichenized). Mol.: yes (incl. type and lichenicolous). Sexual and asexual (sclerotia-forming).
Order **Boletales** E.-J.Gilbert					
Family **Coniophoraceae** Ulbr.					
Leucogyrophana Pouzar; type: *L. mollusca* (Fr.) Pouzar (saprotrophic)	**lichenicola** Thorn, Malloch & Ginns: on *Cladonia* and *Stereocaulon*	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	> 10 species (1 lichenicolous). Mol.: yes (type and lichenicolous). Sexual and asexual (sclerotia-forming).
Order **Corticiales** K.H.Larss.					
Family **Corticiaceae** Herter					
Erythricium J.Erikss. & Hjortstam; type: *E. laetum* (P.Karst.) J.Erikss. & Hjortstam (saprotrophic) [= *Marchandiobasidium* Diederich & Schultheis; type: *M. aurantiacum* Diederich & Schultheis]	**aurantiacum** (Lasch) D. Hawksw. & A. Henrici: on *Physcia* and rarely other lichens	Diederich 1990 Diederich et al. 2003 Diederich & Lawrey 2007 Hawksworth & Henrici 2015 Lawrey et al. 2008	**aurantiacum**: ATCC MYA-2502 **aurantiacum**: CBS 718.97	**aurantiacum** (ATCC MYA-2502): nrSSU: DQ915460; nrLSU: AY583330; ITS: AY583324 **aurantiacum** (CBS 718.97): nrLSU: AY583330; nrSSU: AF289661	7 species (1 lichenicolous). Mol.: yes (type and lichenicolous). Sexual and asexual (bulbil-forming).
Laetisaria Burds.; type: *L. fuciformis* (McAlpine) Burds. (graminicolous)	**lichenicola** Diederich, Lawrey & Van den	Diederich et al. 2011a	**lichenicola**: CBS 128705 (TYPE CULTURE)	**lichenicola** (CBS 128705): ITS + nrLSU: HQ168400; nrSSU:	4 species (1 lichenicolous). Mol.: yes (incl. type and

	Broeck: on *Physcia*			HQ168399	lichenicolous). Sexual, rarely asexual.
Lawreymyces Lücking & Moncada; type: *L. palicei* Lücking & Moncada (endolichenic)	**bogotensis** Lücking & Moncada: endolichenic in *Normandina* sp. **columbiensis** Lücking & Moncada: endolichenic in *Normandina columbiensis* **confusus** Lücking & Moncada: endolichenic in *Normandina* aff. *columbiensis* **foliaceae** Lücking & Moncada: endolichenic in *Agonimia foliacea* **palicei** Lücking & Moncada: endolichenic in *Agonimia foliacea* **pulchellae** Lücking & Moncada: endolichenic in *Normandina pulchella* **spribillei** Lücking & Moncada: endolichenic in *Agonimia foliacea*	Lücking & Moncada 2017		**bogotensis** (MON4947): ITS: MF070062 **columbiensis** (MON4716a): ITS: MF070060 **confusus** (MON4710a): ITS: MF070057 **foliaceae** (MON1683): ITS: MF070054 **palicei** (Palice 4369): ITS: AY542865 **pulchellae** (MON5232): ITS: MF070063 **spribillei** (MON0779): ITS: MF070056	7 species (endolichenic). Mol.: yes (all species). Sexual, asexual, hyphal and yeast stages unknown.

