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A worldwide list of endophytic fungi with notes on ecology and diversity

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Abstract

Endophytic fungi are symptomless internal inhabits of plant tissues. They are implicated in the production of antibiotic and other compounds of therapeutic importance. Ecologically they provide several benefits to plants, including protection from plant pathogens. There have been numerous studies on the biodiversity and ecology of endophytic fungi. Some taxa dominate and occur frequently when compared to others due to adaptations or capabilities to produce different primary and secondary metabolites. It is therefore of interest to examine different fungal species and major taxonomic groups to which these fungi belong for bioactive compound production. In the present paper a list of endophytes based on the available literature is reported. More than 800 genera have been reported worldwide. Dominant genera are *Alternaria, Aspergillus, Colletotrichum, Fusarium, Penicillium,* and *Phoma*. Most endophyte studies have been on angiosperms followed by gymnosperms. Among the different substrates, leaf endophytes have been studied and analyzed in more detail when compared to other parts. Most investigations are from Asian countries such as China, India, European countries such as Germany, Spain and the UK in addition to major contributions from Brazil and the USA.

Key Words – Checklist **–** Continents **–** Diversity **–** Foliar endophytes **–** Geographical distribution **–** Host distribution – Substrate preference

Introduction

Definition

The term ‘endophyte’ was introduced by Bary in 1866 (De Bary 1886), as any organism inhabiting a living tissue. There are many definitions that have been provided for endophytic fungi and one of the most widely accepted has been that of Petrini (1991), who also coined the term “endophytes”, as “All organisms inhabiting plant organs at some time in their life that can colonize internal plant tissues without causing apparent harm to the host.” Bacon & White (2000), define endophytes as “microbes that indwell living, internal tissues of host plants without causing any immediate, overt negative effects.” Hyde & Soytong (2008) reviewed various definitions of endophytes proposed by several researchers.

Ecology of endophytes

Recovery of endophytes from hosts of divergent ecological habitats such as xeric to arctic,

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temperate to tropical forests, grasslands to croplands and savannahs, have been discussed. A range of different hosts has been examined for endophytic fungi starting from mosses to ferns, non–vascular to vascular plants, seedless to flowering plants (Arnold 2008, Rodriguez et al. 2009). The universal presence of endophytes in flora of diverse ecosystems is a well–established fact. For example, algae (Hawksworth 1988), mosses (Schulz et al. 1993), pteridophytes (equisetopsids, ferns, lycophytes) (Fisher 1996), conifers (Bernstein & Carroll 1977, Legault et al. 1989) and angiosperms (monocots and dicots), including palms (Rodrigues 1996, Fröhlich & Hyde 1999), grasses (Clay 1989), and various dicotyledonous shrubs (Petrini et al. 1982) and trees (Faeth & Hammon 1997). The tropical host plants have also been investigated for endophytic fungal communities but the temperate host plants remain the most explored ones (Verma et al. 2017).

Importance of endophytic fungi

The role of endophytes has been much debated with grass–inhabiting category (Clavicipitales), which have been better understood than non–grass endophytes. Some of the roles of non–grass endophytes that have been attributed to them as mutualists include decreased herbivory, increased drought resistance, increased disease resistance and enhancement of plant growth (Hyde & Soytong 2008). Many endophytes in leaves and woody tissues are considered as host, host genus or host family-specific (Arnold 2007) and such a specificity seems to depend on factors such as initial endophyte colonization and/or substances within leaves and wood (Paulus et al. 2006, Arnold 2007, Hyde 2007, Hyde & Soytong 2008). The fate of endophytes has been shown to turn into either saprophytes or latent pathogens, and this depends largely upon different environmental factors (e.g. Promputtha et al 2007, Jeewon et al 2017, 2018). Screening of endophytes for novel compounds led to the discovery of thousands of metabolites with different kinds of biological activities. The trigger for a large–scale interest to screen endophytic fungi came from the fact that they could mimic the structure and function of host compounds (Strobel 2002). The reason for a higher number of bioactive compounds found in endophytes is that the diversity of endophytes is high and endophytes are relatively fast growing on artificial media (Strobel 2002, Gouda et al. 2016, Nair & Padmavathy 2014). By producing these compounds endophytic fungi ensure plants a better growth and sustainability within the hosts and protect them from herbivory and harsh environmental conditions, thus exhibiting mutualistic relationships (Dudeja et al. 2012, Das & Varma 2009, Gouda et al. 2016, Nair & Padmavathy 2014).

Methods employed to study endophytic fungi

Due to their cryptic presence within the healthy host tissues, it is difficult to visualize their symptoms or reproductive structures. Their hyphae can rarely be observed inside, and lack any identifying characteristics (Arnold 2008). The methods to study and isolate endophytes, particularly surface sterilization, influence the diversity of endophytic fungi. Thick leaves require more exposure to surface sterilizing agents and thin leaves less exposure. Any flaw in surface sterilization allows propping of an unduly large number of species belonging to *Aspergillus*, *Cladosporium*, *Penicillium* (Hyde & Soytong 2008). Sample size and/or sampling effort can also greatly influence species richness because small sample sizes may underestimate the differences in endophytic mycocommunities among different sites (Connolly 2005, Mazaris et al. 2008, Walther & Moore 2005). Sampling a particular host species but from different geographical sites resulted a higher endophytic fungal diversity when compared to within the site and the rich diversity observed had correlation with temperature and rainfall as important environmental parameters (Zimmerman & Vitousek 2012). The diversity of endophytic fungal communities among different host species varies with distinct geographic locations and hosts. Similarly, diversity also varies within different types of tissues and organs of a particular host e.g. leaves, inflorescence, stem and roots (Collado et al. 1999, Kumar & Hyde 2004, Saikkonen 2007, Abubacker & Devi 2014, Nalini et al. 2014). Other factors that influence the species diversity and richness are canopy levels and leaf age (Arnold & Herre 2003) and use of DNA sequence data to properly identify species(Guo et al.

2003, Arnold et al. 2007, Lumbsch et al. 2008, Rodriguez et al. 2009, Sun & Guo 2012, U'ren et al. 2012).

Numbers and diversity of endophytic fungi

The number of fungal endophytes has been estimated to be above a million according to Strobel & Daisy (2003) and Sun & Guo (2012). There is a universal presence of endophytes in every plant species. A single tropical leaf may harbour approximately 90 endophytic species, and 50 distinct genera in grassland species (Bayman 2006, Porras–Alfaro et al. 2008). Similarly, variation in the colonization rate is also from less than 1% to 44% in arctic and boreal ecosystems to more than 90% in tropical ones (Higgins et al. 2007). Arnold (2007) states that endophytes mostly belong to ascomycetes and their anamorphs and are ecologically an exceptionally diverse group. The hyperdiverse nature of endophytic fungi comes from the fact that they are ubiquitous and inhabit approximately 300,000 plant species on earth, indicating their number to be roughly about one million taxa based on 1:4 or 1:5 fungi per host.

Most of the endophytic fungi have been found to be non–sporulating. However, in recent years, these non–sporulating fungi have been sequenced with the help of molecular tools that enabled many of the endophytic fungal taxa to be identified up to species level (e.g. Lacap et al. 2003, Promputtha et al. 2005, Jeewon et al. 2013, Doilom et al. 2017). The diversity of endophytes isolated from orchid tissues has been found to be more in the leaves when compared to the other tissue parts. Similarly, the locality of the orchids also decides the nature and diversity of the endophytes isolated (Chen et al. 2013). The complexity of the tissues and the nature of ecological habitats experienced by the endophytes also shape the endophytic associations within the roots, leaves or other parts of orchids (Chen et al. 2013, Liu et al. 2012). The endophytic fungal association of grasses has received much attention in various studies. Tanaka et al. (2005) have summarized our understanding of the systemic colonization of clavicipitaceous fungi, particularly *Epichloë* spp. (Ascomycota: Clavicipitaceae), which thrive as endophytic fungi in a symbiotic mode, associated with grasses. *Neotyphodium* and *Epichloë* are just a part of these endophytic associations. The process of vertical transmission of endophytic fungi through seeds has been documented in grasses, for example, *Neotyphodium* and *Epichloë*. Thus, a maternally inherited character is generally observed in these vertically transmitted endophytes (Schardl et al. 2004).

Host association

A complex relationship exists between an endophyte and its host. Despite being animperative component in plant micro–ecosystems, understanding of endophytic fungal association with their host is inadequate, even though endophytes influence the growth and development of associated host (Jia et al. 2016). The outcome of the interaction of the endophyte with its host ranges from mutualism to antagonism, and hence this interaction referred as "continuum" (Saikkonen et al. 1998, Schulz & Boyle 2005). Endophytic association with the tree is generally not specific as discrepancy could be observed in nature of their association. A switch from mutualism to antagonism may occur under environmental pressure and may become saprobic once host starts senescence. But in grass–endophyte systems, they are systemic as well as host specific and hence their presence augment plant growth and deter herbivory (Verma et al. 2019). Besides the symbiotic association discussed above non–systemic association of endophytes associated with grasses has also been investigated widely. Márquez et al. (2012) summarized the non–systemic fungal endophytic association of grasses. Isolates from temperate and tropical grasses display low host specificity and inhabit different species of grasses. Dominant endophytic genera isolated from temperate grasses are *Alternaria*, *Acremonium*, *Cladosporium*, *Penicillium*, *Epicoccum* and *Aureobasidium*. Not only the ecological diversity of fungal endophytes but also their physiological diversity and capability to synthesize chemically potent and varying fungal secondary metabolites, also has been the main attraction for different investigators (Suryanarayanan & Hawksworth 2005, Suryanarayanan et al. 2009). The specificity of endophytes towards host species, host genus or host family may remain a topic of discussion (Arnold 2007) but this specificity relies on considerable

determinants such as early colonization, biochemical nature of host, ecology of host etc. (Arnold & Lutzoni 2007, Hyde 2007). Sieber (2007) reported less similarity in fungal endophytes of distantly related host.

Materials and Methods

A table has been provided (Table 1) in which a majority of the endophytic fungal taxa reported so far have been arranged alphabetically. In addition, in different other columns, the other higher hierarchal fungal groups have been included next to the particular species followed by the reference publications, information on host taxa and geographical locality. The names and their author citations have been confirmed by checking in the websites of Mycobank and Index Fungorum. The main classification followed in the present paper is that of (Hibbett et al. 2007) and for hierarchical placement of each endophytic fungal species into different fungal families is based on recent publications such as Wijayawardene et al. (2017, 2018), families of Sordariomycetes (Maharachikumbura et al. 2016) and families of Dothideomycetes (Hyde et al. 2013). Most of the taxa are provided up to species level. However, many endophytic fungi were identified only up to genus in many publications and hence they are provided with genus names. Only those fungi that are recorded as endophytic on different tissues and organs of plants are included in the present study. No attempt has been made to include those endophytic fungi that also thrive as endophytes inside different animals.

Results and Discussion

Terrestrial flora live mutualistically and are associated with a diverse array of fungi. The worldwide list of endophytic fungi has been provided in Table 1. Various parameters have been looked into in the present paper alongside providing the worldwide list of endophytic fungi. These include higher fungal groups, host species and geographical location. The data has been split into different tables and graphs to examine and discuss the diversity from higher hierarchical taxonomic groups to lower ones.

Major divisions

Communities of endophytic fungi associated with different hosts are diverse. An analysis of the diversity of endophytic fungi presented in Fig. 1 shows that most of the endophytic fungi (87%) belong to the division Ascomycota spread over 10 classes (Table 2), which is a reflection of earlier reports (Arnold et al. 2007) Not only in tropical forests but also in arctic plants, dominance of Ascomycota has been reported (Zhang & Yao 2015). Among the ascomycetes, the dominant ones are the Sordariomycetes, Dothideomycetes, Eurotiomycetes and Leotiomycetes (Fig. 1b). Arnold (2007), also reported Dothideomycetes as the major class of endophytes in boreal forests and Sordariomycetes in tropical forests followed by Leotiomycetes. Furthermore, from the data collected, we observe that major orders fall under Ascomycota and these are Pleosporales, Xylariales, Hypocreales, Eurotiales, Botryosphaeriales and Sordariales (Fig. 1c). Endophytic fungi also belong to other divisions such as Basidiomycota, Chytridiomycota, Mucoromycota, Zygomycota, etc., which constitutes the other 13% of endophytes. Reports suggest that Basidiomycota members were often detected in root-associated endophytic fungal communities from Arctic regions (Botnen et al. 2014). In the case of Basidiomycota, less than 10% of endophytic fungal species have been reported as endophytes. Among the different classes of Basidiomycota, the dominant class has been Agaricomycetes followed by Microbotryomycetes, Tremellomycetes and others. Agaricales, Polyporales, Cantharellales are the dominant orders in Basidiomycota, which is in agreement with earlier results. Very few (around 3%) belong to other divisions such as Chytridiomycota, Mucoromycota, Zygomycota (Fig. 1a). Similar observations were made with boreal and Arctic hosts viz. *Dryas integrifolia*, *Huperzia selago* and *Picea mariana*, in which Dothideomycetes, Sordariomycetes, Leotiomycetes, Chaetothyriomycetidae and Pezizomycetes were the major classes (Rungjindamai et al. 2008).

Similarly, Sordariomycetes followed by Dothideomycetes and Leotiomycetes were found to be dominant in temperate and tropical plants (Arnold 2008).

The dominance of Ascomycota has been reported in almost all studies on endophytic fungi without exception (Porras–Alfaro & Bayman 2011) and they seem to have better adaptations to colonize the internal tissues of plants. The fate of endophytic fungi has been suggested to be either saprophytic or latent pathogens. To this extent, the anamorphic state groups such as hyphomycetes and coelomycetes would help the endophytic fungi to thrive both during their endophytic stage and subsequently as saprophytes or pathogens. Though in the case of sexual states of Ascomycota there is little scope for the formation of fruit bodies of Ascomycetes internally inside leaves their subsequent fate to become either saprophytes or pathogens still has chance to form microscopic fruit bodies of ascomycetes or asci directly arising from the hyphae. Hence a large number of endophytes belonged to Ascomycota. However, the formation of large fruit bodies of Basidiomycetes can be ruled out on leaves. That could be one of the reasons why Basidiomycetes are far less in terms of species diversity as endophytes. Similarly, it could be surmised that the non–septate filamentous nature of mycelia in the case of Mucoromycota and Zygomycota and lack of mycelia per se in the case of Chytridiomycota are the traits that may not support an endophytic mode of life. However, it depends on the techniques used to study as the latter group of fungi props up when different baiting techniques are used.

Table 1 A worldwide list of endophytic fungi

Endophytes	**Division**	**Class**	**Order**	**Host**	**Host Part**	**Location**	**Reference**
Absidia glauca, Hagem	⑧	(xxi)	26	*Phragmites australis*	R	C6	146
Absidia corymbifera, P.A. Saccardo.; A. Trotter	⑧	(xxi)	26	*Galium sanaicum*	L, S	C2	589
Absidia sp.	⑧	(xxi)	26	*Meyna spinosa*	L, S, R	C1	319
Absidia spinosa, Lendner	⑧	(xxi)	26	*Avicennia officinalis*	L	C1	361
Acephala applanata, C. R. Grunig, T.N. Sieber	①	(x)	18	*Picea abies*	R	C6	130
Acephala macrosclerotiorum, Münzenberger & Bubner	①	(x)	18	*Picea abies*	R	C6	130
Acephala sp.	①	(x)	18	*Pseudorchis albida*	R	C6	122, 130,
Achaetomium sp., J.N. Rai, J.P. Tewari & Mukerji	①	(xviii)	39	*Teucrium scorodonia*	R	C1	10

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Acidomyces acidophilus, (Sigler & J.W. Carmichael) Selbmann, de Hoog & De Leo	①	(v)	8	N.S.	N.S.		496
Acremoniella sp.	①	(vii)	21	*Cordemoya integrifolia, Tripterygium wilfordii*	L	C1, C2	24, 31
Acremonium alabamense, Morgan-Jones	①	(xviii)	20	Mentha	L	C6	6
Acremonium alternatum, H.F. Link	①	(xviii)	20	*Gossypium hirsutum*	R	C3, C6	46, 87, 106, 145, 170
Acremonium blochii, (Matruchot) W. Gams	①	(xviii)	20	Barley	R	C6	313
Acremonium chrysogenum, (Thirumalachar & Sukapure) W. Gams	①	(xviii)	20	*Mentha piperita*	L	C6	6
Acremonium coenophialum, Morgan-Jones & W. Gams	①	(xviii)	20	*Festuca arundinacea*	L	C3	317
Acremonium coremioides, A.C.J. Corda	①	(xviii)	20	*Ferula foetida*	S	C1	493
Acremonium curvulum, W. Gams	①	(xviii)	20	*Bauhinia forficata*	Z	C4	316
Acremonium cyanophagus	①	(xviii)	20	*Holcus lanatus*	G	C6	87
Acremonium furcatum, Moreau & V. Moreau ex W. Gams	①	(xviii)	20	*Dysosma pleiantha*	R	C4, C1	300
Acremonium fusidioides, (J. Nicot) W. Gams	①	(xviii)	20	*Gossypium* spp.	S	C4	73
Acremonium implicatum, (J.C. Gilman & E.V. Abbott) W. Gam	①	(xviii)	20	*Brachiaria* sp.	G	C6	315

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Acremonium kiliense, Grütz	①	(xviii)	20	*Brassica napus, Calotropis procera*	R, S, L	C4, C6	73, 117
Acremonium loliae, Latch, M.J. Christensen & Samuels	①	(xviii)	20	*Festuca arundinacea*	G	C6	517
Acremonium mucronatum	①	(xviii)	20	*Quercus cerris*	L	C6	515
Acremonium murorum, (A.C.J. Corda) W. Gams	①	(xviii)	20	*Artemisia nilagirica*	L	C1	383
Acremonium nepalense W. Gams	①	(xviii)	20	*Dysosma versipellis*	L	C1	572
Acremonium persicinum, (J. Nicot) W. Gams	①	(xviii)	20	*Vitis vinifera*	L	C6	300
Acremonium potronii, Vuillemin	①	(xviii)	20	*Alkanna tinctoria*	R	C6	300
Acremonium pteridii, W. Gams & J.C. Frankland	①	(xviii)	20	*Bromeliaceae*	R	C4	518
Acremonium sclerotigenum, (Moreau & R. Moreau ex Valenta) W. Gams	①	(xviii)	20	*Silybum marianum*	L	C3	115, 492
Acremonium sp.	①	(xviii)	20	*Acrostichum aureum, Anemone nemorosa, Ceriops decandra, Carapa guianensis, Canarium ovatum, Cordemoya integrifolia, Dendrobium loddigesii, E. grandis, Euterpe oleracea, E. nitens, Huperzia serrata, Knema laurina, Lumnitzera racemosa, Panax ginseng, Plocamium cartilagineum, Plumeria rubra, Potentilla erecta, Rhizophora, Vitis*	R, S, X, L	C4, C4, C4, C1, C2, C1, C1, C1, C1	10, 12, 20, 22, 24, 31, 32, 33, 49, 57, 61, 62, 65, 66, 78, 80, 87, 90, 106, 107, 109, 115, 121, 122, 136, 146,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				vinifera, *Trachycarpus fortunei apiculata*, *Sambucus nigra*, *Taxus baccata*, *Taxus chinensis*, *Theobroma cacao*, *Tripterygium wilfordii*			175, 591, 150, 154, 156,
Acremonium strictum, W. Gams	①	(xviii)	20	*Calotropis procera*, *Dactylis glomerata*, *Vitis vinifera*, *Quercus Ilex*	L	C4, C6	34, 37, 66, 78, 103, 105, 117, 131, 145
Acremonium terricola, (J.H. Miller, Giddens & A.A. Foster) W. Gams	①	(xviii)	20	*Opuntia ficus-indica*	S	C4	175, 318
Acremonium tubakii, W. Gams	①	(xviii)	20	Milfoil	S, L	C3	385
Acremonium variecolor, Giraldo, Guarro, Gené & Cano	①	(xviii)	20	*Pinus thunbergii*	N	C1	297
Acremonium zeae, W. Gams & D.R. Sumner	①	(xviii)	20	Maize, *Zea maydis*	L	C3	158, 176, 200
Acremonium zonatum, (Sawada) W. Gams	①	(xviii)	20	*Silene dioica*	L	C6	119
Acrodictys elaeidicola, M.B. Ellis	①	(vii)	21	*Euterpe olerace*	L	C4	189
Acrostalagmus luteoalbus, R. Zare; W. Gams; H.J. Schroers	①	(xviii)	20	*Theobroma cacao*	C	C4	496
Agrocybe pediades, M.V. Fayod	②	(i)	1	*Holcus lanatus*	G	C6	87
Alatospora acuminata, C.T. Ingold	①	(x)	18	*C. viminea*, *E. adenophorum*	R	C1	458

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Albatrellus higanensis, S. Vadthanarat, S. Lumyong, & O. Raspe	②	(i)	36	*Theobroma gilero*	S	C4	102
Albonectria rigidiuscula, (Berkeley & Broome) Rossman & Samuels	①	(xviii)	20	NS	L	C2	495
Allantophomopsis lycopodina, L.M. Carris	①	(x)	85	Beech	C	C1	158
Allescheriella crocea, S. Hughes	②	(i)	7	*Avicennia offinalis*	R	C1	393
Alternaria abutilonis, (Passerini) Schwarze	①	(v)	34	*Cajanus cajan*	L, S	C1	95
Alternaria alternata, K. Keissler	①	(v)	34	*Artemisia annua*, *Avicennia marina*, *Brassica napus*, *Beta vulgaris*, *Capsicum annum*, *Cannabis sativa*, *Cedrus deodara*, *Coffea Arabica*, *Chamaecyparis thyoide*, *E. nitens*, *E. grandis*, *Gossypium hirsutum*, *Kigelia pinnata*, *Maytenus hookeri*, *Musa accuminata* sp., *Vitis vinifera*, *Fraxinus ornus*, *Alternaria alternata*	X, S, R, L, T	C6, C1, C1, C3, C1, South, C1, C2, C3	9, 12, 13, 18, 22, 46, 50, 55, 58, 66, 67, 72, 74, 76, 77, 78, 82, 84, 90, 91, 95, 97, 103, 125, 136, 144, 148, 150, 156, 159, 165, 167, 179, 282, 384, 589

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Alternaria angustiovoidea, E.G. Simmons	①	(v)	34	*Suaeda microphylla*	L, S	C1	72
Alternaria arborescens, E.G. Simmons	①	(v)	34	*Artemisia annua*, *Glycine max*, *Vitis vinifera*	L, T	C4, C1	1, 50, 66, 76, 78, 103, 129,
Alternaria arbusti, E.G. Simmons	①	(v)	34	*Phleum pratense*	L	C6	47
Alternaria bokurai, M. Miura	①	(v)	34	*Phoenix dactylifera*	L, S	C2	370
Alternaria brassicae, P.A. Saccardo	①	(v)	34	*Artemisia annua*, *Cannabis sativa*, *Gossypium hirsutum*, *Mallus haliana*, *Rauwolfia serpentina*	T	C1, C3	46, 50, 95, 144
Alternaria brassicicola, S.P. Wiltshire	①	(v)	34	*Gossypium hirsutum*, *Mallus haliana*	W	C3	72, 77, 158, 522
Alternaria calycipyricola, R.G. Roberts	①	(v)	34	*Suaeda microphylla*	L, S	C1	72
Alternaria carthami, S.R. Chowdhury	①	(v)	34	*Monarda citriodora*	L, R, Z	C1	360
Alternaria cerasidanica, R.G. Roberts.; S.T. Reymond; B. Andersen	①	(v)	34	*Prunus avium*	F	C6	495
Alternaria chartarum, Preuss	①	(v)	34	*Boswellia sacra*	S, L	C1	299
Alternaria cheiranthi, P.C. Bolle	①	(v)	34	*Boswellia sacra*	S, L	C1	90
Alternaria chlamydospora, J. Mouchacca	①	(v)	34	*Boswellia sacra*	S, L	C1	90
Alternaria citri, N.B. Pierce	①	(v)	34	*Artemisia annua*	T	C1	50, 95
Alternaria citriarbusti, E.G. Simmons	①	(v)	34	*Suaeda corniculata*	S	C1	72
Alternaria citrimacularis, E.G. Simmons	①	(v)	34	*Juniperus procera*	T	C1	426

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Alternaria compacta, (Cooke) McClellan	①	(v)	34	*Gossypium hirsutum, Sapindus detergens*	S, L	C3	46
Alternaria conjuncta, E.G. Simmons	①	(v)	34	*Centaurea stoebe*	W	C6	103
Alternaria dauci, J.W. Groves; A.J. Skolko	①	(v)	34	*Malva alcea, Silybum marianum*	S, L	C4, C3	79
Alternaria daucicaulis, E.G. Simmons	①	(v)	34	*Suaeda corniculata*	S	C1	72
Alternaria dennsi	①	(v)	34	*A. indica*	L	C1	415
Alternaria destruens, E.G. Simmons	①	(v)	34	*Jatropha curcas*	L	C1	52
Alternaria dianthi, F.L. Stevens; J.G. Hall	①	(v)	34	*Gossypium hirsutum, Boswellia sacra*	S, L	C3, C1	46
Alternaria eichhorniae, T.R. Nag Raj; K.M. Ponnappa	①	(v)	34	*Persea americana*	C	C1	115
Alternaria franseriae, E.G. Simmons	①	(v)	34	*Suaeda corniculata*	S	C1	72
Alternaria gaisen, Nagano ex Hara	①	(v)	34	*Cajanus cajan*	L, S	C1	95
Alternaria hemuli	①	(v)	34	*Suaeda microphylla*	L, S	C1	72
Alternaria hibisci, O. Bouhot	①	(v)	34	*Suaeda corniculata*	S	C1	72
Alternaria infectoria, E.G. Simmons	①	(v)	34	*Triticum aestivum*	O	C6	512
Alternaria longipes, E.W. Mason	①	(v)	34	*Gossypium hirsutum, Artemisia* sp.	L, S	C3, C1	46, 95, 103
Alternaria longissima, F.C. Deighton; Q.D. MacGarvie	①	(v)	34	*Bouteloua gracilis*	R	C3	78
Alternaria macrospora, A. Zimmermann	①	(v)	34	*Camellia oleifera*	L	C1	507
Alternaria mali, J.W. Roberts	①	(v)	34	*Brassica napus, Gossypium hirsutum*	R, L	C1, C3	46, 78

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Alternaria malorum, U. Braun; P.W. Crous; F. Dugan; J.Z. Groenewald; G.S. de Hoog	①	(v)	34	*Centaurea stoebe*	W	C6	103
Alternaria metachromatica, E.G. Simmons	①	(v)	34	*Silybum marianum*	H	C3	103
Alternaria molesta, E.G. Simmons	①	(v)	34	*Suaeda corniculata*	S	C1	72
Alternaria murispora, H.A. Ariyawansa & K.D. Hyde	①	(v)	34	Olive	L	C6	565
Alternaria neesex, P.W. Crous, W. Gams W, J.A. Stalpers, V. Robert, G. Stegehuis	①	(v)	34	*Sinopodophyllum hexandrum*, *Melia azedarach*	B	C1	125
Alternaria ochroleuca, T.S. Matvejeva	①	(v)	34	*Cajanus cajan*	L, S	C1	371
Alternaria oregonensis, E.G. Simmons	①	(v)	34	*Centaurea stoebe*	W	C6	103
Alternaria pellucida, E.G. Simmons	①	(v)	34	*Suaeda microphylla*	L, S	C1	72
Alternaria photistica, E.G. Simmons	①	(v)	34	*Centaurea stoebe*	W	C6	103
Alternaria pluriseptata, I. Jørstad	①	(v)	34	*Boswellia sacra*	S, L	C1	299
Alternaria pomicola, A.S. Horne	①	(v)	34	*Cajanus cajan*	L, S	C1	95
Alternaria porri, R. Ciferri	①	(v)	34	*Saraca asoca*	S, L, B	C1	377
Alternaria radicina, F.C. Meier; C. Drechsler; E.D. Eddy	①	(v)	34	*Boswellia sacra*	S, L	C1	299
Alternaria raphani, J.W. Groves; A.J. Skolko	①	(v)	34	*Boswellia sacra*	S, L	C1	299
Alternaria sesami, N.N. Mohanty; B.C. Behera	①	(v)	34	*Gossypium hirsutum*	L	C3	46
Alternaria smyrnii, E.G. Simmons	①	(v)	34	*Suaeda corniculata*	S	C1	72

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Alternaria solani, Sorauer	①	(v)	34	*Millingtoniahortensis*, *Tabebuia* sp.	L	C1	46, 124
Alternaria sonchi, J.J. Davis	①	(v)	34	*Eichhornia crassipes*	L, L	C1	382
Alternaria sp.	①	(v)	34	*Alnus*, *Annona muricata*, *Artemisia annua*, *Avicennia marina*, *Buddleja asiatica*, *Canarium ovatum*, *Cannabis sativa*, *Catharanthus roseus*, *Cymodocea*, *Excoecaria agallocha*, *Glycine max*, *Grapevine*, *Gossypium hirsutum*, *Lumnitzera racemosa*, *Piptadenia adiantoides*, *Plumeria rubra*, *Pinus halepensis*, *Polygonum senegalense*, *Rauwolfia serpentina*, *Sabina vulgaris*, *Sinopodophyllum hexandrum*, *Sonneratia alba*, *Silybum marianum*, *Tectona grandis*, *Teucrium scorodonia*, *Trixis vauthieri*, *Toxicodendron vernicifluum*, *Ulex europaeus*, *Vitis vinifera*	L, S, Y, B, R, G	C6, C4, C4, C2, C1, C1, C1, C1, C1, C3	10, 18, 22, 29, 32, 38, 45, 46, 49, 50, 53, 56, 57, 58, 60, 65, 66, 78, 79, 80, 82, 83, 87, 88, 90, 95, 99, 105, 115, 117, 122, 125, 129, 131, 134, 145, 150, 155, 156, 159, 160, 161, 166, 171, 208
Alternaria tangelonis, E.G. Simmons	①	(v)	34	*Suaeda microphylla*	L, S	C1	72
Alternaria tellustris, E.G. Simmons	①	(v)	34	*Microthlaspi* sp.	R	C6	386

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Alternaria tenuis, C.D.G. Nees von Esenbeck	①	(v)	34	*Boswellia sacra*	S, L	C1	299
Alternaria tenuissima, S.P. Wiltshire	①	(v)	34	*Artemisia annua, Glycine max, Gossypium hirsutum, Kigelia pinnata, Tylophora indica, Vitis vinifera*	R, T	C4, C1, C3	46, 50, 55, 66, 74, 95, 103, 129, 148, 159
Alternaria triticimaculans, E.G. Simmons	①	(v)	34	*Triticum aestivum*	O	C6	311
Alternaria triticina, R. Prasada, A.S. Prabhu	①	(v)	34	*Deschampsia antarctica*	G	C5	307
Alternaria vaccariicola, E.G. Simmons	①	(v)	34	*Suaeda microphylla*	L, S	C1	72
Alternaria viburni, E.G. Simmons	①	(v)	34	*Phleum pratense*	L	C6	47
Alternaria yaliinficiens, R.G. Roberts.	①	(v)	34	*Suaeda corniculata*	S	C1	72
Amerosporium sp.	①	(x)	18	*Rhododendron*	L, S	C1	224
Amorphotheca resinae, D.G. Parbery	①	(vi)	21	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4, C1	334
Ampelomyces humuli, O.L. Rudakov	①	(v)	34	*Vitis vinifera*	U	C4, C1	103
Ampelomyces sp.	①	(v)	34	*Dendrobium, Glycine max, Urospermum picroides, Polygonum senegalense*	R, S, L	C6	122, 129, 150, 152, 159, 200
Ampelomyces quisqualis, V. Cesati	①	(v)	34	*Fraxinus orni*	L	C3	589
Amphinema sp.	②	(i)	65	*Elaeis guineensis*	S, R	C1	122
Amphiporthe leiphaemia, H.H. Butin	①	(xviii)	14	*Quercus robur*	C	C6	201

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Amphiporthe castanea, (Tulasne & C. Tulasne) M.E. Barr	①	(xviii)	14	Fraxinus ornus	L	C3	589
Amyloathelia crassiuscula, K. Hjortstam; L. Ryvarden	②	(i)	3	Grass	U	C3	78
Amylomyces rouxii, L.C.A. Calmette	⑦	(xxviii)	26	*Phoenix dactylifera*	R	C1	192
Anguillospora longissima, C.T. Ingold	①	(v)	34	*C. viminea, E. adenophorum*	R	C1	458
Annulohypoxylon annulatum, H.M. Hsieh; Y.M. Ju; J.D. Rogers	①	(iii)	47	*Pinus koraiensis*	N	C1	95
Annulohypoxylon bovei var. *microspora*, H.M. Hsieh; Y.M. Ju; J.D. Rogers	①	(iii)	47	*Cinnamomum*	B	C1	262
Annulohypoxylon cohaerens (Pers.) Y.M. Ju, J.D. Rogers & H.M. Hsieh	①	(iii)	47	*Hymenoscyphus fraxineus*	U	C6	567
Annulohypoxylon ilanense, H.M. Hsieh; Y.M. Ju; J.D. Rogers	①	(iii)	47	*Cinnamomum*	V	C1	254
*Annulohypoxylon multiforme (*Fr.) Y.M. Ju, J.D. Rogers & H.M. Hsieh	①	(iii)	47	*Hymenoscyphus fraxineus*	U	C6	567
Annulohypoxylon sp.	①	(iii)	47	*Dendrobium, taxus globosa*	O, R	C3, C1	60, 122
Annulohypoxylon squamulosum, H.M. Hsieh; Y.M. Ju; J.D. Rogers	①	(iii)	47	*Cinnamomum* sp.	S, B	C1	262
Annulohypoxylon stygium, H.M. Hsieh; Y.M. Ju; J.D. Rogers	①	(iii)	47	Soyabean	L	C6	215

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Annulohypoxylon thouarsianum, H.M. Hsieh; Y.M. Ju; J.D. Rogers	①	(iii)	47	*Taxus globosa*	O	C3	74
Annulohypoxylon truncatum, H.M. Hsieh; Y.M. Ju; J.D. Rogers	①	(iii)	47	*Pinus koraiensis*	N	C1	350
Antarctomyces psychrotrophicus, A.M. Stchigel; J. Cano; W. MacCormack; J. Guarro	①	(xxvii)	37	*Ulva intestinalis*	A	C5	309
Anteaglonium sp.	①	(v)	34	*Selaginella arenicola*	W	C3	564
Anthostomella brabeji, S. Lee; P.W. Crous	①	(xviii)	47	*Paepalanthus planifolius*	L	C4	78
Anthostomella eucalyptorum, P.W. Crous; J.Z. Groeneveld; M.J. Wingfield	①	(xviii)	47	*Betula platyphylla*, *Quercus liaotungensis*, *Ulmus macrocarpa*	L, C	C1	1
Anthostomella formosa, Kirschstein	①	(xviii)	47	*Pinus sylvestris*, *Juniperus communis*	L	C6, C6	201
Anthostomella pedemontana, Ferraris & P.A. Saccardo	①	(xviii)	47	*Pinus nigra*	N	C6	456
Anthostomella pinea, P.W. Crous	①	(xviii)	47	*Hymenoscyphus fraxineus*	U	C6	567
Anthostomella sp.	①	(xviii)	47	*Euterpe olerace*, *Phaseolus vulgaris*	L	C4, C4	189
Aphanocladium album, W. Gams	①	(xviii)	20	*Altheae rosea*	L	C2	271
Aphanocladium sp.	①	(xviii)	20	*Cymodocea*, *Thalassia* sp.	G	C1	117
Apiognomonia errabunda, F. von Höhnel	①	(xviii)	14	*Fagus sylvatica*	L	C6	201
Apiognomonia quercina, F. von Höhnel	①	(xviii)	14	*Quercus garryana*, *Quercus petraea*, *Quercus robur*	L	C3, C6, C6	201
Apiognomonia sp.	①	(xviii)	14	*Fagus crenata*	L	C1	201

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Apiognomonia tiliae, F. von Höhnel	①	(xviii)	14	*Tilia cordata*	L	C6	201
Apiosordaria otanii, M. Watanabe; S.B. Malla	①	(xviii)	39	*Abies pindrow*	T	C1	50
Apiospora montagnei, P.A. Saccardo	①	(xviii)	21	*Polysiphonia violacea, Phleum pretense*	L	C6	47
Aplosporella prunicola, U. Damm; P.W. Crous	①	(v)	6	*Artemisia thuscula*	S	C6	568
Aplosporella yalgorensis, K. Taylor; P.A. Barber; G.E. StJ. Hardy; T.I. Burgess	①	(v)	6	*Eucalyptus* sp.	C	C7	427
Apodus deciduus, D. Malloch; R.F. Cain	①	(xviii)	39	*A. thaliana*	L	C6	58
Apodus oryzae, J.A. von Arx	①	(xviii)	39	*Phragmites australis*	R	C6	146
Aporospora sp.	①	(vii)	21	*Tiquilia hispidissima*	R	C3	326
Aporospora terricola, J.C. Krug & Jeng	①	(vii)	21	*Espeletia*	R	C6	300
Aposphaeria sp.	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	S, L	C4	334
Aquaphila ramdayalea, Maria D'souza and D. J. Bhat	⑥	(vii)	21	*Flacourtia montana*	L	C1	325
Armillaria mellea, P. Kummer	②	(i)	1	*Gastrodia Elata*	P	C3	178
Armillaria sp.	②	(i)	1	*Eulophia alta*	R	C1	122
Arthrinium arundis, B.J. Dyko; B.C. Sutton	①	(xviii)	47	*Brassica napus*	S	C1	47
Arthrinium hydei, P.W. Crous; J.Z. Groenewald	①	(xviii)	47	*Cissus Quadrangularis*	O	C1	457
Arthrinium malaysianum, P.W. Crous; J.Z. Groenewald	①	(xviii)	47	*Alpinia malaccensis*	O	C1	421

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Arthrinium phaeospermum, M.B. Ellis	①	(xviii)	47	*Carex kobomugi*, *Arundo mauritanica*, *Bambusa* spp., *Brassica campestris*, *Carex* spp., and *Pinus officinalis*	L, S, R	C1, C3	66, 93, 264, 384
Arthrinium sp.	①	(xviii)	47	*Dendrobium*, *Brassica napus*, *Fortunella japonica*	R, S, L	C1	17, 57, 60, 80, 87, 100, 122, 161, 167,
Arthrobotrys conoides, C. E. Drechsler	①	(xiv)	29	*C. magna*	B, T	C1	519
Arthrobotrys foliicola, T. Matsushima	①	(xiv)	29	*Oryza sativa*	L	C1	192
Arthrobotrys oligospora, G. Fresenius	①	(xiv)	29	*Eichhornia crassipes*	L, L	C1	382
Arthrobotrys sp.	①	(xiv)	29	*Oryza sativa*	R	C1	80
Arthroderma benhamiae, L. Ajello; S.L. Cheng	①	(v)	14	*Cathranthus roseus*	O	C7	358
Arthroderma insingulare, A.A. Padhye; J.W. Carmichael	①	(v)	14	*Artemisia nilagirica*	L	C1	383
Arthrographis sp.	①	(xxxiii)	17	*Holarrhena antidysentrica*, *Jatropha curcas*, *Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Articulospora proliferata, A. Roldán & W.J.J. van der Merwe	①	(x)	18	*Ammophila*	R	C1	512
Articulospora sp.	①	(x)	18	Grasses	R, Z, L, S	C3	121
Articulospora tetracladia, C.T. Ingold	①	(x)	18	Submerged plants	R	C6	285

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Arxiella dolichandrae, P.W. Crous	①	(vii)	21	*Paullinia cupana*	R, H	C4	552
Aschersonia sp.	①	(xviii)	20	*C. acuminate*	S	C1	86
Ascobolus crenulatus, P. Karsten	①	(xv)	31	*C. amoena*	R	C1	82
Ascobolus sp.	①	(xv)	31	*C. amoena*	R	C1	122
Ascocoryne, J.W. Groves & D.E. Wilson	①	(x)	18	*Picea koraiensis*	V	C1	562
Ascocoryne sarcoides, (Jacq.) J.W. Groves & D.E. Wilson	①	(x)	18	*Eucryphia cordifolia*		C4	576
Ascochyta rabiei, F.J. Labrousse,	①	(xv)	31	*Cathranthus roseus*	O	C7	358
Ascochyta salicorniae, Trotter, A.	①	(xv)	31	*Ulva*	A	C3	520
Ascochyta sp.	①	(v)	34	*Fagus crenata*, *Opuntia*, *Toxicodendron vernicifluum*, *Triticum aestivum*	B, L	C1, C2	57, 134, 161
Ascochytopsis vignae, P. Hennings	①	(vii)	21	*Acer truncatum*	L	C1	76
Ascotricha chartarum, M.J. Berkeley	①	(xviii)	47	*Bauhinia forficata*	H	C4	316
Aspergillus aculeatus, Iizuka	①	(vi)	17	*Garcinia* sp.	L, S	C1, C1	42
Aspergillus alliaceus, C. Thom; M. Church	①	(vi)	17	*Ceriops tagal*	L	C1	347
Aspergillus alutaceus, M.J. Berkeley	①	(vi)	17	*Holarrhena antidysentrica*, *Jatropha curcas*, *Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Aspergillus auricomus, K. Saito	①	(vi)	17	*Withania somnifera*	S	C1	91

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Aspergillus awamori, Nakazawa	①	(vi)	17	*Avicennia marina, Rauwolfia serpentina*	O	C1	91
Aspergillus brasiliensis, J. Varga Houbraken, H.A.L. van der Lee,; P.E. Verweij, R.A. Samson	①	(vi)	17	Grape berries	O	C3	74
Aspergillus calidoustus, J. Varga Houbraken, H.A.L. van der Lee,; P.E. Verweij, R.A. Samson	①	(vi)	17	*Ziziphus nummularia*	L	C1	463
Aspergillus candidus, H.F. Link	①	(vi)	17	*Acalypha indica*	L, L, S, R	C1	135
Aspergillus carbonarius, C. Thom; J.N. Currie	①	(vi)	17	Maize, *Zea maydis*	H	C3	475
Aspergillus clavatonanicus, A.C. Batista, H. da Silva Maia, I. da C. Alecrim	①	(vi)	17	*Torreya mairei, Mirabilis jalapa*	T	C1	178
Aspergillus clavatus, J.B.H.J. Desmazières	①	(vi)	17	*Taxus mairei, Torreya grandis, Azadirachta indica*	W	C1	125
Aspergillus concius, E. Dale	①	(vi)	17	*Avicennia marina, Suaeda monica and Rhizophora mucronata*	L	C1	192
Aspergillus flavipes, C. Thom, M. Church	①	(vi)	17	*Acalypha indica, Brassica napus*	L, L, R, S	C1, C1	135
Aspergillus flavus, H.F. Link	①	(vi)	17	*Kigelia pinnata, Viscum album, Moringa oleifera*	O	C1	36, 38, 41, 55, 62, 68, 75, 84, 86, 91, 108, 125, 148

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Aspergillus flavus var. *columnaris*, K.B. Raper, D.I. Fennell	①	(vi)	17	*Boswellia sacra*	S, L	C1	299, 539
Aspergillus fumigatus, G. Fresenius	①	(vi)	17	*Ascophyllum nodosum, Cynodon dactylon, Fucus serratus, Fucus vesiculosus, Juniperus communis, Justicia beddomei vesiculosus, Juniperus communis, Justicia beddomei*	S	C1, C1	49, 51, 67, 84, 108, 125, 137, 143, 152, 158, 166, 137, 143, 148, 158, 166
Aspergillus fumigatiaffinis S.B. Hong, Frisvad & Samson	①	(vi)	17	*Crocus sativus*	Root	C2	578
Aspergillus glaucas, H.F. Link	①	(vi)	17	*Ipomoea batatas*	L	C2	148
Aspergillus granulose	①	(vi)	17	*Ceriops tagal*	L	C1	347
Aspergillus iizukae, Sugiyama	①	(vi)	17	*Silybum marianum*	L	C3	115
Aspergillus janus, Raper, K.B.; C. Thom	①	(vi)	17	*Ceriops tagal*	L	C1	347
Aspergillus japonicas, Saito	①	(vi)	17	*Opuntia ficus-indica*	R	C6	175, 318
Aspergillus neoniveus, R.A. Samson; S.W. Peterson ; J.C. Frisvad ; J. Varga	①	(vi)	17	*Typhonium divaricatum*	L	C1	249
Aspergillus nidulans, G. Winter	①	(vi)	17	*Ginkgo biloba, Taxus mairei, Avicennia marina*	L	C1	84, 193