Marchandiomyces Diederich & D.Hawksw.; type: *M. corallinus* (Roberge) Diederich & D.Hawksw.	**buckii** Diederich & Lawrey: on various lichens **corallinus** (Roberge) Diederich & D. Hawksw.: on various lichens	Diederich & Lawrey 2007 Etayo & Diederich 1996a Hawksworth 1979a Lawrey et al. 2007 Sikaroodi et al. 2001	**buckii**: ATCC MYA-2992 TYPE CULTURE **corallinus**: CBS 110635 **corallinus**: ATCC 200796 **corallinus**: ATCC 200797 **corallinus**: (JL128-98, M.S. Cole 7500, culture lost) **corallinus**: ATCC MYA-1118 **corallinus**: ATCC MYA-1119 **corallinus**: ATCC MYA-1120 **corallinus**: ATCC MYA-1121 **corallinus**: ATCC MYA-1377 **corallinus**: ATCC MYA-1378 **corallinus**: ATCC MYA-1379 **corallinus**: ATCC MYA-1380 **corallinus**: ATCC MYA-2346 **corallinus**: ATCC MYA-2498 **corallinus**: ATCC MYA-2499 **corallinus**: ATCC MYA-2500 **corallinus**: ATCC MYA-2501 **corallinus**: ATCC MYA-2827 **corallinus**: ATCC MYA-2828 **corallinus**: ATCC MYA-2829 **corallinus**: ATCC MYA-2830 **corallinus**: ATCC MYA-3182 **corallinus**: ATCC MYA-3183 **corallinus**: ATCC MYA-3184 **corallinus**: ATCC MYA-3673 **corallinus**: ATCC MYA-4211	**buckii** (ATCC MYA-2992): nrLSU: DQ915472; nrSSU: DQ915462 **corallinus** (ATCC 200796): nrSSU: AF289660; ITS: AY583325 **corallinus** (JL128-98): nrLSU: AY583331; ITS: AY583326 **corallinus** (ATCC MYA-1118): ITS: AY583326 **corallinus** (ATCC MYA-2346): nrSSU: DQ915457 **corallinus** (ATCC MYA_2500): nrSSU: DQ915459 **corallinus** (ATCC MYA-3182): nrSSU: DQ915464	5 species (2 lichenicolous). Mol.: yes (all species). Asexual (bulbil-forming). Closely related to *Laetisaria*.
Order **Cantharellales** Gäum.					
Order Cantharellales genera incertae sedis					
Adamflakia Diederich & Lawrey; type: *Bulbilla applanata* Diederich, Flakus & Etayo [= *Bulbilla*	**applanata** Diederich & Lawrey: on Peltigerales	Diederich et al. 2014a Lawrey et al. 2016		**applanata** (Flakus 16422-HOLOTYPE): ITS: KC336078	1 species. Mol.: yes. Asexual (bulbil-forming).

Diederich, Flakus & Etayo; type: *B. a.*]	[=*Bulbilla applanata* Diederich, Flakus & Etayo]			**applanata** (Flakus 16424): ITS: KC336079	
Burgella Diederich & Lawrey; type: *B. flavoparmeliae* Diederich & Lawrey	**flavoparmeliae** Diederich & Lawrey: on *Flavoparmelia baltimorensis* *lutea* Diederich, Capdet, A. I. Romero & Etayo: facultative lichenicolous over various lichens	Lawrey et al. 2007 Diederich & Lawrey 2007 Diederich et al. 2014a	**flavoparmeliae**: ATCC MYA-2157 TYPE CULTURE	**flavoparmeliae** (ATCC MYA-2157): nrLSU: DQ915469; nrSSU: DQ915455 *lutea* (Etayo 27623): ITS: KC336076; nrLSU: KC336075	2 species (1 lichenicolous, 1 facult. lichenicolous). Mol.: yes (all species). Asexual (bulbil-forming).
Burgellopsis Diederich & Lawrey; type: *B. nivea* Diederich & Lawrey	**nivea** Diederich & Lawrey: on sterile, crustose lichen	Diederich et al. 2014a	**nivea:** ATCC MYA-4209 TYPE CULTURE	**nivea** (ATCC MYA-4209): nrLSU: KC336077	1 species. Mol.: yes. Asexual (bulbil-forming).
Burgoa Goid.; type: *B. verzuoliana* Goid. (saprotrophic)	**angulosa** Diederich, Lawrey & Etayo: on various lichens	Lawrey et al. 2007 Diederich & Lawrey 2007	**angulosa**: ATCC MYA-1121 TYPE CULTURE	**angulosa** (ATCC MYA-1121): nrLSU: AY756069; nrSSU: AY756076; mtSSU: AY756072	At least 7 species (1 lichenicolous). Mol.: yes (incl. type and lichenicolous species). Asexual (bulbil-forming). Related to *Sistotrema* Fr. s. lat. (sexual)
Ceratobasidium D.P. Rogers; type: *C. calosporum* S.P.Rogers (saprotrophic)	**bulbillifaciens** Diederich & Lawrey: on various lichens	Diederich et al. 2014a	**bulbillifaciens:** ATCC 208870; CBS 129339, CBS 132236	**bulbillifaciens** (CBS 129339): nrLSU: KC336073 **bulbillifaciens** (CBS 132236): nrLSU: KC336071; ITS: KC336072 **bulbillifaciens** (ATCC 208870): nrLSU: DQ915470	> 10 species (1 lichenicolous). Sexual and asexual (sclerotia/bulbil-forming)
Minimedusa Weresub & P.M.LeClair; type: *M. polyspora* (Hotson) Weresub & P.M.LeClair (saprotrophic)	**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	3 species (1 lichenicolous). Mol.: yes (all species). Asexual (bulbil-forming).
Neoburgoa Diederich, E.Zimm. & Lawrey; type: *N. freyi* Diederich, E.Zimm. & Lawrey	**freyi** Diederich, E. Zimm. & Lawrey: on *Cladonia rangiferina*	Lawrey et al. 2016		**freyi** (E. Zimmermann 1256-HOLOTYPE): ITS + nrLSU: KX423756	1 species. Mol.: yes. Asexual (bulbil-forming).