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Aspergillus niger, Tieghem, P. van	①	(vi)	17	*Acalypha indica, Avicennia marina, Cyndon dactylon, Cymodocea serrulata, Fucus serratus, Fucus vesiculosus, Halodule uninervis, Kigelia pinnata, Thalassia* sp., *Vitis vinifera*	S, L, R, M, L	C1	18, 32, 38, 41, 55, 62, 66, 68, 74, 75, 84, 91, 117, 125, 135, 148, 152, 158, 165, 539
Aspergillus nomius, C.P. Kurtzman; B.W. HornB.W. Horn; C.W. Hesseltine,	①	(vi)	17	*Eusideroxylon zwageri*	L	C1	513
Aspergillus ochraceus, K. Wilhelm	①	(vi)	17	*Altheae rosea, Avicennia marina*	L	C2	84, 271, 539
Aspergillus oryzae, F. Cohn	①	(vi)	17	*Ginkgo biloba, Paris polyphylla*	M	C1	86, 148
Aspergillus parasiticus, Speare	①	(vi)	17	*Sequoia sempervirens*	B	C3	196
Aspergillus phoenicis, C. Thom; J.N. Currie	①	(vi)	17	*Coffea arabica*	O	C3	497
Aspergillus protuberus, Muntañola-Cvetkovic	①	(vi)	17	*Panax ginseng*	R	C1	143
Aspergillus pseudodeflectus, R.A. Samson; J. Mouchacca	①	(vi)	17	*Coffea arabica*	O	C3	497
Aspergillus pseudoglaucus, Annales Blochwitz	①	(vi)	17	*Hymenoscyphus fraxineus*	U	C6	567
Aspergillus pulvinus, Raper, K.B.; Fennell, D.I.	①	(vi)	17	*Aspergillus pulvinus, Withania somnifera*	O	C2	91

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Aspergillus pulvurulentus, (McAlpine) Wehmer	①	(vi)	17	*Melia azedarach*	R, R X, S, L F	C1	475
Aspergillus reptans, R.A. Samson; Pitt, J.I.	①	(vi)	17	*Colobanthus quitensis*	L	C5	306
Aspergillus sclerotiorum, G.A. Huber	①	(vi)	17	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Aspergillus sp.	①	(vi)	17	*Alternanthera sessilis, Avicennia marina, Brassica napus, Caesalpinia sappan, cocoa, Ceriops decandra, Cordemoya integrifolia*, *Cymodocea* sp., *Kigelia pinnata, Vitis vinifera*	L, X, R, C	C1, C3, C1, C1, C1, C2, C1	18, 24, 31, 32, 38, 41, 55, 65, 66, 82, 99, 103, 116, 117, 122, 136, 150, 154, 155, 159, 246
Aspergillus sulphureus, (Fresenius) Wehmer	①	(vi)	17	*Ceriops tagal*	L	C1	347
Aspergillus sydowi, C. Thom; M. Church	①	(vi)	17	*Scapania ciliata, Panax ginseng*	N	C1	51, 143
Aspergillus tamarii, Kita	①	(vi)	17	*Ocimum sanctum*	L	C1	91
Aspergillus tardus, J. Bissett; P. Widden	①	(vi)	17	*Linnea borealis*	L	C3	421
Aspergillus terreus, C. Thom; M. Church	①	(vi)	17	*Avicennia marina, Cymodocea serrulata, Cymodocea* sp.	L, M	C1	68, 84, 158, 91, 117

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Aspergillus terricola, É.J. Marchal	①	(vi)	17	*Altheae rosea*	L	C2	91
Aspergillus thomii, G. Smith	①	(vi)	17	*Withania somnifera*	L	C1	91
Aspergillus tubingensis, R. Mosseray	①	(vi)	17	*Eugenia jambolana*	L, L, S, W	C1	87, 250
Aspergillus ustus, C. Thom; M. Church	①	(vi)	17	*Altheae rosea*	L	C2	65, 158
Aspergillus uvarum, G. Perrone; J. Varga; A. Susca; J.C. Frisvad; G. Stea; S. Kocsube; B. Toth; Z. Kozakiewicz; R.A. Samson	①	(vi)	17	Grapes	F	C6	2
Aspergillus verocosa	①	(vi)	17	*Aloe vera*	S	C1	84, 148
Aspergillus versicolor, (Vuillemin) Tiraboschi	①	(vi)	17	*Altheae rosea*, *Avicennia marina*	L	C2	64, 125, 148
Aspergillus waksmanii, V. Hubka; S.W. Peterson; J.C. Frisvad; T. Yaguchi; A. Kubátová; M. Kolařík	①	(vi)	17	*Monarda citriodora*	L, R, Z	C1	360
Aspergillus wentii, Wehmer	①	(vi)	17	*Gymnogongrus flabelliformis*	A	C1	288
Aspergillus westerdijkiae, Frisvad & Samson	①	(vi)	17	*Coffea arabica*	O	C3	497
Asperisporium sp.	①	(v)	8	*C. fenestratum*	S	C1	67
Asteromella andrewsii, J.J. Davis	①	(v)	21	*B. monosperma*	B	C1	394
Asteromella sp.	①	(v)	21	*Quercus emoryi*	L	C6, C3	184
Asterosporium asterospermum, S.J. Hughes	①	(vii)	21	*Fagus sylvatica*	T	C6	201
Astrosphaeriella bakeriana, K.D. Hyde; J. Fröhlich	①	(v)	34	*Livistona chinensis*	L	C1	379

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Athelia bombacina, C.H. Persoon	②	(i)	65	*Triticum aestivum*	O	C6	311
Atkinsonella hypoxylon, W.W. Diehl	①	(xviii)	20	*Texas wintergrass*	G	C3	6
Aureobasidium apocryptum, E.J. Hermanides-Nijhof	①	(v)	15	*Quercus petraea*	L	C6	201
Aureobasidium microstictum, W.B. Cooke	①	(v)	15	*Prunus avium*	T, L	C1	492
Aureobasidium proteae, P.W. Crous; B.A. Summerell; Swart, L.; Denman, S.; Taylor, J.E.; Bezuidenhout, C.M.; Palm, M.E.; S. Marincowitz; J.Z. Groenewald	①	(v)	15	*Triticum aestivum*	O	C6	311
Aureobasidium pullulans, G. Arnaud	①	(v)	15	*Acalypha indica, Acer plantanoides, Artemisia capillaris, Banksia integrifolia, Brassica napus, Coffea arabica, E. grandis, E. nitens, Grapevines, Phleum pratense, Ulex europaeus, Vitis vinifera, Pinus halepensis, Trachycarpus fortunei*	S, X, L, R, L	C7, C4, C6, C1, C6, C1, C2, C6	7, 32, 47, 58, 66, 77, 83, 85, 87, 95, 99, 103, 131, 132, 135, 591
Aureobasidium sp.	①	(v)	15	*Alnus, Canarium ovatum. Crataegus monogyna, Dendrobium, Sequoia sempervirens, Heterosmilax japonica, Panax ginseng, Plumeria rubra, Rhizophora apiculata, Teucrium scorodonia*	L, F, S, R	C3, C1, C1, C1, C1	10, 22, 29, 32, 57, 58, 88, 90, 95, 122, 136, 160, 161
Auriculariales sp.	②	(i)	4	*T. cacao*	S, F	C4, C2	101

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Auxarthron conjugatum, G.F. Orr; H.H. Kuehn; O.A. Plunkett	①	(vi)	56	*Dactylis glomerata*	G	C6	315
Bactrodesmium traversianum, M.B. Ellis	①	(v)	21	*Eichhornia crassipes*	L, L	C1	382
Balansia cyperi, C.W. Edgerton	①	(xviii)	20	*Cyperus virens*	G	C3	125
Balansia epichloe, W.W. Diehl	①	(xviii)	20	*Sporobolus poiretii*	G	C3	153
Balansia henningsiana, W.W. Diehl	①	(xviii)	20	*Panicum agrostoides*	G	C3	6
Balansia obtecta, W.W. Diehl	①	(xviii)	20	*Cenchrus echinatus*	G	C1	291
Bartalinia pondoensis, S. Marincowitz; M. Gryzenhout; M.J. Wingfield	①	(xviii)	66	*Clerodendrum inerme*	L, S, R	C1	145
Bartalinia robillardoides, F. Tassi	①	(xviii)	66	*Aegle marmelos*	L	C1	111, 125, 145, 199
Bartalinia sp.	①	(xviii)	66	*Ixora coccinea*	L	C1	378
Beauveria bassiana, P. Vuillemin	①	(xviii)	20	*Zea Maize*	S, L	C3	66, 106, 170,
Beauveria brongniartii, T. Petch	①	(xviii)	20	*Vicia faba*	L, S, R	C6	170
Beauveria felina, J.W. Carmichael; W.B. Kendrick; Conners, I.L.; Sigler, L.	①	(xviii)	20	*Phragmites australis*	R	C6	146
Beauveria sp.	①	(xviii)	20	Cassava	R	C4	57, 106
Beltrania rhombica, O. Penzig	①	(xviii)	21	*Carapa guianensis, Jacaranda* sp.	R	C4	20, 77
Beltrania sp.	①	(xviii)	21	*Carapa guianensis, Jacaranda* sp.	R	C4	20

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Beltraniella odinae, C.V. Subramanian	①	(xviii)	47	*Pinus elliottii*	N	C1	558
Bensingtonia sorbi, Q.M. Wang; F.Y. Bai; J.H. Zhao; J.H. Jia	②	(ii)	2	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C, W	C5	121
Bensingtonia sp.	②	(ii)	2	*Anathallis sclerophylla*	L, S, R	C3	435
Berkleasmium sp.	①	(vii)	21	*Dioscorea zingiberensis*	L	C1	398
Bharatheeya mucoidea, M. D'Souza; D.J. Bhat	①	(iii)	21	*Calamus thwaitesii*	L	C1	325
Bionectria ochroleuca, J.H. Schroers; G.J. Samuels	①	(xviii)	20	*Ulva intestinalis. T, gileri*	S	C6, C4	3, 49, 65, 102, 131
Bionectria pityrodes, H.J. Schroers	①	(xviii)	20	*Fagopyrum tataricum*	S	C1	469
Bionectria rossmaniae, H.J. Schroers	①	(xviii)	20	*Solarium lycopersicum*	R	C4	78, 163
Bionectria sp.	①	(xviii)	20	*Drymonia semicordata, Changnienia amoena*	S, M	C4, C1	79, 122, 150
Bipolaris autralis, J.L. Alcorn	①	(v)	34	*Triticum aestivum*	O	C2	12
Bipolaris drechsleri, Manamgoda & A.M. Minnis	①	(v)	34	*Vellozia gigantea*	R, L	C1	478
Bipolaris heveae, J.A. von Arx	①	(v)	34	*Acer truncatum*	L	C1	76, 78
Bipolaris nodulosa, R.A. Shoemaker	①	(v)	34	*Acalypha indica*	L, S, L, R	C1	135
Bipolaris oryzae, R.A. Shoemaker	①	(v)	34	Switch Grass	U	C3	78
Bipolaris papendorfii, J.L. Alcorn	①	(v)	34	*Phaseolus vulgaris*	L	C1	95

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Bipolaris sorghicola, J.L. Alcorn	①	(v)	34	*Espeletia*	L	C1	355
Bipolaris sorokiniana, R.A. Shoemaker	①	(v)	34	*Triticum aestivum*	G	C4	348
Bipolaris sp.	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C6	72, 103, 104, 116
Bipolaris spicifera, C.V. Subramanian	①	(v)	34	*Gossypium hirsutum*	L, S	C3	46, 95
Bipolaris tetramera, (McKinney) Shoemaker	①	(v)	34	*Pinus roxburgii*	T	C1	50, 95
Bipolaris zeae, A. Sivanesan	①	(v)	34	*Acer truncatum*	L	C1	76
Biscognauxia mediterranea, O. Kuntze	①	(xviii)	47	*Silybum marianum, Phragmites australis*	S, L, R	C1, C3, C6	58, 87, 115, 146
Biscogniauxia atropunctata, Z. Pouzar	①	(xviii)	47	*Silybum marianum*	S, L	C1, C3	115
Biscogniauxia formosana, Y.M. Ju; J.D. Rogers	①	(xviii)	47	*Cinnamomum* sp.	B	C1	369
Biscogniauxia maritima, L. Vasilyeva	①	(xviii)	47	*Pinus koraiensis*	N	C1	350
Biscogniauxia mediterranea, (De Notaris) Kuntze	①	(xviii)	47	*Artemisia thuscula*	S	C6	569
Biscogniauxia nummularia, O. Kuntze	①	(xviii)	47	*Triticum aestivum, Fraxinus ornus*	O	C6	74, 589
Biscogniauxia sp.	①	(xviii)	47	*Quercus ilex, Toxicodendron vernicifluum*	B, T	C1, C6	151
Bispora sp.	①	(vii)	21	*Caesalpinia sappan, Pserrdotsuga menziesii*	L	C1	116
Bjerkandera adusta, P.A. Karsten	②	(i)	48	*Pinus thunbergii, Drimys winteri*	R	C1	177, 104

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Bjerkandera sp.	②	(i)	48	*Drimys winteri*	V	C4	101, 104
Blennoria sp.	①	(vii)	21	*Carpobrotus edulis*	L	C2	288
Bloxamia leucophihahrta, F. von Höhnel.	①	(x)	18	*Fagus sylvatica*	S	C6	101
Boeremia exigua, M.M. Aveskamp; J. de Gruyter; J.H.C. Woudenberg; G.J.M. Verkley; P.W. Crous	①	(v)	34	*A. marina, Fraxinus ornus*	L	C1	398, 589
Bostrichonema sp.	①	(vii)	21	*Pinus elliottii, Pinus massoniana*	N	C1	558
Botryodiplodia theobromae, N.T. Patouillard; G. de Lagerheim	①	(xviii)	14	*Carapa guianensis, Jacaranda* sp., *Kigelia pinnata*	S, L	C4	20, 55, 125, 158
Botryosphaeria australis, (Cooke) F. ak Petrak	①	(v)	6	*Holcus lanatus*	G	C6	315
Botryosphaeria dothidea, V. Cesati; G. De Notarisaris	①	(v)	6	*Eucalyptus grandis, Eucalyptus nitens, Toxicodendron vernicifluum, Fraxinus ornus*	L, S, X, B	C1.C2	1, 58, 87, 89, 134, 589
Botryosphaeria fusispora, J.K. Liu & K.D. Hyde,	①	(v)	6	*R. stylosa and R. mucronate.*	S, Z	C1	509
Botryosphaeria mamane, D.E. Gardner	①	(v)	6	*Garcinia mangostana, Bixa orellana*	L	C1	276
Botryosphaeria obtusa, R.A. Shoemaker	①	(v)	6	*Vitis vinifera*	U	C6	66
Botryosphaeria parva, S.R. Pennycook; G.J. Samuels	①	(v)	6	*Grapevine, Nothapodytes nimmoniana*	B	C6	81, 95, 131
Botryosphaeria rhodina, J.A. von Arx	①	(v)	6	*Bidens pilosa, Salacia oblonga.*	S	C1	42
Botryosphaeria rhodorae, F. von Höhnel	①	(v)	6	*Rhododendron*	L, S	C6	277
Botryosphaeria ribis, J.G. Grossenbacher; B.M. Duggar	①	(v)	6	Grapevine	S	C6	107, 131

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Botryosphaeria sp.	①	(v)	6	*Citrus aurantium, Heterosmilax japonica, Theobroma cacao*	C	C4,	33, 36, 42, 43, 60, 99, 145
Botryosphaeria stevensii, R.A. Shoemaker	①	(v)	6	*Vitis vinifera*	L, T, R	C6	66
Botryosphaeria tsugae, A. Funk	①	(v)	6	*Tsuga heterophylla*	W	C4,	89
Botryotinia fuckeliana, H.H. Whetzel	①	(x)	18	*Ajuga decumbens*	O	C1	66
Botrytis anthophila, Bondartsev	①	(x)	18	*Taraxacum coreanum*	S, R	C4, C3	294
Botrytis cinerea, C.H. Persoon	①	(x)	18	*Brassica napus, Sequoia sempervirens*	S, L, F	C1	66, 103, 161, 205
Botrytis fabae, Sardiña	①	(x)	18	*Espeletia*	L	C1	355
Botrytis sp.	①	(x)	18	*Cattlteya skinneri, Goupia glabra*	R	C1	20, 77, 103, 122, 125, 165
Brachysporiella setosa, M.B. Ellis	①	(xviii)	39	*Triticum aestivum*	O	C2	12
Buergenerula spartinae, J. Kohlmeyer; R.V. Gessner	①	(xviii)	23	*Oryza granulate*	S	C1	78
Bulgaria inquinans, (Persoon) E.M. Fries	①	(iii)	18	*Hymenoscyphus fraxineus*	U	C6	567
Bulgaria sp.	①	(iii)	18	*Potentilla fulgens*	O	C1	225
Byssochlamys nivea, R. Westling	①	(vi)	56	*Cathranthus roseus*	O	C7	358
Byssochlamys sp, R. Westling	①	(vi)	56	*Pseudotsuga menziesii*	R	C3	373
Byssomerulius sp., Parmasto	②	(i)	12	*T. cacao*	S, F	C4, C2	101, 102

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cadophora luteo-olivacea, T.C. Harrington; D.L. McNew	①	(iii)	21	*Vitis vinifera, Colobanthus quitensis*	S, L	C6	281
Cadophora malorum, W. Gams	①	(iii)	21	*Panax quinquefolium, Vitis vinifera*	R, S	C2	327, 281
Cadophora sp.	①	(iii)	21	*Microthlaspi* sp.	R	C2	121
Calcarisporium arbuscula, C.G.T. Preuss	①	(xviii)	20	*B. monosperma*	B	C1	394
Calonectria gracilis, P.W. Crous; M.J. Wingfield; Alfenas, A.C.	①	(xviii)	20	*Musa acuminata*	R	C1	364
Calonectria sp., G. De Notaris	①	(xviii)	20	*Euterpe oleracea*	L	C4	189
Calycina herbarum, S.F. Gray	①	(x)	18	*Dactylis glomerata*	G	C6	315
Camarops sp.	①	(xviii)	5	*Alibertia macrophylla*	L	C4	521
Camarosporium brabeji, S. Marincowitz; P.W. Crous; J.Z. Groenewald; M.J. Wingfield	①	(v)	34	*Pinus halepensis*	T, N	C6	83
Camarosporium bradgi	①	(v)	34	*Artemisia thuscula*	S	C6	569
Camarosporium leucadendri, S. Marincowitz; P.W. Crous; J.Z. Groenewald; M.J. Wingfield	①	(v)	34	*Aralia elata*	R	C1	437
Camarosporium sp.	①	(v)	34	*A. officinalis, Toxicodendron vernicifluum*	B	C1, C1	18, 60, 72
Campanella olivaceonigra, T.W. May, T.W.; A.E. Wood	②	(i)	1	*Phoenix dactylifera*	R	C6	446
Camporesia sambuci, G.J. Li; H.D. Hyde; R.L. Zhao, R.L	①	(xviii)	47	*Rhodomyrtus tomentosa*	NA	C3	472

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Campylospora chaetocladia, F.V. Ranzoni	⑥	(vii)	21	*C. viminea, E. adenophorum*	R	C1	458
Cancellidium pinicola, Yeung, Jeewon & K.D. Hyde	①	(xviii)	20	*Pinus massoniana*	N	C1	558
Candida oleophila, R. Montrocher	①	(xxvii)	37	*Rosa canina, Prunus domestica*	F	C6	429
Candida parapsilosis, M. Langeron; R.V. Talice	①	(xxvii)	37	*Anathallis sclerophylla*	L, S, R	C6	435
Candida sake, S.A. Meyer; D.G. Ahearn	①	(xxvii)	37	*Acrosiphonia arcta*	A	C3	309
Candida sp.	①	(xxvii)	37	*Orchis tridentata*	R, Q	C5	122, 159
Capnodium dermatum, D.R. Reynolds	①	(v)	8	*A. marina*	L	C1	88
Capnodium sp.	①	(v)	8	Mangroves	Not specified	C1	77
Catinula sp.	①	(xv)	18	*Impatiens chinensis*	S, L	C1	397
Cazia sp., J.M. Trappe	①	(xv)	31	*Huperzia serrata*	S, R, L	C1	176
Cenangium ferruginosum, E.M. Fries	①	(x)	18	*Pinus mugo, Pinus nigra, Pinus sylvestris*	L	C6, C6, C6	201
Cenangium sp.	①	(x)	18	*Pinus*	N	C6	29
Cephalosporium.sp.	①	(vii)	21	*Cordemoya integrifolia, Trachelospermum jasminoides*	L	C2	24, 112, 125, 148, 152, 100
Ceratobasidium albasitensis, V. González, O. Salazar, M.C. Julián, J. Acero, M.A. Portal, R. Muños, H. López-Córcoles, E. Gómez-Acebo, P. López.Fuster, V. Rubio	②	(i)	7	*Fragaria vesca*	R	C6	467

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Ceratobasidium cornigerum, D.P. Rogers	②	(i)	7	*Plantanthera obtusata*	L, T, F	C3	21, 66, 101
Ceratobasidium obscurum, D.P. Rogers	②	(i)	7	*Plantanthera obtusata*	L, T, F	C3	101
Ceratobasidium sp.	②	(i)	7	*Calanthe, Prasophyllum, Platanthera chlorantha, Pterostylis, Sarcochilus*	R	C6	21, 87
Ceratopycnidium baccharidicola, M.D. Bertoni; D. Cabral	①	(ix)	22	*Baccharis coridifolia*	N.S.	C4	177
Cercinella mucoroides	⑥	(vii)	21	*A. indica*	R, F	C1	415
Cercophora caudata, N. Lundqvist	①	(xviii)	39	*Withania somnifera*	T	C1	50
Cercophora coprophila, N. Lundqvist	①	(xviii)	39	*S. grandis*	L, R	C1	82
Cercophora mirabilis, L.L. Fuckel	①	(xviii)	39	*Taxus globosa*	O	C1	74
Cercophora sp.	①	(xviii)	39	*Dendrobium*	L, S, R	C3	122
Cercophora terricola, S. Ueda	①	(xviii)	39	*Theobroma gileri*	S	C4	102
Cercospora apii, G. Fresenius	①	(v)	8	*Glycine max*	L	C4	129
Cercospora beticola, P.A. Saccardo	①	(v)	8	*Glycine max*	L	C4	129
Cercospora canescens, G. Fresenius	①	(v)	8	*Gossypium hirsutum*	L	C3	46
Cercospora capsici, J.B. Ellis; G.B. Martin	①	(v)	8	*Gossypium hirsutum*	L	C3	46
Cercospora chrysanthemi, Heald, F.D.; F.A. Wolf	①	(v)	8	*Terminalia mantaly*	F, Z, S, B, R, R, B	C2	478

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cercospora flagellaris, J.B. Ellis; G.B. Martin	①	(v)	8	*Terminalia mantaly*	F, Z, S, B, R, R, B	C2	478
Cercospora guatemalensis, A.S. Muller, C. Chupp	①	(v)	8	*Glycine max*	L	C4	129
Cercospora iranica, Bakhshi, M; Arzanlou, M; Babai-ahari, A; Groenewald, J.Z; Braun, U; P.W. Crous	①	(v)	8	*Coffea arabica*	C, L	C3	454
Cercospora kikuchii, (T. Matsumoto & Tomoyasu) M.W. Gardner	①	(v)	8	*Gossypium hirsutum*	L, F	C3	46
Cercospora olivascens, P.A. Saccardo	①	(v)	8	*Terminalia catappa*	F, Z, S, B, R, R, B	C2	478
Cercospora piaropi, B.C. Tharp	①	(v)	8	*Glycine max*	L	C4	129
Cercospora pulcherrima, B.C. Tharp	①	(v)	8	*Calotropis procera*	L	C4	117
Cercospora sorghi, J.B. Ellis ; B.M. Everhart	①	(v)	8	*Pinus ponderosa*	L	C3	413
Cercospora sp.	①	(v)	8	*Glycine max, Phaseolus vulgaris*	L	C4	60, 98, 99, 122, 129, 141
Cercospora tezpurensis, M.K. Meghvansi, M.H. Khan, R. Gupta, V. Veer	①	(v)	8	*Coffea arabica*	C, L	C3	454
Cercospora zebrina, G.L. Rabenhorst	①	(v)	8	*Glycine max, Phaseolus vulgaris*	L	C4	129
Cercospora zinnia, Ellis & G. Martin	①	(v)	8	*Glycine max, Gossypium hirsutum*	L	C4, C3	46
Ceriporia lacerata, H. Suhara, N. Maekawa, S. Kaneko, T. Hattori, T.; K. Sakai, R. Kondo	②	(i)	48	*Cleistocalyx operculatus*	D	C1	262

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cerrena consors, (Berkeley) K.S. Ko & H.S. Jung	②	(i)	48	*Panax ginseng*	L	C1	136
Cerrena sp., S.F. Gray	②	(i)	48	*Zingiber officinale*	M	C1	345
Chaetomella raphigera, M.E. Swift	①	(x)	18	*Terminalia arjuna*	L	C1	193, 226
Chaetomella sp.	①	(x)	18	*Dendrobium*	L, S, R	C1	99
Chaetomidium arxii, G.L. Benny	①	(xviii)	39	*Silybum marianum, Diaporthe cotoneastri*	L, S, R, H	C1, C3	115
Chaetomidium sp.	①	(xviii)	39	*Maresia nana*	R	C6	300
Chaetomium aureum Chivers	①	(xviii)	39	*Livistona chinensis*	L, R, K	C1	581
Chaetomium atrobrunneum, L.M. Ames	①	(xviii)	39	*Altheae rosea*	L	C2	271
Chaetomium bostrychodes, W. Zopf	①	(xviii)	39	*Brassica napus*	R, S	C1	91
Chaetomium chiversii, J.A. von Arx; J. Guarro; M.J. Figueras	①	(xviii)	39	*Ephedra fasciculata*	S	C3	178
Chaetomium coarctatum, Sergeeva	①	(xviii)	39	*O. sanctum*	O	C1	449
Chaetomium cochliodes, F.J. Seaver	①	(xviii)	39	*Ulex europaeus.*	X	C6	184
Chaetomium crispatum, L.L. Fuckel	①	(xviii)	39	*Butea monosperma*	L, L	C1	51
Chaetomium cupreum, L.M. Ames	①	(xviii)	39	*Macleaya cordata*	L	C1	181,
Chaetomium dreyfussii, J.A. von Arx; J. Guarro; Figueras, M.J.	①	(xviii)	39	*Altheae rosea*	L	C2	271
Chaetomium elatum, Kunze	①	(xviii)	39	*Potentilla fulgens, Fagus sylvatica*	O	C1, C6	77, 109

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Chaetomium fibripilium, L.M. Ames	①	(xviii)	39	*Gmelina asiatica*	B	C1	329
Chaetomium funicola, M.C. Cooke	①	(xviii)	39	*Glycine max*	R, S, L	C4	129
Chaetomium fusiforme, A.H. Chivers	①	(xviii)	39	*Scapania verrucosa*	W	C1	183
Chaetomium globosum, E.M. Fries	①	(xviii)	39	*Adiantum capillus-veneris, Avicennia marina, Brassica napus, Cannabis sativaE. nitens, E. grandis, Ginkgo biloba, Gossypium hirsutum, Imperata cylindrica, Kigelia pinnata , Maytenus hookeri, Picrorhiza kurroa, Protium heptaphyllum Polysiphonia urceolata, Withania somnifera, Ulva pertusa, Vitis vinifera, Pinus halepensis, Prunus avium*	S, L, X	C1, C2, C1, C2, C3	6, 18, 46, 48, 50, 55, 64, 66, 75, 83, 85, 87, 90, 125, 138, 140, 156, 158, 164, 87, 129, 200, 272, 492
Chaetomium hexagonosporum, Carter, A.; D. Malloch	①	(xviii)	39	*Altheae rosea*	L	C2	158, 271
Chaetomium nigricolor, L.M. Ames	①	(xviii)	39	*C. amoena*	R	C1	411
Chaetomium pellucidum, K.S. Sergeeva	①	(xviii)	39	*Mediterranean Plants*	R	C6	300
Chaetomium piluliferum, J. Daniels	①	(xviii)	39	*Gossypium hirsutum*		C3	46
Chaetomium rectangulare, B. Asgari, R. Zare	①	(xviii)	39	*Silybum marianum*	L	C3	115
Chaetomium sp.	①	(xviii)	39	*Acalypha indica, Adenophora axilliflora, Avicennia marina, Artemisia annua, Canarium ovatum,*	L, M	C4, C1, C2, C1, C3	10, 12 17, 18, 38, 46, 50, 52, 57, 60, 66, 77,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				Crataegus monogyna, *Cymodocea serrulata*, *Cymodocea* sp., *Vitis vinifera*			87, 88, 99, 105, 117, 122, 158, 164, 175
Chaetomium spirale, W. Zopf	①	(xviii)	39	*B. Sacra*	S, L	C1	299
Chaetomium spiralis	①	(xviii)	52	*Bauhinia racemosa*	L	C1	344
Chaetomium spirochaete, F.J. Seaver	①	(v)	39	*Gracilaria edulis*	A	C6	131
Chaetomium subaffine, Sergeeva	①	(xviii)	39	Medicinal Plant	R, S	C1	484
Chaetomium variostiolatum, Carter, A.	①	(v)	39	*Altheae rosea*	L	C2	158, 271
Chaetomium verrucichaeta, Natarajan	①	(v)	39	Mangroves	L	C1	77
Chaetophoma sp.	①	(vii)	21	*Chamaecyparis thyoides*	L	C3	9, 12
Chaetosphaeria sp.	①	(xviii)	9	*Aphelandra tetragona*, *Elymus farctus*	G	C6	23
Chaetosphaeronema sp.	①	(v)	34	*Rhododendron*	S, L	C6	277
Chaetopsina sp.	①	(xviii)	20	*Keteleeria fortunei*	N	C1	558
Chalara sp.	①	(x)	18	*Artemisia vulgaris*, *Fucus vesiculosus*	S, L, F	C6	49, 161
Chalaropsis sp.	①	(x)	24	*Cephalotaxus mannii*	B	C1	523
Chalastospora gossypii, P.W. Crous; U. Braun; M.J. Wingfield; Wood, A.R.; Shin, H.-D.; B.A. Summerell; Alfenas, A.C. Cumagun, C.J.R.; J.Z. Groenewald	①	(v)	34	*Pinus halepensis*, *Prunus avium*	T, N	C6	83, 492

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Chaunopycnis alba, W. Gams	①	(xviii)	20	*Theobroma gilero*	S	C4	102
Chaunopycnis pustulata, G.F. Bills; J.D. Polishook; M.A. Goetz; R.F. Sullivan; J.F. Jr White	①	(xviii)	20	*Theobroma gilero*	S	C4	102
Chaunopycnis sp.	①	(xviii)	20	Grasses	O	C3	521
Chlamydomyces sp.	①	(vii)	21	*Cordemoya integrifolia*	L	C2	24
Chlorencoelia sp.	①	(x)	18	*Phaseolus vulgaris*	L	C4	207
Chloridium paucisporum, C.J.K. Wang; H.E. Wilcox	①	(xviii)	9	*Betula alleghansi*	R	C1	405
Chloridium preussii, W. Gams; V. Holubová-Jechová	①	(xviii)	9	*Euterpe oleracea*	L	C3	189
Chloridium sp.	①	(xviii)	9	*Azadirachta indica*	L	C4	121, 150, 156
Chloridium virescens, W. Gams; V. Holubová-Jechová	①	(xviii)	9	*Avicennia schaueriana*	L	C4	154
Chloroscypha chloromela, F.J. Seaver	①	(x)	18	*Redwoods, Sequoia sempervirens*	L	C3	191
Chloroscypha seaveri, F.J. Seaver	①	(x)	18	*Thuja plicata*	L	C3	201
Choiromyces aboriginum, J.M. Trappe	①	(xv)	31	*Phragmites australis*	L	C6	389
Chromelosporium fulvum, G.L. Hennebert; R.P. Korf	①	(xv)	31	*Centaurea stoebe*	W	C6	103
Chrysosporium merdarium, J.W. Carmichael	①	(vi)	56	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Chytriomyces hyalinus, J.S. Karling	①	(iv)	11	Submerged plants	R	C6	285
Cirrenalia pygmea, J. Kohlmeyer	①	(xviii)	24	*Rhizophora mucronata*	R	C1	395
Cirrenalia sp.	①	(xviii)	24	*Altheae rosea*	L	C2	271

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cistella sp.	①	(x)	18	*Saussurea involucrate*	R	C1	551
Cladobotryum sp.	①	(xviii)	20	*E. grandis*	L, X	C2	188
Cladonia arbuscula, (Wallroth) Flotow	①	(ix)	22	*Vaccinium myrtillus*	R	C6	178
Cladophialophora abundans, P. Feng, V.A. Vicente, M.J. Najafzadeh, A.H.G. Gerrits van den Ende, B. Stielow, H. Badali, W.A. Boeger & G.S. de Hoog	①	(vi)	10	*Dioscorea multiflora*	N	C1	525
Cladophialophora inabaensis, E. Usui, Y. Takashima, & K. Narisawa	①	(vi)	10	Eggplant	R	C1	524
Cladophialophora minutissima, M.L. Davey; R.S. Currah	①	(vi)	10	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C, W	C5	210
Cladophialophora sp.	①	(vi)	10	*Epiplema grandiflorum, Phaseolus vulgaris*	R, L	C5, C4	122
Cladophialophora yegresii	①	(vi)	10	Cactus	S	C4	198
Cladorrhinum bulbillosum, J. Mouchacca; W. Gams	①	(xviii)	39	*Cenchrus echinatus*	O	C4	145
Cladorrhinum foecundissimum, E. Marchal	①	(xviii)	39	*Agropyron* spp.	R	C4	403
Cladorrhinum sp.	①	(xviii)	39	Cotton	R	C4	12
Cladosporium acaciicola, M.B. Ellis	①	(v)	8	*Pachira insignis*	B	C1	390
Cladosporium allii, M.B. Ellis	①	(v)	8	*Triticum aestivum*	O	C6	311
Cladosporium apicale, M.J. Berkeley; C.E. Broome	①	(v)	8	*T. cordifolia*	O	C1	415

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cladosporium cladosporioides, G.A. de Vries	①	(v)	8	*Avicennia marina, A. officinalis, Calotropis procera, Ceriops decandra, Chamaecyparis thyoides, Coffea arabica, E. grandis, Glycine max, Gossypium hirsutum, Lumnitzera racemosa, Rhizophora apiculata, Silene dioica, Quercus cerris, Quercus petraea, Musa accuminata* ssp., *Cuscuta subinclusa*	L, X, T	C4, C6, C3, C1, C3, C2, C6, C6	3, 9, 13, 18, 22, 37, 46, 50, 58, 62, 65, 67, 91, 103, 106, 117, 120, 125, 129, 143, 146, 152, 152, 156, 166, 167, , 539, 542
Cladosporium colocasiae, Sawada	①	(v)	8	Soyabean	L	C4	322
Cladosporium colombiae, K. Schubert; A. Greslebin, J.Z. Groenewald; P.W. Crous	①	(v)	8	*Silybum marianum*	L, S, R, H	C3	78, 115
Cladosporium delicatulum, M.C. Cooke	①	(v)	8	Olive	L	C6	565
Cladosporium endophyticum, S. Tibpromma & K.D. Hyde	①	(v)	8	*Pandanus*	L	C1	559
Cladosporium epiphyllum, C.D.G. Nees von Esenbeck	①	(v)	8	*Acalypha indica*	L, S, R, L	C1	135
Cladosporium gossypiicola, N.M. Pidoplichko	①	(v)	8	*Glycine max*	L	C4	129
Cladosporium halotolerans, P. Zalar; G.S. de Hoog; J.H. Schroers; P.W. Crous; J.Z. Groenewald; N. Gunde-Cimerman	①	(v)	8	*Triticum aestivum*	O	C6	311

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cladosporium herbarum, H.F. Link	①	(v)	8	*Chamaecyparis thyoides, Lycopersicum esculentum, Triticum aestivum, Vitis vinifera*	L	C3	9, 66, 76, 103, 125, 175
Cladosporium iridis, G.A. de Vries	①	(v)	8	*Triticum aestivum*	O	C6	311
Cladosporium langeronii, P. Vuillemin	①	(v)	8	*Wollemia nobilis*	O	C6	253
Cladosporium laxicapitulatum, T. Matsushima	①	(v)	8	*C. arabica and C. robusta*	O	C4	412
Cladosporium macrocarpum, C.G.T. Preuss	①	(v)	8	*Eichhornia crassipes*	L, L	C1	382
Cladosporium maculicola, M. Morelet	①	(v)	8	*Populus tremula*	L	C6	201
Cladosporium musae, E.B. Martyn	①	(v)	8	*Musa acuminata*	L	C1	30
Cladosporium oxysporum, M.J. Berkeley; C.E. Broome	①	(v)	8	*Calotropis procera, Silene dioica*	L	C4, C6	90, 117, 145
Cladosporium perangustum, K. Bensch, ; J.Z. Groenewald; J. Dijksterhuis, M. Starink-Willemse, B. Andersen; B.A. Summerell, H.D. Shin, F. DuganM.; H.J. Schroers; U. Braun; P.W. Crous	①	(v)	8	*Acrosiphonia arcta*	A	C5	309
Cladosporium pseudocladosporioides, K. Bensch, P.W. Crous & U. Braun	①	(v)	8	Olive	L	C6	565
Cladosporium psoraleae, M.B. Ellis	①	(v)	8	*Rhizophora mucronata*	R	C1	395
Cladosporium ramotenellum, K. Schub., Zalar, P.W. Crous & U. Braun	①	(v)	8	*Festuca*	R	C3	512

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cladosporium silenes, P.W. Crous; K. Tanaka,; B.A. Summerell; J.Z. Groenewald	①	(v)	8	*Phaseolus vulgaris, Panax ginseng*	L	C4, C1	143
Cladosporium sp.	①	(v)	8	*Alnus, Ascophyllum nodosum, Alternanthera sessilis, Buddleja asiatica, Cinnamomum camphora, Cordemoya integrifolia, Cymodocea serrulata, Cymodocea* sp.	R, L, M	C6, C4, C1, C1, C1, C2, C1, C3	10, 12, 17, 24, 29, 33, 38, 46, 49, 51, 53, 57, 58, 61, 72, 77, 87, 88, 90, 98, 99, 106, 110, 112, 116, 117, 121, 122, 125, 129, 136, 145, 146, 155, 159, 160, 161, 164, 170, 175
Cladosporium sphaerosperum, O. Penzig	①	(v)	8	*Glycine max, Altheae rosea*	R, L	C2	125, 152, 175
Cladosporium tenuissimum, M.C. Cooke	①	(v)	8	*Coffea arabica, Phaseolus vulgaris*	L	C4	90, 132, 164,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cladosporium tenellum, K. Schubert, P. Zalar, P.W. Crous & U. Braun	①	(v)	8	Olive	L	C6	565
Cladosporium uredinicola, C. Spegazzini	①	(v)	8	*Gossypium hirsutum*	L	C3	46
Cladosporium cf. *asperulatum*, K. Bensch, J.Z. Groenewald; J. Dijksterhuis; Starink-Willemse, M.; B. Andersen; B.A. Summerell; H.D. Shin ; F. DuganM.; H.J. Schroers; U. Braun; P.W. Crous	①	(v)	8	*Opuntia humifusa*	S	C3	417
Claviriopsis aquatica, S.C. Sati, R. Pathak	①	(xviii)	20	*C. viminea, E. adenophorum*	R	C1	458
Clavispora lusitaniae, Rodrigues de Miranda, L.	①	(xxvii)	37	Submerged plants	R	C6	285
Clavulinopsis helvola, E.J.H. Corner	②	(i)	1	Submerged plants	R	C6	285
Clitocybula atroalba, R. Singer	②	(i)	1	*S. grandis*	L, R	C1	82
Clonostachys agrawalii, (Kushwaha) Schroers	①	(xviii)	20	*C. arabica and C. robusta*	O	C1	412
Clonostachys byssicola, H.J. Schroers	①	(xviii)	20	*Zanthoxylum bungeanum*	O	C4	332
Clonostachys cylindrospora, G. Arnaud	①	(xviii)	20	*Syzygium cumini*	R, S, L	C1	325
Clonostachys rosea, J.H. Schroers; G.J. Samuels; Seifert, K.A.; W. Gams	①	(xviii)	20	*Brassica napus, Goupia glabra, Prunus avium*	R S, L	C1	20, 106, 107, 492
Clonostachys solani, H.J. Schroers	①	(xviii)	20	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C1, C4	334
Clonostachys sp.	①	(xviii)	20	*Dendrobium nobile*	R, S, L	C4	20, 122, 170

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Clypeopycnis aeruginascens, F. Petrak	①	(vii)	21	*Acer truncatum*	L	C1	76
Clypeosphaeria sp.	①	(iii)	47	*Diospyros crassiflora*	S, L	C2	273
Coccomyces nipponicum	①	(x)	35	*Camellia japonica*	L	C1	173
Coccomyces sp.	①	(x)	35	*Pinus banksiana*	L	C3	201
Cochliobolus australiensis, J.L. Alcorn	①	(v)	34	*Bauhinia forficata*	L	C4	95
Cochliobolus bicolor, A.R. Paul; Parbery, D.G.	①	(v)	34	Soybean	L	C4	322
Cochliobolus geniculatus, R.R. Nelson	①	(v)	34	*Glycine max*	R, L	C4	129
Cochliobolus hawaiiensis, J.L. Alcorn	①	(v)	34	*Millingtoniahortensis, Tabebuia* sp.	L	C1	124, 145
Cochliobolus heterostrophus, C. Drechsler	①	(v)	34	*Taxus globosa*	O	C3	74
Cochliobolus kusanoi, J.F. Dastur	①	(v)	34	*Curcuma longa*	R	C1	417
Cochliobolus lunatus, R.R. Nelson	①	(v)	34	*Cannabis sativa, Boswellia ovalifoliolata*	T	C1	50, 95, 145
Cochliobolus sativus, J.F. Dastur	①	(v)	34	*Phaseolus vulgaris*	L	C4	12, 74
Cochliobolus sp.	①	(v)	34	*E. grandis, Gossypium hirsutum, Piptadenia adiantoides, Phaseolus vulgaris, Trixis vauthieri*	L	C4, C2, C3,	46, 122, 145
Cochliobolus spicifer, R.R. Nelson	①	(v)	34	*Cedrus deodara*	T	C1	50, 95
Cochliobolus victoriae, R.R. Nelson	①	(v)	34	*Avicennia marina*	L	C1	84
Cochlonema sp.	④	(vii)	54	*Terminalia arjuna*	B	C1	394
Cochlonema verrucosum, C. E. Drechsler	④	(vii)	54	*Crataeva magna*	B	C1	393

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Codinaeopsis gonytrichoides, G. Morgan-Jones	①	(xviii)	9	*Annona squamosa*	L, T, B, R	C1	86
Codinaeopsis sp.	①	(xviii)	9	Grass	U	C6	78
Coleophoma empetri, F. Petrak	①	(vii)	21	*Rhododendron*	L, S	C6	272, 277
Coleophoma oleae, F. Petrak; H. Sydow.	①	(vii)	21	*Keteleeria fortunei*	N	C1	558
Coleophoma sp.	①	(vii)	21	*Rhododendron*	L, S	C6	161
Coleophoma crateriformis, F. von Höhnel	①	(vii)	21	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4	334
Colletotrichum acutatum, J.H. Simmonds	①	(xviii)	52	*Neolitsea zeylanica, Fraxinus ornus*	L	C1	20, 34, 77, 589
Colletotrichum aeschynomenes, B.S. Weir; P.R. Johnston; U. Damm	①	(xviii)	52	*Coffea arabica*	C, L	C3	454
Colletotrichum alatae, Weir et al.	①	(xviii)	52	*Persea americana*	C	C3	367
Colletotrichum aotearoa, B.S. Weir; P.R. Johnston	①	(xviii)	52	*Boehmeria* sp.	L	C1, C7	540
Colletotrichum asianum, Prihastuti; L. Cai; K.D. Hyde	①	(xviii)	52	*Coffea arabica*	G	C1	54
Colletotrichum beeveri, U. Damm; P.F. Cannon,, P.R. Johnston; Weir, R.G.; P.W. Crous	①	(xviii)	52	*Pleione bulbocodioides, Podocar paceae*	R, L	C1, C7	540
Colletotrichum bletillum, G. Tao; Z.Y. Liu, Y.H. Gao, L.L. Cai	①	(xviii)	52	*Bletilla ochracea*	L	C1	540

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Colletotrichum boninense, J. Moriwaki, T. Sato, T. Tsukiboshi	①	(xviii)	52	*Glycine max, Phaseolus vulgaris*	L	C4	74, 95, 129, 144
Colletotrichum capsici, Butler, E.J.; Bisby, G. R	①	(xviii)	52	*Gossypium hirsutum*, Soybean	L	C3	148
Colletotrichum cariniferi	①	(xviii)	52	*D. cariniferum*	S	C1	546
Colletotrichum caudasporum, G. Tao; Z.Y. Liu; Y.H. Gao; L. Cai	①	(xviii)	52	*Bletilla ochracea*	O	C1	98
Colletotrichum caudatum, C. H. Peck,	①	(xviii)	52	Switchgrass	G	C2	159
Colletotrichum cereale, Manns	①	(xviii)	52	*Bletilla ochracea*	L	C1	540
Colletotrichum chiangraiense	①	(xviii)	52	*Dendrobium* sp.	R	C1	546
Colletotrichum circinans, (Berkeley) Voglino	①	(xviii)	52	*Phyllanthus amarus*	L	C1	344
Colletotrichum citricola, F. Huang, L. Cai, K.D. Hyde & Hong Y. Li	①	(xviii)	52	*Dendrobium* sp.	L	C1	546
Colletotrichum clidemiae, B.S. Weir; P.R. Johnston; U. Damm	①	(xviii)	52	*Clidemia hirta*	G	C3	54
Colletotrichum cliviae, Y.L. Yang; Liu, Z.Y.; K.D. Hyde; L. Cai	①	(xviii)	52	*Clivia miniata*, Tea	L, F	C1	54
Colletotrichum coccodes, S.J. Hughes	①	(xviii)	52	*Silene dioica*	L	C6	119
Colletotrichum coffeanum, F. Noack	①	(xviii)	52	Coffee	L	C3	132
Colletotrichum cordylinicola, L. Phoulivong; L. Cai; K.D. Hyde	①	(xviii)	52	*Cordyline fruticosa*	L	C1	54

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Colletotrichum crassipes, J.A. von Arx	①	(xviii)	52	*Phyllanthus amarus*	L	C1	90, 95
Colletotrichum dacrycarpi, U. Damm, P.F. Cannon, P.W. Crous, P.R. Johnston & B. Weir	①	(xviii)	52	*Dacrycarpus dacrydioide*	L	C7	540
Colletotrichum dematium, W.B. Grove	①	(xviii)	52	*Arabidopsis thaliana*	L, S, L	C6	2, 58, 154, 156, 158
Colletotrichum destructivum, P.J. O'Gara	①	(xviii)	52	*Arabidopsis thaliana*	L, S, L	C6	3, 58
Colletotrichum doitungense, X.Y. Ma, K.D. Hyde & Jayawardena	①	(xviii)	52	*Dendrobium* sp.	L	C1	546
Colletotrichum duyunensis, G. Tao, Zuo Y. Liu & L. Cai	①	(xviii)	52	*Bletilla ochracea*	O	C1	98
Colletotrichum endophytica, D.S. Manamgoda, D. Udayanga, L. Cai; E. Chukeatirote, K.D. Hyde	①	(xviii)	52	*P. purpureum*, Coffee	L, C	C1	54
Colletotrichum endophytum, G. Tao; Z.Y. Liu; Y.H. Gao; L. Cai	①	(xviii)	52	*Bletilla ochracea*	O	C1	98
Colletotrichum excelsum-altitudum, G. Tao, Zuo Y. Liu & L. Cai	①	(xviii)	52	*Bletilla ochracea*	O	C1	98
Colletotrichum falcatum, Went, F.A.F.C.	①	(xviii)	52	*Acalypha indica*, *Phyllanthus amarus*	L	C1	62
Colletotrichum fioriniae, R.G. Shivas; Y.P. Tan	①	(xviii)	52	*Hydrastis canadensis*, *Mangifera indica*	S	C3	368
Colletotrichum fragariae, A.N. Brooks	①	(xviii)	52	Soybean	L	C4	322

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Colletotrichum fructicola, Prihastuti; L. Cai; K.D. Hyde	①	(xviii)	52	*Glycine max*	L	C4	54, 129
Colletotrichum fructivorum, V.P. Doyle, P.V. Oudem., S.A. Rehner	①	(xviii)	52	*Bletilla ochracea*	L	C1	540
Colletotrichum gigasporum, E.F. Rakotoniriana & F. Munaut	①	(xviii)	52	*Dysosma versipellis*	S	C1	572
Colletotrichum gloeosporioides, Penzig & P.A. Saccardo	①	(xviii)	52	*Acalypha indica, Artemisia annua, Artemisia mongolica, Bruguiera cylindrica, Carapa guianensis, Calotropis procera, Chlorocardium rodiei, Coffea arabica, E. nitens, Goupia glabra, Glycine max, Kigelia pinnata, Jacaranda* sp.	C, L	C4, C6, C1, C4, C1, C1, C1	3, 12, 13, 17, 18, 20, 30, 33, 38, 54, 55, 62, 73, 74, 77, 80, 90, 92, 95, 107, 120, 125, 129, 132, 136, 144, 145, 150, 151, 153, 154, 156, 166, 173, 175
Colletotrichum graminicola, G.W. Wilson	①	(xviii)	52	*Zea mays*	R	C6	78

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Colletotrichum guizhouensis, G. Tao, Zuo Y. Liu & L. Cai	①	(xviii)	52	*Phlegmariurus phlegmaria*	L	C1	263
Colletotrichum higginsianum, B.B. Higgins	①	(xviii)	52	*Panax quinquefolium, Centella asiatica*	R, S	C1	110
Colletotrichum horii, B.S. Weir; P. R. Johnston	①	(xviii)	52	*Persimmon* sp.	G	C1	54
Colletotrichum ignotum, E.I. Rojas; S.A. Rehner, G.J. Samuels; S. Van Bael, E.A. Herre, P. Cannon, R. Chen, J. Pang, R. Wang, Y. Zhang, Y.Q. Peng, T. Sha,	①	(xviii)	52	*Theobroma cacao, Zamia*	L	C3	526
Colletotrichum jiangxiense, F. Liu and L. Cai	①	(xviii)	52	*Dendrobium harveyanum*	L	C1	546
Colletotrichum kahawae, J.M. Waller, P.D. Bridge,R. Black, G. Hakiza	①	(xviii)	52	*Coffea arabica*	L, S	C2	54, 95
Colletotrichum karstii, Y.L. Yang; L. Cai; Z.N. Yu, Z.Y. Liu, K.D. Hyde	①	(xviii)	52	*Glycine max, Taxus x media*	L	C4	129, 144
Colletotrichum lindemuthianum, G. Briosi, F. Cavara	①	(xviii)	52	*Rubia cordifolia*	S, R	C1	95
Colletotrichum linicola, G.H. Pethybridge; A.H. Lafferty	①	(xviii)	52	*Panax quinquefolium*	R, S	C1	58
Colletotrichum liriopes, U. Damm, P.F. Cannon, P.W. Crous	①	(xviii)	52	*Bletilla ochracea*	L	C1	540
Colletotrichum lupini, U. Damm; P.F. Cannon,; J.H.C. Woudenberg, P.W. Crous	①	(xviii)	52	Soybean	L	C4	322

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Colletotrichum miscanthi, J.A. Crouch, B.B. Clarke, J.F. White & B.I. Hillman	①	(xviii)	52	*Bletilla ochracea*	L	C1	540
Colletotrichum musae, J.A. von Arx	①	(xviii)	52	*Musa accuminata* ssp.	L	C7, C1, C1, C1	13, 17, 31, 54, 158, 204
Colletotrichum novaezelandiae, J.H.C.; P.R. Johnston; B.S. Weir; Y.P. Tan; R.G. Shivas; P.W. Crous	①	(xviii)	52	*Marchantia polymorphathalli*	S	C1	444
Colletotrichum ochracea, G. Tao; Z.Y. Liu; Y.H. Gao; Cai, L	①	(xviii)	52	*Bletilla ochracea*	O	C1	98
Colletotrichum orbiculare, Damm, P.F. Cannon & P.W. Crous	①	(xviii)	52	*Carapa guianensis*	S, L	C4	20, 95
Colletotrichum orchidophilum, M.R. Sousa Dias, M. Sousa da Câmara	①	(xviii)	52	*Dendrobium harveyanum*	L	C1	546
Colletotrichum panacicola, Nakata & S. Takimoto	①	(xviii)	52	*Panax ginseng*	L	C1	136, 162
Colletotrichum pandanicola, S. Tibpromma & K.D. Hyde	①	(xviii)	52	*Pandanus*	L	C1	559
Colletotrichum parallelophorum, X.Y. Ma, K.D. Hyde & Jayawardena	①	(xviii)	52	*Dendrobium* sp.	R, S, L	C1	546

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Colletotrichum parsonsiae, U. Damm, P.F. Cannon, P.W. Crous, P.R. Johnston & B. Weir	①	(xviii)	52	*Bletilla ochracea*	L	C1	540
Colletotrichum petchii, U. Damm; P.F. Cannon,; J.H.C. Woudenberg; P.R. Johnston; B.S. Weir; Y.P. Tan; R.G. Shivas, P.W. Crous	①	(xviii)	52	*Taxus x media*	B, L	C1	144
Colletotrichum psidii, M. Curzi	①	(xviii)	52	*Psidium* sp.	G	C6	54, 162
Colletotrichum queenslandicum, B.S. Weir; P.R. Johnston; U. Damm	①	(xviii)	52	*Carica papaya, L. tomemtosa*	L	C7	54
Colletotrichum rhexiae	①	(xviii)	52	*Vaccinium macrocarpon*	F	C3	540
Colletotrichum salsolae, B.S. Weir; P.R. Johnston; U. Damm	①	(xviii)	52	*Salsola tragus*	N.S.	C6	54
Colletotrichum siamense, Prihastuti; L. Cai; K.D. Hyde	①	(xviii)	52	*Nymphaea nouchali, Alpinia officinarum*	L, M	C1	54, 71
Colletotrichum simmondsii, R.G. Shivas; Y.P. Tan	①	(xviii)	52	*Jasminum* sp.	L	C1	54
Colletotrichum sp.	①	(xviii)	52	*Avicennia marina, Alpinia officinarum, Artimisia annua, Banksia integrifolia, Betula, Bletilla ochracea, Bruguiera cylindrica, Camptotheca acuminata, Ceriops decandra, Citrus plants, Cinnamomum camphora, Coffea arabica, cocoa, Cordemoya ,*	L, M, C	C7, C4, C1, C1, C1, C1, C2	18, 28, 30, 31, 32, 45, 7, 20, 24, 29, 32, 43, 51, 56, 57, 58, 60, 66, 69, 71, 76,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				Trachycarpus fortune integrifolia, Excoecaria agallocha, Ginkgo biloba, Huperzia serrata, Vitis vinifera Jatropha curcas, Lumnitzera racemosa, Panax ginseng, Pasania edulis, Phaseolus vulgaris, Plumeria rubra, Taxus mairei, Tectona grandis, Triticum aestivum, Tectona grandis, Thalassia sp.			77, 80, 84, 87, 59194, 95, 96, 98, 99, 108, 110, 116, 117, 122, 125, 126, 136, 150, 151, 152, 158, 161,
Colletotrichum taiwanense, A. Sivanesan; W.H. Hsieh	①	(xviii)	52	*Passiflora incarnata*	L	C1	366
Colletotrichum temperatum, V.P. Doyle, P.V. Oudem., S.A. Rehner	①	(xviii)	52	*Vaccinium macrocarpon*	S	C3	540
Colletotrichum theobromicola, G. Delacroix,	①	(xviii)	52	*Theobroma cacao*	L	C3	54
Colletotrichum ti, B.S. Weir; P.R. Johnston; U. Damm	①	(xviii)	52	*Coffea arabica*	C, L	C3	454
Colletotrichum tofieldiae, U. Damm; J.H.C. Woudenberg; P.F. Cannon,; P.W. Crous	①	(xviii)	52	*Arabidopsis thaliana*	L, S, L	C6	58
Colletotrichum trifolii, Bain, S.M.; Essary, S.H.	①	(xviii)	52	*Echinacea purpurea*	R	C3	95
Colletotrichum tropicale, E.I. Rojas; S.A. Rehner, G.J. Samuels; S. Van Bael, E.A. Herre, P.	①	(xviii)	52	*Nymphaea nouchali*	L	C1	54

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cannon, R. Chen, J. Pang, R. Wang, Y. Zhang, Y.Q. Peng, T. Sha							
Colletotrichum truncatum, C.F. Andrus, W.D. Moore	①	(xviii)	52	*Tylophora indica, Artemisia* species	S, L	C1	52, 95, 148
Colletotrichum viniferum, Li J. Peng, L. Cai, K.D. Hyde & Zi Y. Ying	①	(xviii)	52	*Vitis vinifera*	S	C1	54
Colletotrichum watphraense, X.Y. Ma, K.D. Hyde & Jayawardena	①	(xviii)	52	*Dendrobium* sp.	S	C1	546
Colletotrichum xanthorrhoeae, R.G. Shivas; J. Bathgate, F.D. Podger	①	(xviii)	52	*Xanthorrhoea preissii*	L	C6	54
Colletotrichum yunnanense, X.Y. Liu, X.M. Xie, J.X. Duan	①	(xviii)	52	*Buxus* sp.	L	C1	177
Collophora paarla, Damm & P.W. Crous	①	(x)	21	*Prunus avium, P. cerasus*	F	C1	494
Colpoma quercinum, C.F.W. Wallroth	①	(x)	35	*Quercus petraea, Quercus robur*	T	C6, C6	1
Coniella minima, B.C. Sutton	①	(xviii)	14	Eucalyptus globulus	S	C4	305
Coniella sp.	①	(xviii)	14	*Opuntia*	S	C4	20, 29
Coniochaeta ligniaria, G.E. Massee	①	(xviii)	39	*Panax ginseng*	L	C1	87, 109, 136
Coniochaeta sp.	①	(xviii)	39	*Chamaecyparis thyoides, Ulex europaeus*	S, L	C6, C3	9, 136

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Coniochaeta tetraspora, R.F. Cain	①	(xviii)	39	*Chamaecyparis thyoides, Ulex europaeus*	S, L	C6, C3	9
Coniochaeta velutina, M.C. Cooke	①	(xviii)	39	*Tsuga heterophylla*	S	C1	474
Coniolariella gamsii, D. García; A.M. Stchigel, J. Cano, M. Calduch, D.L. Hawksworth; J. Guarro	①	(xviii)	47	*Gossypium hirsutum*	L, F	C3	46
Coniophora puteana, P.A. Karsten	②	(i)	30	*Fagus sylvatica*	S	C6	101
Coniosporium sp.	①	(vi)	10	*Coffea arabica*	L	C3	12, 29, 49, 76, 129, 161, 164
Coniothyrium aleuritis, Teng	①	(v)	34	*Gossypium hirsutum*	L	C3	3
Coniothyrium carteri, J. De Gruyter, J.H.C. Woudenberg; M.M. Aveskamp; G.J.M. Verkley; J.Z. Groenewald; P.W. Crous	①	(v)	34	*Eucalyptus globulus*	V	C6	479
Coniothyrium cereale, E. Müller	①	(v)	34	*Enteromorpha* sp.	A, G	C6	287
Coniothyrium diplodiella, P.A. Saccardo	①	(v)	34	*T. chinensis*	S	C1	234
Coniothyrium fraxini, Miura	①	(v)	34	*Fraxinus excelsior*	C	C6, C6	418
Coniothyrium fuckelii, P.A. Saccardo	①	(v)	34	*Acer saccharum*	S, L	C3	37
Coniothyrium nitidae, L. Swart, P.W. Crous; S. Denman, M.E. Palm	①	(v)	34	*A. sinensis*	V	C1	164

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Coniothyrium olivaceum, L.L. Fuckel	①	(v)	34	*Ulex europaeus, Acer truncatum, Prunus cerasus*	S	C6	76, 494
Coniothyrium palmarum, A.C.J. Corda	①	(v)	34	*Lamium purpureum*	O	C6	204, 205
Coniothyrium sp.	①	(v)	34	*Fucus serratus, Fucus vesiculosus, Glycine max, Gossypium hirsutum, Potentilla erecta, Triticum aestivum, Ulex europaeus*	L, S	C4, C6, C2, C3, C6	100
Coniothyrium sporulosum, (W. Gams & Domsch) Aa	①	(v)	34	Mediterranian Tree	R	C6	300
Conocybe sp.	②	(i)	1	*Gastrodia confusa*	R	C1	122, 169,
Conoplea fusca, C.H. Persoon	①	(xv)	31	*Sequoia sempervirens, Taxus globosa*	L, F	C3, C3	74
Conostroma didymum, G. von Moesz	①	(x)	35	*Quercus liaotungensis*	L, T	C1	1
Cophinforma mamane, (D.E. Gardner) A.J.L. Phillips & A. Alves	①	(v)	6	*Catharanthus roseus*	L	C1	563
Coprinellus auricomus, N.T. Patouillard	②	(i)	1	*Panicum virgatum*	R	C3	78
Coprinellus disseminatus, J.E. Lange	②	(i)	1	*Theobroma gileri*	S	C4	87, 102
Coprinellus domesticus, S.A. Redhead; R. Vilgalys; J.-M. Moncalvo; J. Johnson; J.S. Jr. Hopple	②	(i)	1	*Taxus globosa*	O	C3	74
Coprinellus micaceus, S.A. Redhead; R. Vilgalys; J.-M. Moncalvo; J. Johnson; J.S. Jr. Hopple	②	(i)	1	*Broussonetia papyrifera, Celtis occidentalis* and *Ligustrum lucidum*	S	C4	90

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Coprinellus radians, S.A. Redhead; R. Vilgalys; J.-M. Moncalvo; J. Johnson; J.S. Jr. Hopple	②	(i)	1	*Glycine max, Solanum cernuum*	L	C4	1, 76, 129
Coprinellus sp.	②	(i)	1	*Theobroma gileri, T, cacao*	S, F	C4, C2	101, 102
Coprinopsis cinerea, S.A. Redhead; R. Vilgalys; J.-M. Moncalvo; J. Johnson; J.S. Jr. Hopple	②	(i)	1	*Eugenia jambolana*	L, L, S, W	C1	250
Coprinopsis sp.	②	(i)	1	Medicinal Plant	T	C1	60
Coprinus auricomus, N.T. Patouillard	②	(i)	1	Grass	U	C4	417
Coprinus micaceus, E.M. Fries	②	(i)	1	*Holcus lanatus*	G	C6	315
Coprinus sp.	②	(i)	1	*Canarium ovatum, Platanthera chlorantha*	R, S, L	C6, C1	103
Corallomycetella repeens, Rossman & Samuels	①	(xviii)	20	*Hevea brasiliensis*	L, S	C4	167
Cordana musae, F. von Höhnel	①	(iii)	21	*Musa acuminata*	S	C1	17, 30
Cordyceps bassiana, Li, Z.-Z.; Li, C.-R.; Huang, B.; Fan, M.-Z	①	(xviii)	20	*Dactylis glomerata, Ammophila arenaria, Elymus farctus, Holcus lanatus*	G	C6	315
Cordyceps brongniartii, M. Shimazu; W. Mitsuhashi, H. Hashimoto	①	(xviii)	20	*Oryza granulate*	S	C1	353
Cordyceps nutans, N.T. Patouillard	①	(xviii)	20	*Capsicum annuum*	L, S, R	C1	339
Cordyceps sinensis, P.A. Saccardo	①	(xviii)	20	*Theobroma gileri*	S	C4	86, 100, 102

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cordyceps sobolifera, M.J. Berkeley; C.E. Broome	①	(xviii)	20	*Theobroma cacao*	C	C4	33
Cordyceps sp.	①	(xviii)	20	*Ulva intestinalis*	A	C6	49
Coriolopsis caperata, W.A. Murrill	②	(i)	48	*Salacia oblonga*	B	C1	240
Coriolopsis gallica, L. Ryvarden	②	(i)	48	*Triticum aestivum*	O	C6	311
Coriolopsis sp.	②	(i)	48	*Theobroma gileri*	S	C4	101
Corollospora sp.	①	(xviii)	24	*Sargassum* sp.	A	C3	422
Cortinarius sp.	②	(i)	1	*Epipactis microphylla*	R	C6	122
Corynespora cambrensis, M.B. Ellis	①	(v)	34	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Corynespora cassiicola, C.T. Wei	①	(v)	34	*Gossypium hirsutum*	L, F	C3	92, 151, 158
Corynespora proliferata, W.M. Loerakker	①	(v)	34	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Corynespora smithii, M.B. Ellis	①	(v)	34	*Aralia elata*	R	C1	437
Corynespora sp.	①	(v)	34	*Plumeria rubra*	L	C1	32, 77
Corynespora subcylindrica, V.M. Siqueira, U. Braun & Souza-Motta	①	(v)	34	*Lippia sidoides*	L, S	C4	487
Coryneum sp.	①	(xviii)	14	*Picea*	N	C3	29
Cosmospora sp.	①	(xviii)	20	*Holcoglossum*	R	C1	122

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Creosphaeria sassafras, Y.M. Ju; San Martín González, F.; J.D. Rogers	①	(xviii)	47	*Dactylis glomerata*	G	C6	315
Crinipellis roreri, H.C. Evans; K. Holmes, W. Phillips, J.M. Wilkinson	②	(i)	1	*Theobroma cacao*	C	C4	101
Crinipellis sp.	②	(i)	1	*Phaseolus vulgaris*	L	C4	207
Cristulariella depraedans, F. von Höhnel	①	(x)	18	*Acer saccharum*	L, L	C3	341
Crucellisporiopsis marquesiae, P.W. Crous	①	(vii)	21	*Vellozia gigantea*	R, L	C4	478
Crumenolopsis pinicola	⑥	(vii)	21	*Pinus sylvestris*	C	C6, C6	418
Cryphonectria cubensis, C.S. Hodges	①	(xviii)	14	*Rosmarinus officinalis*	R	C6	379
Cryphonectria havanensis, M.E. Barr	①	(xviii)	14	*Rosmarinus officinalis*	R	C6	6
Cryphonectria parasitica, M.E. Barr	①	(xviii)	14	*Rosmarinus officinalis*	R	C6	6
Cryphonectria radicalis, M.E. Barr	①	(xviii)	14	*Rosmarinus officinalis*	R	C6	425
Cryptendoxyla hypophloia, D. Malloch; R.F. Cain	①	(xviii)	39	*Tragia involucrata*	S	C1	574
Cryptocline abietina, F. Petrak	①	(x)	18	*Abies alba, Abies magnifica, Picea mariana*	L	C6	201
Cryptocline sp.	①	(x)	18	*Abies concolor, Abies grandis, Abies lasiocarpa, Tsuga heterophylla, Sequoia sempervirens*	L	C3, C3, C3	201
Cryptococcus albidus, C.E. Skinner	②	(xix)	49	*Rosa canina, Prunus domestica*	F	C4, C1	429

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cryptococcus chernovii, Á. Fonseca, Scorzetti & Fell	②	(xix)	49	*Phragmites australis*	L	C6	389
Cryptococcus flavescens, C.E. Skinner	②	(xix)	49	*Opuntia humifusa*	S	C6	417
Cryptococcus laurentii, C.E. Skinner	②	(xix)	49	*Monostroma hariotii*	A	C3	309
Cryptococcus magnus, J. N. Baptist, C.P. Kurtzman	②	(xix)	49	*Rosa canina*, *Prunus domestica*	F	C5	429
Cryptococcus paraflavus, Golubev, W.I.; Sampaio	②	(xix)	49	*Dactylis glomerata*	G	C6	315
Cryptococcus podzolicus, (Babeva & Reshetova) Golubev, V.I.	②	(xix)	49	*Dactylis glomerata*	G	C6	87
Cryptococcus sp.	②	(xix)	49	*Brassica napus*, *Phaseolus vulgaris*	S, L	C6	98, 121, 122
Cryptococcus stepposus, W.I. Golubev, J.P. Sampaio	②	(xix)	49	*Actinidia deliciosa*	F	C3	542
Cryptococcus victoriae, M.J. Montes, Belloch, Galiana, M.D. García, C. Andrés, S. Ferrer, Torr. -Rodr. & J. Guinea	②	(xix)	49	*Ammophila arenaria*, *Carissa macrocarpa*	R	C6	100, 542
Cryptococcus wieringae, Á. Fonseca, Scorzetti & Fell	②	(xix)	49	*Rosa canina*, *Prunus domestica*	F	C6	429
Cryptococcus zeae, O. Molnár, H. Prillinger	②	(xix)	49	*Phaseolus vulgaris*	L	C4	207
Cryptodiaporthe aesculi, (Fuckel L.) F. ak Petrak	①	(xviii)	14	*Acer truncatum*	L	C1	1

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cryptodiaporthe castanea, L.E. Wehmeyer	①	(xviii)	14	*Castanea sativa*	T	C6	201
Cryptodiaporthe hystrix, F. Petrak	①	(xviii)	14	*Acer macrophyllum, Acer pseudoplatanus*	L, T	C6, C4, C6	201
Cryptodiaporthe salicella, F. Petrak	①	(xviii)	14	*Salix fragilis*	T	C6	76
Cryptodiaporthe sp.	①	(xviii)	14	*Pinus, Betula platyphylla*	L, T	C1	29, 76
Cryptospora betulae, Tulasne, L.R; C. Tulasne	①	(xviii)	14	*Betula pendula*	C	C6, C6	418
Cryptospora suffusa, L.R. Tulasne, C. Tulasne	①	(xviii)	14	*Alnus glutinosa*	C	C6, C6	418
Cryptosporiopsis abietina, F. Petrak	①	(x)	18	*Sequoia sempervirens*	L	C3	191
Cryptosporiopsis ericae, Sigler	①	(x)	18	*Abies balsamea, Picea abies, Populus tremuloides*	R	C6	130
Cryptosporiopsis fasciculala, F. Bubák; J.E. Kabát	①	(x)	18	*Fagus sylvatica*	S	C6	101
Cryptosporiopsis malicoticis, F. Petrak	①	(x)	18	N.S.	Not specified	Notspecified	182
Cryptosporiopsis quercina, F. Petrak	①	(x)	18	*Cryptosporiopsis quercina, Tripterygium wilfordii*	B	C6	158
Cryptosporiopsis radicicola, T. Kowalski, C. Bartnik	①	(x)	18	*Fragaria vesca*	R	C6	467
Cryptosporiopsis rhizophila, G.J.M. Verkley & Zijlstra	①	(x)	18	*E. tetralix*	R	C6	490

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cryptosporiopsis sp.	①	(x)	18	*Chamaecyparis thyoides, Musa accuminata* ssp.	L	C7, C1, C3	9, 13, 77, 87, 122, 125, 152, 200, 204
Crytophiale guadalcanalensis, K.A. Pirozynski	①	(vii)	21	*Pinus elliottii, Pinus massoniana*	N	C1	558
Cucurbitaria coronillae, P.A. Saccardo	①	(v)	34	*Sequoia sempervirens*	L, F	C3	191
Cudonia lutea, P.A. Saccardo	①	(x)	18	*Platycladus orientalis*	L	C3	413
Cumulospora marina, I. Schmidt	①	(vii)	21	*Acanthus ilicifolius*	R	C1	192
Cunnighamella echinulata, Thaxter ex Blakeslee	⑧	(vii)	26	*Humboldtia brunonis*	L, S	C1	498
Cunninghamella blaksleeana, A. Lendner	⑧	(vii)	26	*Acalypha indica*	L, S, R, L	C1	135
Cunninghamella elegans, A. Lendner	⑧	(vii)	26	*Dactylis glomerata*	G	C6	315
Cunninghamella sp,	⑧	(vii)	26	*Cinnamomum meradoi*	B	C1	471
Curvularia aeria, (Batista, J.A. Lima & C.T. Vasconcelos) Tsuda	①	(v)	34	*Monarda citriodora*	L, R, Z	C1	360
Curvularia affinis, K.B. Boedijn	①	(v)	34	*Rhizophora mucronata*	L	C1	508
Curvularia boejidin, K.B. Boedijn	①	(v)	34	*Andrographis peniculata*	O	C1	148
Curvularia brachyspora, K.B. Boedijn	①	(v)	34	*Dendrobium crumenatum*	O	C1	62
Curvularia catanulata, S.M. Reddy, K.S. Bilgrami	①	(v)	34	*A. indica*	R, F	C1	415
Curvularia clavata, B.L. Jain	①	(v)	34	*Humboldtia brunonis*	L, S	C1	498

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Curvularia eragrostidis, J.A. Meyer	①	(v)	34	*Litsea floribunda*	L, B	C1	414
Curvularia fallax, K.B. Boedijn	①	(v)	34	*Nyctanthes arbor-tristis*	L, S	C1	156
Curvularia geniculata, K.B. Boedijn	①	(v)	34	*Kigelia pinnata*	L, B	C1	380
Curvularia heteropogonicola, J.L. Alcorn	①	(v)	34	*Echinochloa*	G	C1	95
Curvularia inaequalis, C.L. Shear	①	(v)	34	*Ammophila arenaria*, *Elymus farctus*, *Holcus lanatus*	G	C6	95, 160, 87,
Curvularia intermedia, K.B. Boedijn	①	(v)	34	*Echinochloa*	G	C1	438
Curvularia lunata, K.B. Boedijn	①	(v)	34	*A. officinalis*, *Lumnitzera racemosa*, *Kigelia pinnata*, *Avicennia marina*, *R. apiculata*	S, L	C1	18, 22, 51, 55, 73, 77, 84, 125, 148, 158
Curvularia oryzae, K.B. Boedijn	①	(v)	34	Soybean	L	C4	91, 145
Curvularia ovoidea, M. Muntañola-Cvetkovic	①	(v)	34	*Eichhornia crassipes*	L, L	C1	382
Curvularia pallescens, K.B. Boedijn	①	(v)	34	*Artemisia annua*, *Avicennia marina*, *Calotropis procera*, *Euterpe olerace*, *Lumnitzera racemosa*, *Rhizophora apiculata*	L	C4, C4, C1	18, 22, 117, 588, 189
Curvularia papendorfii, K.B. Boedijn	①	(v)	34	*Nymphaea nouchali*	L	C1	324
Curvularia prasadii, R.L. Mathur, B.L. Mathur	①	(v)	34	*Acorus calamus*	O	C1	148
Curvularia protuberata, R.R. Nelson	①	(v)	34	*Dichanthelium lanuginosum*	W	C3	145

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Curvularia sichuanensis, Meng Zhang & T.Y. Zhang	①	(v)	34	*Cenchrus ciliaris*	L, S, R	C4	145
Curvularia sp., K.B. Boedijn	①	(v)	34	*Canarium ovatum, cocoa, Cymodocea serrulata, Cymodocea* sp.	L, S, C, X, M	C7, C4, C1, C1, C1, C1, C2, C1	129
Curvularia spicifera, M.G. Bainier	①	(v)	34	*A. subulata*	S	C1	484
Curvularia trifolii, K.B. Boedijn	①	(v)	34	*Glycine max*	R	C4	62
Curvularia tuberculata, B.L. Jain	①	(v)	34	*Turbinaria* sp.	A	C1	330
Curvularia vermiformis	①	(v)	34	*Adathoda vasica*	W	C1	13, 17, 22, 30, 32, 42, 45, 57, 77, 105, 109,112, 117, 122, 129,
Cyanodermella asteris, L. Jahn & J. Ludwig-Müller	①	(ix)	50	*Aster tataricus*	Z	C6	439
Cyanodermella sp.	①	(ix)	50	*Tetradium ruticarpum*	O	C6	60
Cyathicula sp.	①	(x)	18	*Dactylis glomerata*	G	C6	315

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cyclaneusma minus, F. DiCosmo; H. Peredo, D.W. Minter	①	(ix)	35	*Pinus lambertiana*, *Pinus mugo*, *Pinus sylvestris*	L	C3, C6	201
Cyclaneusma niveum, F. DiCosmo; H. Peredo, D.W. Minter	①	(ix)	35	*Pinus nigra*	L	C6	201
Cyclaneusma sp.	①	(ix)	35	*Pinus attenuata*	L	C3	29
Cyclothyrium sp.	①	(v)	21	*Acer truncatum*	L	C1	58, 76
Cylindrocarpon aquaticum, L. Marvanová; E. Descals	①	(xviii)	20	*C. viminea*, *E. adenophorum*	R	C1	458
Cylindrocarpon destructans, (Zinssmeister) Scholten	①	(xviii)	20	*Alnus glutinosa*	R	C6	66, 162, 333
Cylindrocarpon homophilatum	①	(xviii)	20		R	C6	300
Cylindrocarpon murorum	①	(xviii)	20		R	C6	300
Cylindrocarpon liriodendra, J.D. MacDonald & E.E. Butler	①	(xviii)	20	*Dysosma versipellis*	M	C1	572
Cylindrocarpon olidum, H.W. Wollenweber	①	(xviii)	20	*Fragaria vesca*	R	C6	467
Cylindrocarpon pauciseptatum, Schroers & P.W. Crous	①	(xviii)	20	*Actinidia macrosperma*	S, R, L	C1	314
Cylindrocarpon sp.	①	(xviii)	20	*Holcoglossum*, *Fagus sylvatica*	R	C1, C6	2, 77, 98, 122
Cylindrocephalum sp.	①	(vii)	21	*C. aloifolium*	O	C1	467

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cylindrocladium sp.	①	(xviii)	20	*Cinnamomum malabatrum*	L	C1	329
Cylindrodendrum alicantinum, C. Agusti-Brisach, J. Armengol & A. Cabral	①	(xviii)	20	*Fragaria vesca*	R	C6	467
Cylindrosporium sp.	①	(x)	18	*Rhododendron*	S, L	C6	277
Cylindrotrichum sp.	①	(xviii)	9	*Dactylis glomerata*	G	C6	315
Cyphellophora laciniata, G.A. de. Vries,	①	(vi)	10	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C	C5	308
Cystobasidium slooffiae, A.M. Yurkov, A. Kachalkin, H.M. Daniel, M. Groenewald, D. Libkind, V. de Garcia, P. Zalar, D. Gouliamova, T. Boekhout & D. Begerow	②	Cysto(xxvi)	78	*Dendrobium officinale*	R, S, L	C1	321
Cystodendron dryophilum, F. Bubák	①	(x)	18	*Ulex europaeus*	B, X	C6	184
Cystofilobasidium capitatum, Oberwinkler & Bandoni	②	(xix)	13	*Rosa canina, Prunus domestica*	F	C6	429
Cystofilobasidium macerans, J.P. Sampaio	②	(xix)	13	*Dactylis glomerata*	G	C6	315
Cytonaema sp.	①	(vii)	21	*Quercus* sp.	X	C2	125, 158
Cytospora abietis, P.A. Saccardo	①	(xviii)	14	*Sonneratia caseolaris*	R	C1	395
Cytospora chrysosperma, E.M. Fries	①	(xviii)	14	*Triticum aestivum, Pisum sativum*	O	C6	66

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Cytospora eucalypticola, Van der Westhuizen, G.C.A.	①	(xviii)	14	*E. nitens, E. grandis*	S, X, L	C2	188
Cytospora rhizophorae, J. Kohlmeyer; E. Kohlmeyer	①	(xviii)	14	*R. stylosa and R. mucronate.*	S	C1	509
Cytospora sp.	①	(xviii)	14	*Conocorpus erecta, Phaseolus vulgaris*	L	C4, C4	71, 152
Dactylaria fusiformis, Shearer & J.L. Crane	①	(x)	18	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Dactylaria purpurella, P.A. Saccardo	①	(x)	18	*Acanthus ilicifolius*	B	C1	395
Dactylaria sp.	①	(x)	18	*Musa acuminata*	R	C1	17, 100
Dactylonectria, L. Lombard & P.W. Crous	①	(xviii)	20	*Fragaria vesca*	R	C6	322
Dactylonectria alcacerensis, Wollenweber	①	(xviii)	20	*Dysosma versipellis*	M	C1	572
Dactylonectria aff. macrodidyma, (Halleen, Schroers & P.W. Crous)	①	(xviii)	20	*Microthlaspi* sp.	R	C6	387
Daedaleopsis sp. P. Hennings	②	(i)	48	*Theobroma gileri*	S	C4	101
Daldinia childiae, J.D. Rogers & Y.M. Ju	①	(xviii)	47	*Panax ginseng*	L	C1	74, 136
Daldinia concentrica, V. Cesati; G. De Notaris	①	(xviii)	47	*Olea europaea*	C	C6	6

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Daldinia eschscholzii, H. Rehm	①	(xviii)	47	*Euterpe olerace*, *Taxus globosa*	L	C3, C4	74
Daldinia fissa, C.G. Lloyd	①	(xviii)	47	*Abies pindrow*	T	C1	50
Daldinia loculata, P.A. Saccardo	①	(xviii)	47	*Silybum marianum*,	L,	C1, C3	115
Daldinia sp., V. Cesati; G. De Notaris	①	(xviii)	47	*Dendrobium*, *Salix fragilis*, *Shorea obtusa*	R	C1, C6	56, 74, 122, 165
Davidiella macrospora, U. Braun; P.W. Crous	①	(v)	8	*Arabidopsis thaliana*	L, S, L	C6	146
Davidiella sp.	①	(v)	8	*Spiranthes spiralis*	R	C6	88, 122
Davidiella tassiana, U. Braun; P.W. Crous	①	(v)	8	*Phragmites australis*, *Pinus halepensis*,	L	C6	83, 146
Debaryomyces, Lodder & Kreger-van Rij ex Kreger-van Rij	①	(xxvii)	37	*Malus domestica*	L	C6	423
Debaryomyces hansenii, Lodder & Kreger-van Rij	①	(xxvii)	37	*Adenocystis utricularis*, *Actinidia deliciosa*	G	C5	309, 542
Debaryomyces vanrijiae, Abadie, Pignal & J.L. Jacob	①	(xxvii)	37	*Rosa canina*, *Prunus domestica*	F	C6	429
Deightoniella torulosa, M.B. Ellis	①	(v)	8	*Musa acuminata*	S	C1	17, 30
Delitschia chaetomioides, P.A. Karsten	①	(v)	34	*Vanilla planifolia*	F, L	C6	473
Dendrodochium sp.	①	(xviii)	20	*Euterpe olerace*, *Quercus cerris*	L, T	C4, C6	37

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Dendrothyrium variisporum, G.J.M. Verkley, Göker & Stielow	①	(v)	34	*Prunus avium*	T, L	C1	492
Dendryphiella arenaria, J. Nicot	①	(v)	34	*Fucus* sp.	A	C6	422
Dendryphiella salina, Pugh, G.J.F.; J. Nicot	①	(v)	34	*Ascophyllum nodosum*	A	C6	49
Dendryphion comosum, C.F.W. Wallroth	①	(v)	34	*Eichhornia crassipes*	L, L	C1	382
Dendryphion nanum, S.J. Hughes	①	(v)	34	*Eichhornia crassipes*	L, L	C1	382
Diaporthe acaciarum, P.W. Crous & M.J. Wingfield	①	(xviii)	14	*Vellozia gigantea*	R, L	C6	478
Diaporthe ampelina, R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*Commiphora wightii*	R	C1	363
Diaporthe anacardii, R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*Alpinia malaccensis, Hornstedtia conica*	O	C1	420
Diaporthe arengae, R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*T. arjuna*	T	C1	561
Diaporthe biconispora, F. Huang, K.D. Hyde & H.Y. Li	①	(xviii)	14	*Citrus grandis*	C	C1	560
Diaporthe biguttulata, F. Huang, K.D. Hyde & H.Y. Li	①	(xviii)	14	*Citrus grandis*	C	C2	560
Diaporthe carpini, L.L. Fuckel	①	(xviii)	14	*Carpinus betulus*	C	C6	418

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Diaporthe caulivola, Athow & Caldwell	①	(xviii)	14	*C. arabica and C. robusta*	O	C4	412
Diaporthe ceratozamiae, P.W. Crous & R.G. Shivas	①	(xviii)	14	*A. brachyloba*	S	C1	484
Diaporthe cf. nobilis, P.A. Saccardo	①	(xviii)	14	*Pinus koraiensis*	N	C1	350
Diaporthe citri, F.A. Wolf	①	(xviii)	14	*Carapa guianensis*	L	C4	408
Diaporthe conorum, Niessl, G. von.	①	(xviii)	14	*N. nimmoniana*	B	C1	95
Diaporthe cotoneastri, Udayanga, PW Crous and KD Hyde	①	(xviii)	14	*Diaporthe cotoneastri*	S, L, R, H,	C3	115
Diaporthe discoidispora, F. Huang, K.D. Hyde & H.Y. Li	①	(xviii)	14	*Citrus unshiu*	T	C1	560
Diaporthe eres, T. Nitschke	①	(xviii)	14	*Acer macrophyllum, Abies alba, Fagus sylvatica, Diaporthe eres*	L, T	C6, C4, C6, C6,	201, 589
Diaporthe eucalyptorum, P.W. Crous & R.G. Shivas	①	(xviii)	14	*Citrus limon*	L	C6	343
Diaporthe fraxini, L.L. Fuckel	①	(xviii)	14	*Persea americana*	C	C3	367
Diaporthe gardenia, (Buddin & Wakef.) R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*Alpinia malaccensis, Hornstedtia conica*	O	C1	420
Diaporthe helianthi, Muntañola-Cvetkovic, Mihaljcevic & M. Petrov	①	(xviii)	14	*Luehea divaricate, Glycine max, Rauwolfia serpentina, Theobroma cacao*	C, L, T	C4, C1	33, 50, 95, 103, 129, 157

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Diaporthe heveae, T. Petch	①	(xviii)	14	*Glycine max*	L	C4	129
Diaporthe hongkongensis, R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*Phoenix dactylifera*	R	C6	446
Diaporthe hordei, R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*A. lavandulifolia*	S	C1	484
Diaporthe liquidambari, C.Q. Chang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*Coffea arabica*	L	C1	132
Diaporthe longicolla, J.M. Santos, Vrandecic & A.J.L. Phillips	①	(xviii)	14	*Cananga odorata*	F, Z, S, B, R, R, B	C2	479
Diaporthe masirevicii, R.G. Shivas, L. Morin, S.M. Thompson & Y.P. Tan	①	(xviii)	14	*Vellozia gigantea*	R, L	C4	477
Diaporthe melonis, Beraha & M.J. O'Brien	①	(xviii)	14	*Holcus lanatus*	G	C6	315
Diaporthe miriciae, R.G. Shivas, L. Morin, S.M. Thompson & Y.P. Tan	①	(xviii)	14	*Vellozia gigantea*	R, L	C4	478
Diaporthe multigutullata, F. Huang, K.D. Hyde & H.Y. Li	①	(xviii)	14	*Citrus grandis*	C	C1	560
Diaporthe nomurai, Hara	①	(xviii)	14	*Betula platyphylla*, *Quercus liaotungensis*, *Ulmus macrocarpa*	L, C	C1	1
Diaporthe novem, J.M. Santos, Vrandecic & A.J.L. Phillips	①	(xviii)	14	*Artemisia thuscula*	S	C6	569

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Diaporthe oncostoma,	①	(xviii)	14				
Diaporthe ovalispora, F. Huang, K.D. Hyde & H.Y. Li	①	(xviii)	14	*Citrus limon*	T	C1	560
Diaporthe pandanicola, S. Tibpromma, K.D. Hyde; D.J. Bhat, P.E. Mortimer, J.C. Xu, I. Promputtha, M. Doilom, J.B. Yang, A.M.C. Tang, S.C. Karunarathna	①	(xviii)	14	*Pandanus*	L	C1	559
Diaporthe pascoei, R.G. Shivas, J. Edwards & Y.P. Tan	①	(xviii)	14	*R. stylosa and R. mucronate*	R, S	C1	509
Diaporthe perjuncta, G. von. Niessl	①	(xviii)	14	*Dysosma versipellis*	M	C1	572
Diaporthe perseae, R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*R. stylosa and R. mucronate.*	R, L	C1	509
Diaporthe phaseolorum, P.A. Saccardo	①	(xviii)	14	*Glycine max, Picrorhiza kurroa, Theobroma cacao*	C, L	C4, C1	1, 6, 33, 50, 76, 78, 86, 95, 129
Diaporthe pseudomangiferae, R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*Millingtoniahortensis, Tabebuia* sp.	L	C1	124
Diaporthe siamensis, Udayanga, X.Z. Liu & K.D. Hyde	①	(xviii)	14	*Pandanus*	L	C1	559
Diaporthe sp.	①	(xviii)	14	*Abies, Forsterconia conia, Camptotheca acuminate, Gossypium*	L	C3	29, 56, 60, 69, 94, 115,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				hirsutum, Pandanus maryllifolius			150, 208
Diaporthe subclavata, F. Huang, K.D. Hyde & H.Y. Li	①	(xviii)	14	*Citrus unshiu*	L	C1	560
Diaporthe terebinthifolii, R.R. Gomes, C. Glienke & P.W. Crous	①	(xviii)	14	*Paullinia cupana*	R, H	C4	552
Diaporthe vaccinii, Shear	①	(xviii)	14	Blueberry and cranberry	F, S	C6	95
Diaporthe unshiuensis, F. Huang, Hyde K. D. & H.Y. Li	①	(xviii)	14	*F. margarita*.	B, T	C1	560
Diaporthe viticola, T. Nitschke	①	(xviii)	14	*Holcus lanatus, Diaporthe viticola*	G	C4	87, 589
Diatrype sp.	①	(xviii)	47	*Gossypium hirsutum*	L, F	C3	47
Diatrypella favacea, V. Cesati; De Notaris, G. 1863	①	(xviii)	47	*Betula platyphylla, Quercus liaotungensis, Ulmus macrocarpa*	L, C	C1	1
Diatrypella frostii, C. H. Peck,	①	(xviii)	47	*Solanum cernuum*	O	C4	192
Dicarpella dryina, A. Belisario	①	(xviii)	14	*Fagus sylvatica, Quercus alba, Quercus cerris, Quercus robur*	L, T	C6, C3, C6, C6	1
Dicarpella subglobosa	①	(xviii)	14	*Quercus alba*	L	C3	201
Dichomera corticola	①	(v)	6	*Quercus ilex*	L, L, T	C4	89
Dichomera cupressi	①	(v)	6	*Cupressus sempervirens*	L, L, T	C4	89
Dichomera eucalypti, B.C. Sutton	①	(v)	6	*Eucalyptus*	L, L, T	C4	89

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Dichomera versiformis, Z.Q. Yuan, T. Wardlaw, C.L. Mohammed	①	(v)	6	*Eucalyptus pauciflora, Eucalyptus camaldulensis*	L, L, T	C4	89
Dichotomomyces cejpii, D.B. Scott	①	(vi)	17	*Triticum aestivum*	O	C6	311
Dictyoarthrinium rabaulense, T. Matsushima	①	(vii)	21	*Dendrocalamus strictus*	O	C1	325
Dictyochaeta simplex, V. Holubová-Jechová	①	(xviii)	9	*Aralia elata*	R	C1	34
Dictyochaeta sp.	①	(xviii)	9	*P. ginseng*	L	C1	262
Dictyochaeta triseptata, R.F. Castañeda	①	(xviii)	9	Trees	L	C2	20
Dictyopolyschema cf. pirozynskii, M.B. Ellis	①	(vii)	21	*Eucalyptus nitens*	O	C7	436
Dictyosporium digitatum, J.L. Chen, C.H. Hwang, S.S. Tzean	①	(v)	34	*Panax notoginseng*	R	C1	500
Dictyosporium elegans, A.C.J. Corda	①	(v)	34	*Elaeis guineensis*	N.S.	C1	325
Dictyosporium heptasporum, S.C. Damon	①	(v)	34	*Dracaena cochinchinensis*	R	C1	150
Dicyma sp	①	(xviii)	47	*Rhizophora mucronata*	R	C1	395
Didymella abieticola, E.A. Vainio	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C1	334
Didymella bryoniae, P.A. Saccardo	①	(v)	34	*Holcus lanatus*	G	C6	315

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Didymella exitialis, H. Rehm	①	(v)	34	*Triticum aestivum*	O	C6	311
Didymella fabae, Jellis, G.J.; Punithalingam, E.	①	(v)	34	*Betula ermanii*	L	C1	78
Didymella rabiei, J.A. von.	①	(v)	34	*Betula platyphylla*, *Quercus liaotungensis*, *Ulmus macrocarpa*	V, W	C1	1
Didymella sp.	①	(v)	34	*Quercus liaotungensis*	L, T	C1	12, 122
Didymella vitalbina, F. Petrak	①	(v)	34	*Fragaria vesca*	R	C6	467
Didymocrea sadasivanii, Kowalski, D.T.	①	(v)	21	*C. luteoculcitella and Holoxea sp*	J	C1	511
Didymosphaeria futilis, (Berkeley & Broome) Rehm	①	(v)	34	*Taxus globosa*	O	C3	74
Didymosphaeria igniaria, C. Booth	①	(v)	34	*Avicennia schaueriana*	L	C4	154
Didymosphaeria sp.	①	(v)	34	*Phoradendron perrottettii*, *Tapirira guianensis*	L, S	C1	334
Didymostilbe echinofibrosa, Rossman	①	(xviii)	20	*Cephalotaxus hainanensis*	W	C1	489
Didymostilbe sp.	①	(xviii)	20	*T. chinensis* var. *mairei*	B	C1	235
Dinemasporium strigosum, P.A. Saccardo	①	(xviii)	9	*Calystegia sepium*	R	C6, C1	276
Dioszegia hungarica, J. Zsolt	②	(xix)	49	*Holcus lanatus*	G	C6	315
Dioszegia sp.	②	(xix)	49	*Bletilla ochracea*	L	C1	540

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Dioszegia zsoltii, F.Y. Bai, M. Takashima & Nakase	②	(xix)	49	*Brassica napus*	S	C1	178
Diplococcium spicatum, W.B. Grove	①	(xviii)	44	*Bauhinia forficata*	L	C6	316
Diplodia, J.P.F.C. Montagne	①	(v)	6	*Acacia karroo*	C	C3	202, 204
Diplodia allocellula, Jami, Gryzenhout, Slippers & M.J. Wingfield	①	(v)	6	*Avicennia marina, R. mucronata*	C	C2	460
Diplodia estuarina, J.A Osorio, Jol. Roux & Z.W. de Beer	①	(v)	6	*Quercus cerris*	T	C2	409
Diplodia mutila, J.P.F.C. Montagne	①	(v)	6	*Pinus halepensis*	T, N	C6	90
Diplodia pinea, J. Kickx	①	(v)	6	*Eucalyptus, Pinus halepensis,*	L, L, T	C6	83, 89
Diplodia porosum, Van Niekerk & P.W. Crous	①	(v)	6	*Eucalyptus*	L, L, T	C4	89
Diplodia pseudoseriata, C.A. Pérez, Blanchette, Slippers & M.J. Wingfield	①	(v)	6	*Eucalyptus*	L, L, T	C4	89
Diplodia rosulata, Gure, A.; Slippers, B.; Stenlid, J.	①	(v)	6	*Pinus radiata*	U	C4	89
Diplodia scrobiculata, J. de Wet, Slippers & M.J. Wingfield	①	(v)	6	*Eleusine coracana*	H, R	C3	89
Diplodia seriata, G. De Notaris	①	(v)	6	*Chamaecyparis thyoides*	L	C3	89, 90
Diplodina acerina, B.C. Sutton	①	(xviii)	14	*A. thaliana*	L	C6	161

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Diplodina microsperma, B.C. Sutton	①	(xviii)	14	*Calotropis procera*	L	C4	117
Diplodina sp.	①	(xviii)	14	*Rhododendron*	L	C6	37
Dipodascus sp.	①	(xxvii)	37	*Paris polyphylla*	M	C1	278
Discosporium sp.	①	(xviii)	14	Mangrove	L	C1	77
Discostroma sp.	①	(xviii)	66	*Citrus medica, Holcus lanatus*	G	C6	60
Discula campestris, J.A. von Arx.	①	(xviii)	14	*Acer saccharum*	L, L	C3	341
Discula quercina, P.A. Saccardo	①	(xviii)	14	*Quercus garryana, Fraxinus ornus*	L	C3	87, 190, 589
Discula sp.	①	(xviii)	14	*Betula, Quercus*	L	C1	29, 76
Discula umbrinella, M. Morelet	①	(xviii)	14	*Fagus sylvatica, Q. alba and Q. rubra*	L	C3	164
Disculina vulgaris, B.C. Sutton	①	(v)	21	*Betula platyphylla*	L, T	C1	1
Dissoconium sp.	①	(v)	8	*Phragmites australis*	L	C6	146
Domingella asterinarum	⑥	(vii)	21	*Altheae rosea*	L	C2	271
Doratomyces microsporus, Morton, F.J.; G. Smith	①	(xviii)	24	*Triticum aestivum*	O	C6	311
Doratomyces sp.	①	(xviii)	24	*Paris polyphylla*	M	C1	278
Dothichiza pithyophila, F. Petrak	①	(v)	15	*Pinus ponderosa*	N	C3	315
Dothidea sp., E.M. Fries	①	(v)	15	*Brassica napus*	S, R, L	C1	178
Dothiora europaea, Froidevaux, L.	①	(v)	15	*Laguncularia racemosa*	L	C4	154

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Dothiorella brevicollis, F. Jami, B. Slippers, M.J. Wingfield; M. Gryzenhout	①	(v)	6	*Acacia karroo*	T	C2	410
Dothiorella gregaria, P.A. Saccardo	①	(v)	6	*Brassica napus*	S,	C1	76
Dothiorella iberica, A. Phillips, A. Alves, A. Correia, J. Luque	①	(v)	6	*Eucalyptus globulus*	V	C6	479
Dothiorella pretoriensis, (Jami, Gryzenh., Slippers & M.J. Wingf.) Abdollahz. & A.J.L. Phillips	①	(v)	6	*Acacia karroo*	C	C2	460
Dothiorella sarmentorum, A. Phillips, A. Alves, A. Correia, J. Luque	①	(v)	6	*Eucalyptus globulus*	V	C6	479
Dothiorella sp.	①	(v)	6	*Aegiceras corniculatum*	W	C4	201, 479
Dothiorella uruguayensis, Abdollahzadeh & A.J.L. Phillips	①	(v)	6	*Hexachlamis edulis*	T	C4	406
Dothistroma septospora, M. Morelet	①	(v)	8	*Pinus nigra*	N	C6	456
Drechmeria sp., W. Gams & H.-B. Jansson	①	(xviii)	20	*Panax notoginseng*	R	C1	499
Drechslera andersenii, W. Gams; Jansson, H.B.	①	(v)	34	*Dactylis glomerata*	G	C6	95
Drechslera australiensis, G. Scharif	①	(v)	34	*Boswellia sacra*	S, L	C1	91
Drechslera biseptata, M.J. Richardson & E.M. Fraser	①	(v)	34	*Coffea arabica, Acer truncatum*	L	C6	76, 132

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Drechslera dactylidis, R.A. Shoemaker	①	(v)	34	*Dactylis glomerata*	G	C6	315
Drechslera dematioidea, G. Scharif	①	(v)	34	*Liagora viscida*	A	N.S.	150
Drechslera ellisii, O.A. Danquah	①	(v)	34	*A. marmelos, Nyctanthes arbor-tristis*	S,	C1	156
Drechslera erythrospila, R.A. Shoemaker	①	(v)	34	*Holcus lanatus*	G	C6	315
Drechslera graminea, S. Ito	①	(v)	34	*T. cordifolia*	O	C1	415
Drechslera halodes, C.V. Subramanian; B.L. Jain	①	(v)	34	*Lumnitzera racemosa, Altheae rosea*	L	C1, C2	18
Drechslera hawaiiensis, M.B. Ellis	①	(v)	34	*Boswellia sacra*	S, L	C1	55, 62
Drechslera indica, J. Mouchacca	①	(v)	34	*Avicennia officinalis*	L	C1	361
Drechslera papendorfii, M.B. Ellis	①	(v)	34	*Turbinaria* sp.	A	C1	330
Drechslera poae, R.A. Shoemaker	①	(v)	34	*Triticum aestivum*	O	C6	311
Drechslera rostrata, M.J. Richardson, E.M. Fraser	①	(v)	34	*A. indica. E. citriodora*	L	C1	415
Drechslera sp.	①	(v)	34	*E. grandis, Azadirachta indica, Lumnitzera racemosa, Rhizophora apiculata, Avicennia marina*	S, L	C1, C2	17, 18, 22, 32, 57, 58, 67, 77, 84, 87, 204
Drechslera spicifera, J.A. von Arx.	①	(v)	34	*Boswellia sacra*	S, L	C1	299

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Drechslerella dactyloides, M. Scholler, G. Hagedorn, A. Rubner	①	(xiv)	29	*Gossypium hirsutum*	L	C3	47
Durandiella gallica, M. Morelet	①	(xviii)	18	Forest tree	C	C6	418
Earliella scabrosa, Gilbertson, R.L.; L. Ryvarden	②	(i)	48	*Zingiber officinale*	M	C1	345
Echinosphaeria pteridis, Dhargalkar, S.; D.J. Bhat	①	(xviii)	44	*Pteris vittata*	N	C1	166, 177,
Ectostroma sp.	①	(vii)	21	*T. chinensis* var. *mairei*	B	C1	177
Edenia gomezpompae, M.C. González, Anaya, Glenn, Saucedo & Hanlin	①	(v)	34	*Callicarpa accuminata, Erythrina smithiana, Panax ginseng*	S, L	C4, C1	79, 136, 200
Edenia sp., M.C. González, Anaya, Glenn, Saucedo & Hanlin	①	(v)	34	*Petrea volubilis*	L	C3	527
Eladia saccula, G. Smith	①	(vi)	17	Grass	U	C3	78
Eleutheromyces subulatus, L.L. Fuckel	①	(x)	18	*Cassiope tetragona, Saxifraga, Silene*	R	C5	121
Ellisembia sp.	①	(xviii)	21	*Caesalpinia sappan, Alternanthera sessil, Sapindus laurifolius, Basala alba* and *Acalypha indica*	R	C1	99
Ellisiopsis sp.	①	(xviii)	47	*Carapa guianensis, Goupia glabra*	L	C4	20
Elsinoë sp.	①	(v)	27	*Pinus tabulaeformis*	W	C1	581
Embellisia sp.	①	(v)	34	*Sideritis chamaedryfolia*	R	C3	326

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Embellisia allii, E.G. Simmons	①	(v)	34	*Pinus elliottii*	N	C1	558
Embellisia chlamydospora, E.G. Simmons	①	(v)	34	*Arabidopsis thaliana*	L, S, L	C6	300
Embellisia eureka, E.G. Simmons	①	(v)	34	*Gossypium hirsutum*	L, F	C6	58
Embellisia indefessa, E.G. Simmons	①	(v)	34	*Arabidopsis thaliana*	L, S, L	C3	47
Embellisia lolii, E.G. Simmons	①	(v)	34	*Salicornia europaea*	S	C6	58
Embellisia phragmospora, E.G. Simmons	①	(v)	34	*Mentzelia perennis*	L, R	C1	434
Emericella fruticulosa, D. Malloch; R.F. Cain	①	(vi)	17	*Juniperus procera*	T	C1	426
Emericella nidulans, P. Vuillemin	①	(vi)	17	Mediterranean green alga, *Altheae rosea*	L	C2	145, 148
Emericella nivea, B.J. Wiley, E.G. Simmons	①	(vi)	17	*Holarrhena antidysentrica*, *Jatropha curcas*, *Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Emericella qaudrilineata, C.R. Benjamin	①	(vi)	17	*Pteris pellucida*	L, S	C1	528
Emericella rugulosa, Benjamin, C.R.	①	(vi)	17	*Pinus ponderosa*	L	C3	413
Emericella sp., M.J. Berkeley	①	(vi)	17	*Pinus ponderosa*	L	C3	529
Emericellopsis donezkii, Beljakova, L.A.	①	(xviii)	20	*Eugenia aff. bimarginata*, *Myrciaria floribunda*, *and Alchornea castaneifolia*	L	C3	443

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Emericellopsis minima, A.C. Stolk	①	(xviii)	20	*Myriophyllum spicatum*	S	C3	530
Emericellopsis sp.	①	(xviii)	20	*Ammophila arenaria, Elymus farctus*	G	C6	315
Emericellopsis terricola, Beyma, F.H. van.	①	(xviii)	20	Grass	U	C3	78
Endogone lactiflua, M.J. Berkeley; C.E. Broome	⑦	(vii)	63	Submerged aquatic plant	R	C6	285
Endomelaconium sp.	①	(v)	6	*E. nitens*	X	C2	188
Endomelanconiopsis endophytica, E.I. Rojas & Samuels	①	(v)	6	*Hevea brasiliensis*	R	C1	167
Endomelanconiopsis freycinetiae, Tibpromma & K.D. Hyde	①	(v)	6	*Freycinetia*	L	C1	559
Endomelanconiopsis microspora, E.I. Rojas & Samuels	①	(v)	6	*Hevea brasiliensis*	L, S	C3	167
Endopandanicola thailandica, S. Tibpromma & K.D. Hyde	②	(i)	48	*Pandanus*	L	C1	559
Endophragmia pinicola, M.B. Ellis	①	(vii)	21	Milfoil	S, L	C3	385
Endothia gyrosa E.M. Fries	①	(xviii)	14	*Vatica mangachapo*	L	C1	6
Engyodontium album, G.S. de Hoog.	①	(xviii)	20	*Panax ginseng, Boswellia sacra*	G	C1	143
Entonaema, A. Möller	①	(xviii)	20	*Hevea brasiliensis*	L	C1	122
Entonaema palladia, G.W. Martin	①	(xviii)	20	*Pholidota pallida*	R, L	C4	167

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Entrophospora, Ames, R.N.; Schneider, R.W.	⑦	(vii)	62	*Nothapodytes foetida*, *Nothapodytes nimmoniana*	B	C5	306
Entrophospora infrequens, R.N. Ames, R.W. Schneider	⑦	(vii)	62	*Deschampsia Antarctica*, *Nothapodytes foetida*	G	C1, C5	125, 166, 180, 228
Eocronartium sp., G.F. Atkinson	②	(xvi)	33	*Chorisodontium aciphyllum*	W	C5	308
Epichole amarillans, J.F. Jr White.	①	(xviii)	20	Wildrye	G	C3	6, 153, 171
Epichole baconii, J.F. Jr White.	①	(xviii)	20	*Agrostis tenuis*	G	C6	171
Epichole brachyelytri, C.L. Schardl, A. Leuchtmann	①	(xviii)	20		G	C3	171
Epichole bromicola, C.L. Schardl, A. Leuchtmann	①	(xviii)	20	*Bromus erectus*	G	C6	171
Epichole clarkii, J.F. Jr White.	①	(xviii)	20	*Holcus lanatus*	G	C6	87, 171,
Epichole coenophiala, C.W. Bacon & Schardl	①	(xviii)	20	Tall fescue	G	C3	120
Epichole elymi, Schardl, C.L.; Leuchtmann, A.	①	(xviii)	20	Wildrye	G	C3	171
Epichole festucae, Leuchtmann, Schardl & M.R. Siegel	①	(xviii)	20	*Festuca gigantea*, *Festuca longifolia*, *Festuca rubra*	G	C3	120, 153, 171, 187
Epichole glyceriae, C.L. Schardl, A. Leuchtmann	①	(xviii)	20	*Glyceriastriata*	G	C3	171

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Epichole sp.	①	(xviii)	20	Wildrye	G	C3	25, 105, 114, 120
Epichole sylvatica, Leuchtmann, A.; Schardl, C.L.	①	(xviii)	20	*Brachypodium sylvaticum*	G	C3	171
Epichole typhina, L.R. Tulasne; C. Tulasne	①	(xviii)	20	*Dactylis glomerata, Holcus lanatus, Phleum pratense, Poa nemoralis, Poa trivialis*	G	C6, C6	114, 171, 187, 203
Epichole uncinata, Leuchtmann & Schardl	①	(xviii)	20	*Festulolium* grasses	G	C3	102
Epichole yangzii, W. Li & Z. Wang	①	(xviii)	20	Wildrye	G	C3	171
Epicoccum nigrum, H.F. Link	①	(v)	34	*Brassica napus, Chamaecyparis thyoides, Gossypium hirsutum, Pinus halepensis, E. nitens, E. grandis, Musa accuminata* ssp., *Vitis vinifera*	S, L, X	C7, C4, C1, C6, C1, C3, C3, C2	9, 12, 13, 37, 47, 66, 76, 80, 83, 150, 158, 159, 164, 282
Epicoccum purpurascens, Ehrenberg, C.G.	①	(v)	34	*Banksia integrifolia, Silene dioica, Teucrium scorodonia*	L	C7, C6	7, 10
Epicoccum sorghinum, Aveskamp, J. de Gruyter & G.J.M. Verkley	①	(v)	34	*Dendrobium officinale*	R, S	C1	321
Epicoccum sp.	①	(v)	34	*Buddleja asiatica, Gossypium hirsutum, Opuntia*	L	C3	29, 53, 57, 77, 80, 87, 88, 90, 103,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
							161, 164
Epulorhiza anaticula, R.S. Currah	②	(i)	7	*Calypso bulbosa*	R	C3	101
Epulorhiza repens, R.T. Moore	②	(i)	7	*Platanthera obtusata*	H	C3	101
Epulorhiza sp.	②	(i)	7	*Bletilla ochracea*	L	C1	98
Eremascus albus, E. Eidam	①	(vi)	21	*Tinospora cordifolia*	L	C1	416
Eremothecium coryli, Kurtzman	①	(xxvii)	37	*Centaurea stoebe*	W	C6	103
Eremothecium cymbalariae, A. Borzí	①	(xxvii)	37	*Centaurea stoebe*	W	C6	103
Eucasphaeria capensis, P.W. Crous	①	(xxvii)	20	*Espeletia*	L	C1	355
Eupencillium brefeldianum, A.C. Stolk; D.B. Scott	①	(vi)	17	*Pinus thunbergii*	R	C1	86
Eupenicillium javanicum, A.C. Stolk; D.B. Scott	①	(vi)	17	*Pinus thunbergii*	R	C1	297
Eupenicillium pinetorum, A.C. Stolk	①	(vi)	17	*Pinus thunbergii*	R	C1	297
Eupenicillium reticulisporum, S. Udagawa	①	(vi)	17	*C. amoena*	R	C1	411
Eupenicillium rubidurum, S.I. Udagawa, Y. Horie	①	(vi)	17	*Cannabis sativa*, *Juniperus procera*	T	C1	64
Eupenicillium sp.	①	(vi)	17	*Glochidion ferdinandi*	L	C7	183
Eurotium amstelodami, L. Mangin	①	(vi)	17	*Dactylis glomerata*	G	C6	315

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Eurotium cristatum, D. Malloch; R.F. Cain	①	(vi)	17	*Sargassum thunbergii*	A	C3	88
Eurotium herbariorum, H.F. Link	①	(xviii)	17	*Epiactis prolifera*	A	C6	264
Eurotium repens, de Bary	①	(vi)	17	*Altheae rosea*	L	C2	271
Eurotium rubrum, J. König et al.	①	(vi)	17	*Hibiscus tiliaceus*	S	C2	1, 6, 91
Eurotium sp.	①	(vi)	17	*Curcuma longa*, *Achyranthes aspera*	M, S	C1	49
Eutypa maura, P.A. Saccardo	①	(vi)	47	*Triticum aestivum*	O	C6	311
Eutypa scoparia, L.H. Tiffany, J.C. Gilman	①	(vi)	47	*Garcinia* sp.	L	C1	78
Eutypella cerviculata, P.A. Saccardo	①	(vi)	47	*Holcus lanatus*	G	C6	315
Eutypella scoparia, J.B. Ellis; B.M. Everhart	①	(vi)	47	Soybean	L	C4	322
Eutypella sp.	①	(vi)	47	*Etlingera littoralis*, *Quercus robur*,	T	C6	37, 60, 78
Exidia sp.	②	(i)	4	*Habenaria radiata*	R	C1	122
Exophiala pisciphila, M.R. McGinnis, M.R.; L. Ajello	①	(xxii)	10	Milfoil	L, S	C3,	385
Exophiala sp.	①	(xxii)	10	*Chamaecyparis thyoides*, *Epiplema grandiflorum*	L, R	C3,	9, 98
Exophiala lecanii-corni, G. Haase, G.S. Sonntag, de Hoog	①	(xxii)	10	*Alpinia malaccensis*, *Hornstedtia conica*	O	C1	420

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Exophialia oligosperma, Calendron ex De Hoog & Tintelnot	①	(xxii)	10	*Laurencia similis*	A	C1	531
Exserohilum sp.	①	(v)	34	*Alpinia officinarum*	M	C3	126
Exserohilum rostratum, K.J. Leonard & Suggs	①	(v)	34	*Gossypium hirsutum*	L	C1	78, 145
Fennellia nivea, (B.J. Wiley & E.G. Simmons) Samson	①	(vi)	17	*Typhonium divaricatum*	O	C1	249
Filobasidium floriforme, L.S. Olive	②	(xix)	79	*Castilleja affini*	Z		542
Filobasidium sp.	②	(xix)	79	*Eugenia aff. bimarginata*	L	C4	443
Fimetariella rabenhorstii, (Niessl) N. Lundq.	①	(xviii)	39	*Aquilaria sinensis*, *Hevea brasiliensis*	G	C1	167
Fimetariella sp.	①	(xviii)	39	*Pinus wallichiana*	S, N	C1	323
Flagellospora fusarioide, C.T. Ingold	①	(xviii)	20	*Elatostemma* sp.	R	C1	459
Flagellospora penicilloides, C.T. Ingold	①	(xviii)	20	*Polystichum munitum*	O	C3	458
Flagellospora sp.	①	(xviii)	20	*Elatostemma* sp.	R	C1	99
Fomes fomentarius, E.M. Fries	②	(i)	48	Birch, beech, *Theobroma gileri*	X, S	C4	102
Fomitiporia sp.	②	(i)	19	*Pinus taeda*	N	C3	101
Fomitopsis meliae, R.L. Gilbertson	②	(i)	48	*Paullinia cupana*	R, H	C4	552
Fomitopsis pinicola, (Swartz) P. Karsten	②	(i)	48	*Theobroma gilero*	S	C4	102

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Fomitopsis sp.	②	(i)	48	*M. dentata*	F	C1	245
Funalia trogii, Bondartsev & Singer	②	(i)	48	*Triticum aestivum*	O	C6	311
Fusariella obstipa, S. Hughes	①	(vii)	21	*Rhizophora mucronata*	R	C1	395
Fusarium acuminatum, J.B. Ellis ; B.M. Everhart	①	(xviii)	20	*Panax ginseng*	R	C1	12, 78, 162
Fusarium andiyazi, W.F.O. Marasas, J.P. Rheeder, S.C. Lamprecht, K.A. Zeller, .F. Leslie	①	(xviii)	20	*Zea mays*	S	C1	357
Fusarium annulatum, F. Bugnicourt, F.	①	(xviii)	20	Tallgrass	R	C3	417
Fusarium anthophilum, H.W. Wollenweber	①	(xviii)	20	*Altheae rosea*	L	C2	271
Fusarium aquaeductuum, Lagerheim & Rabenhorst	①	(xviii)	20	*Licuala ramsayi*	L	C3	304
Fusarium arthrosporioides, H.F. Link	①	(xviii)	20	*Phleum pratense*	L	C6	166
Fusarium avenaceum, P.A. Saccardo	①	(xviii)	20	*Phleum pratense, Triticum aestivum*	L	C6, C2,	12, 47, 164
Fusarium brachygibbosum, G.W. Padwick	①	(xviii)	20	Medicinal plant	S, L	C1	483
Fusarium camptoceras, H.W. Wollenweber, A.O. Reinking	①	(xviii)	20	*Hyoscyamus muticus*	S	C1	399

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Fusarium cerealis, J. de Gruyter & J.H.M. Schneider	①	(xviii)	20	*Salicornia europaea*	S	C1	434
Fusarium chlamydosporum, H.W. Wollenweber, A.O. Reinking	①	(xviii)	20	*Brassica napus, Gossypium hirsutum, Theobroma cacao*	C, S, R, L	C4, C1, C3	33, 107
Fusarium ciliatum, C.D.G. Nees von Esenbeck	①	(xviii)	20	*Rhizophora apiculata, Rhizophora mucornata* and *Bruguiera gymnorrhiza*	R	C1	303
Fusarium circinatum, Nirenberg, H.I.; O'Donnell, K.	①	(xviii)	20	*Cupressus torulosa*	L	C1	465
Fusarium concentricum, H.I. Nirenberg, K. O'Donnell	①	(xviii)	20	*Zea mays*	S	C1	320
Fusarium culmorum, P.A. Saccardo	①	(xviii)	20	*Tinospora cordifolia, Broussonetia papyrifera, Celtis occidentalis* and *Ligustrum lucidum*	L, Ls	C4	12, 87, 90
Fusarium decemcellulare, Brick	①	(xviii)	20	*Cecropia sciadophylla*	S, L, B	C4	20
Fusarium denticulatum, H.I. Nirenberg, K. O'Donnell	①	(xviii)	20	*Zea mays*	R	C1	357
Fusarium dimerum, O. Penzig	①	(xviii)	20	*Altheae rosea, Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C2, C1	271
Fusarium equiseti, P.A. Saccardo	①	(xviii)	20	*Withania somnifera*	S	C1	2, 12, 50, 87, 103, 145,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
							146, 150, 160, 164
Fusarium falciforme, R.C. Summerbell,.H. Schroers	①	(xviii)	20	Soyabean	R	C1	514
Fusarium flocciferum, A.C.J. Corda	①	(xviii)	20	*Artemisia annua*	T	C1	50
Fusarium fujikuroi, H. Nirenberg	①	(xviii)	20	*Silybum marianum*	L	C3	115
Fusarium graminearum, S.H. Schwabe	①	(xviii)	20	*Glycine max, Zea mays*	L, S, R	C4	141
Fusarium heterosporum, C.D.G. Nees von Esenbeck; T.F.L. Nees von Esenbeck	①	(xviii)	20	*Acalypha indica*	L, S, R, L	C1	135
Fusarium hostae, Geiser & Juba	①	(xviii)	20	*Arthrocnemum macrostachyum, Limonium cossonianum, Lygeum spartum,Ononis natrix, Sporobolus pungens* and *Teucrium dunense*	R	C6	300
Fusarium incarnatum, P.A. Saccardo	①	(xviii)	20	*Aegiceras corniculatum*	S	C1	146
Fusarium larvarum, L.L. Fuckel	①	(xviii)	20	*Pinus halepensis*	T, N	C6	83
Fusarium lateritium, C.D.G. Nees von Esenbeck	①	(xviii)	20	*Musa accuminata* ssp.	S, X	C7, C6, C1	13, 37, 73, 90, 154, 166, 175

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Fusarium lichenicola, C. Massalongo	①	(xviii)	20	*Theobroma gileri*	S	C4	102
Fusarium mairei	①	(xviii)	20	*Taxus chinensis* var. *maire*	B	C1	125, 166
Fusarium moniliforme, Wollenweber, H.W.	①	(xviii)	20	*Viscum album, Altheae rosea*	L	C2	73, 78, 91, 148, 204
Fusarium negundis, Sherbakoff	①	(xviii)	20	*Arthrocnemum macrostachyum, Limonium cossonianum, Lygeum spartum, Ononis natrix, Sporobolus pungens* and *Teucrium dunense*	R	C6	300
Fusarium nematophilum, H.I. Nirenberg, G. Hagedorn	①	(xviii)	20	*Viola odorata*	R, Z	C1	451
Fusarium nivale, Sorauer	①	(xviii)	20	*Melia azedarach*	R, R X, S, L F	C4	475
Fusarium nygamai, L.W. Burgess, D. Trimboli.	①	(xviii)	20	Grass	U	C3	78
Fusarium oxysporum, D.F.L. Schlechtendal	①	(xviii)	20	*Acalypha indica, Alpinia officinarum, Avicennia marina, Axonopus compressus, Beta vulgaris, Brassica napus, Catharanthus roseus, Cylindropuntia echinocarpus, Ephedra fasciculata, Euterpe olerace, Glycine*	R, Y, L, G, C, L, M	C4, C4, C1, C1, C1	3, 2, 12, 33, 66, 73, 78, 82, 84, 86, 87, 97, 125, 129, 135, 143, 147,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				max, Ipomea acuminate, Juniperus recurva, Phaseolus vulgaris, Rhizophora annamalayana, Theobroma cacao, Viscum album, Vitis vinifera			148, 149, 150, 156, 162, 164, 199,542
Fusarium pallidoroseum, P.A. Saccardo	①	(xviii)	20	*Boswellia sacra*	S, L	C1	299
Fusarium pluriferatum	①	(xviii)	20	*Boswellia sacra*	S, L	C1	299
Fusarium poae, Wollenweber	①	(xviii)	20	*Boswellia sacra*	S, L	C1	103
Fusarium polyphialidicum, Marasas, P.E. Nelson, Toussoun & P.S. van Wyk	①	(xviii)	20	*Theobroma cacao, Hevea brasiliensis*	C, R, L	C4	167, 552
Fusarium proliferatum, H. Nirenberg	①	(xviii)	20	*Brassica napus, Celastrus angulatus, Rauwolfia serpentine, Vitis vinifera*	S, R, L, T	C1, C1	2, 50, 52, 66, 78, 83, 143, 144, 158
Fusarium pseudograminearum, T. Aoki, K. O'Donnell	①	(xviii)	20	Grass	U	C3	78
Fusarium pseudonygamai, H.I. Nirenberg, K. O'Donnell	①	(xviii)	20	*Eryngium foetidum*	S	C1	342
Fusarium pulverosum	①	(xviii)	20	*Centaurea stoebe*	W	C6	103
Fusarium redolens, H.W.Wollenweber	①	(xviii)	20	*Artemisia annua, Paris polyphylla*	T	C1, C1	50, 82
Fusarium roseum, H.F. Link	①	(xviii)	20	Aloe vera	O	C1	148
Fusarium sacchari, W. Gams	①	(xviii)	20	*Euterpe oleracea*	L	C4	189

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Fusarium sambucinum, L. Fuckel	①	(xviii)	20	*Aphelandra tetragona, Altheae rosea, Prunus avium*	L	C2	23, 492
Fusarium scirpi, Lambotte & Fautrey	①	(xviii)	20	*Triticum aestivum*	O	C2	12
Fusarium semitectum, Berkeley & Ravenel	①	(xviii)	20	*Euterpe oleracea*	L	C4	90, 141
Fusarium solani, P.A. Saccardo	①	(xviii)	20	*Apodytes dimidiate, Axonopus compressus, Brassica napus, Camptotheca acuminate, Glycine max, Licuala ramsayi, Musa accuminata* ssp., *Kigelia pinnata, Trachycarpus fortunei*	R, G, S, L	C7, C4, C1, C1, C1, C1	13, 50, 51, 55, 86, 87, 107, 125, 129, 143, 148, 150, 152, 158, 162, 164, 166, 304, 591
Fusarium sp.	①	(xviii)	20	*Acrostichum aureum, Avicennia marina, Basala alba, Buddleja asiatica, Canarium ovatum, Chamaecyparis thyoides, Cordemoya integrifolia, Dracaena, cambodiana, E. grandis, Glycine max, Gossypium hirsutum, Musa acuminata, Phaseolus vulgaris, Platanus orientalis, Rauwolfia serpentina, Ranunculus*	R, L, S, B, C,	C3, C4, C1, C1, C1, C2, C3, C3, C2, C1, C1	10, 6, 17, 12, 22, 24, 28, 29, 30, 32, 33, 36, 43, 45, 50, 53, 57, 60, 61, 69, 72, 75, 76, 77, 78, 80, 82, 84,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				ficaria, Rhizophora apiculata, Selaginella pollescens, Shorea siamensis, Sorbus aucuparia, Silybum			86, 90, 92, 93, 98, 99, 103, 105, 108,
				marianum, Teucrium scorodonia, Theobroma cacao, Toxicodendron vernicifluum, Vanda testacea, Withania somnifera			115, 117, 121, 125, 126, 129, 134, 143, 145, 146, 150, 151, 155, 156, 158, 164, 165, 169, 204
Fusarium sporotrichioides, C.D. Sherbakoff	①	(xviii)	20	*Pinus thunbergii*	R	C1	47, 87, 103, 141
Fusarium sterilihyphosum, Britz, Marasas & M.J. Wingfield	①	(xviii)	20	*Butea monosperma*	R, S	C1	51
Fusarium striatum, C.D. Sherbakoff	①	(xviii)	20	*Cananga odorata*	F, Z, S, B, R, R, B	C2	478
Fusarium subglutinans, Nelson, P.E.; Toussoun, T.A.; Marassas, W.F.O.	①	(xviii)	20	*Tripterygium wilfordii, Panax ginseng*	N	C1	78, 87, 125, 143, 158, 205

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Fusarium succisae, P.A. Saccardo	①	(xviii)	20	*Zea mays*	S	C1	357
Fusarium torulosum, J. de Gruyter & J.H.M. Schneider	①	(xviii)	20	*Cirsium kawakamii, Bromus tectorum*	S	C1	160
Fusarium tricinctum, P.A. Saccardo	①	(xviii)	20	*Artemisia annua, Brassica napus, Platanus orientalis*	L, S, R, T	C1, C4, C1	50, 80, 87, 93, 103
Fusarium verticillioides, H. Nirenberg	①	(xviii)	20	*Euterpe oleracea, Prunus avium*	L	C4	51, 492
Fusicladiella sp.	①	(v)	8	*C. fenestratum*	S	C1	375
Fusicladium betulae, R. Aderhold	①	(v)	34	*B. pendula*	L	C6	298
Fusicoccum macroclavatum, T.I. Burgess, P.A. Barber & G.E. Hardy	①	(v)	6	*Eucalyptus globulus*	O	C7	89
Fusicoccum macrosporum, Saccardo & Briard	①	(v)	6	*Fagus sylvatica*	C	C6	419
Fusicoccum ramosum, Pavlic, T.I. Burgess & M.J. Wingfield	①	(v)	6	*Eucalyptus* sp.	C	C7	427
Fusicoccum sp.	①	(v)	6	Mango, *Dendrobium*	L, S, R	C1	42, 202
Fusidium sp.	①	(xviii)	20	*Mentha arvensis*	L	C6	532
Gabarnaudia sp.	①	(xviii)	24	*Holcus lanatus*	G	C6	315
Gaeumannomyces cylindrosporus, D. Hornby, Slope, Gutteridge & Sivanesan	①	(xviii)	23	*Ammophila arenaria, Elymus farctus*	G	C6	87
Gaeumannomyces graminis, J. Walker	①	(xviii)	23	*A. thaliana*	H	C6	78, 87, 161

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Gaeumannomyces incrustans, Landschoot & N. Jackson	①	(xviii)	23	Grass	U	C3	78
Gaeumannomyces, Arx & D.L. Olivier	①	(xviii)	23	*Phragmites communis*	M	C1	209
Galactomyces, S.A. Redhead; D. MallochW.	①	(xxvii)	37	*Trapa japonica*	O	C6	122
Galactomyces geotrichum, Redhead & Malloch	①	(xxvii)	37	*Pseudorchis albida*	R	C1	259
Ganoderma carnosum, N.T. Patouillard	②	(i)	48	*Triticum aestivum*	O	C6	311
Ganoderma sp.	②	(i)	48	*Theobroma gileri*	S	C4	101, 102
Ganoderma tsugae, Murrill	②	(i)	48	*Theobroma gilero*	S	C4	102
Gelasinospora reticulata, Cailleux	①	(xviii)	39	*Ulex europaeus*	S,	C6	184
Gelasinospora tetrasperma, E.S. Dowding	①	(xviii)	39	*Chamaecyparis thyoides*	L	C3	9
Gelasinospora sp.	①	(xviii)	39	*Tylophora asthmatica*	S	C1	342
Geniculodendron sp.	①	(xv)	31	*Chamaecyparis thyoides*	L	C3	9
Geniculosporium serpens, C.G.C. Chesters,; G.N. Greenhalgh	①	(xviii)	47	*Chamaecyparis thyoides*, *Licuala ramsayi*	L	C3, C7	9, 76, 109, 304
Geniculosporium sp.	①	(xviii)	47	*Abies*, *Calocedrus decurrens*, *Cecropia sciadophylla*, *Chamaecyparis thyoides*, *Fagus crenata*, *Mora excelsa*, *Pinus*,	L, F	C3, C4, C3, C3	9, 10, 20, 29, 161, 173

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				Sequoia sempervirens, Teucrium scorodonia, Thuja plicata			
Geomyces luteus, H. Kwasna, & G.L. Bateman	①	(x)	21	*Ulva intestinalis*	A	C5	309
Geomyces pannorum, L. Sigler, J.W. Carmichael	①	(x)	21	*Colobanthus quitensis*	L	C5	306
Geomyces sp.	①	(x)	21	*Colobanthus quitensis*	L	C5	58
Geomyces vinaceus, G. Dal Vesco	①	(x)	21	*Centaurea stoebe*	W	C6	103
Geopyxis carbonaria, P.A. Saccardo	①	(xv)	31	*Geopyxis carbonaria*	L	C3	413
Geopyxis sp.	①	(xv)	31	*Pinus wallichiana*	S, N	C1	323
Geotrichum albidium	①	(xxvii)	37	*Pachira insigni*	B	C1	389
Geotrichum sp.	①	(xxvii)	37	*A. indica, Canarium ovatum, Cocoa, Vitis vinifera, Caesalpinia sappan, Theobroma cacao*	L, S, C	C4, C1, C1, C1	32, 33, 45, 66, 116, 125
Geotricum candidum, H.F. Link	①	(xxvii)	37	*Broussonetia papyrifera, Celtis occidentalis* and *Ligustrum lucidum*	L, L	C4	12, 90
Gibberella acuminata, Wollenweber	①	(xviii)	20	*Acer truncatum*	L	C1	76, 78
Gibberella avenacea, R.J. Cook	①	(xviii)	20	*Artemisia annua, Phleum pretense, Vitis vinifera*	T, L	C6	3, 47, 50, 66, 76, 103
Gibberella baccata, P.A. Saccardo	①	(xviii)	20	*Bauhinia forficata*	Z	C4	316

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Gibberella circinata, H.I. Nirenberg, K. O'Donnell	①	(xviii)	20	*Zea mays*	S	C1	357
Gibberella fujikuroi, H.W. Wollenweber	①	(xviii)	20	*Theobroma cacao, Oryza*	C, S, R, L	C4	33, 146
Gibberella intermedia, E.G. Kuhlman	①	(xviii)	20	*Zea mays*	S, R, L,	C1	2
Gibberella moniliformis, G.O. Wineland	①	(xviii)	20	*Cannabis sativa*, *Panax ginseng*, *Theobroma cacao*	C, L	C4, C1, C1	33, 50, 136, 146
Gibberella olsonii	①	(xviii)	20	*Coffea*	H	C1	355
Gibberella pulicaris, P.A. Saccardo	①	(xviii)	20	*Vitis vinifera*	U	C6	274
Gibberella sp.	①	(xviii)	20	*Bletilla ochracea*	R, L	C1	50, 69, 78, 88, 98
Gibberella zeae, T. Petch	①	(xviii)	20	*Glycine max, Theobroma cacao*	C, R	C4	33, 129
Gibellulopsis nigrescens, Zare, W. Gams & Summerbell	①	(xviii)	52	*Gossypium hirsutum*	L, F	C3	47
Gilmaniella sp.	①	(vii)	21	*Rhododendrn, A. lancea*	S, L	C6	57
Glarea sp.	①	(x)	18	*Holcus lanatus*	G	C6	87
Gliocladiopsis sp.	①	(xviii)	20	*Zingiber officinale*	M	C1	71
Gliocladium catenulatum, Zare, W. Gams & Summerbell	①	(xviii)	20	*Theobroma cacao*	C	C4	33, 148
Gliocladium cibotii, J.F.H. Beyma	①	(xviii)	20	*Aphelandra tetragona*	R, S	C6	23
Gliocladium delequescens, O.J. Sopp	①	(xviii)	20	*Crataeva magna*	B	C1	393

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Gliocladium roseum, G. Bainier	①	(xviii)	20	*Eucryphia cordifolia,,Vitis vinifera*	S	C4	12, 67, 125, 282
Gliocladium sp.	①	(xviii)	20	*Eucryphia cordifolia, cocoa, Theobroma cacao, Sapindus lourifolius, Vanda testacea*	C, R, L	C4, C1, C1	12, 33, 45, 99, 116, 125, 161
Gliocladium solani, (Harting) T. Petch	①	(xviii)	20	*Artemisia scoparia*	S, R, L	C1	68
Gliocephalotrichum sp.	①	(xviii)	20	*Keteleeria fortunei, Keteleeria fortunei, Pinus elliottii, Pinus massoniana*	N	C1	558
Gliomastix sp.	①	(xviii)	20	*Paris polyphylla*	M	C1	100, 181,
Gliomastix murorum, S. Hughes	①	(xviii)	20	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	100, 181,
Gliomastix novae-zelandiae, S. Hughes & C.H. Dickinson	①	(xviii)	20	*Paris polyphylla*	M	C1	491
Glionectria sp.	①	(xviii)	20	*Rafflesia*	Z	C1	71
Globisporangium irregulare, S. Uzuhashi; M. Tojo; M. Kakishima				*Gaultheria fragrantissima*	L, S, R	C1	575
Gloecephalis sp.	①	(xviii)	20	*Prunus africana*	L, S, B, R	C2	468
Gloeophyllum sp.	②	(i)	61	*Caladenia carnea*	R	C7	122
Gloeosporidiella sp.	①	(x)	18	*Abies alba*	L	C6	201
Gloeosporium sp.	①	(x)	18	*Tsuga heterophylla*	C	C3	533

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Gloeosterioid sp.	②	(vii)	21	*T. cacao*	S, F	C4, C2	102
Glomerella acutata, Guerber & J.C. Correll	①	(xviii)	52	*Rauwolfia serpentina, Solanum cernuum*	T	C1	50, 80
Glomerella cingulata, Spaulding & H. Schrenk	①	(xviii)	52	*Calotropis procera, Chamaecyparis thyoides, Musa accuminata* sp., *Trachycarpus fortunei*	L	C7, C4, C1, C1, C3	9, 13, 30, 34, 69, 73, 80, 86, 94, 95, 96, 110, 117, 132, 144, 154, 384, 591
Glomerella magna, S.F. Jenkins, N.N. Winstead	①	(xviii)	52	*Oryza granulate*	S	C1	353
Glomerella miyabeana, T. Fukushi, T.	①	(xviii)	52	*Acer truncatum*	L	C1	1, 76
Glomerella sp.	①	(xviii)	52	*Avicennia marina, Excoecaria agallocha, Plumeria rubra*	L	C1	17, 18, 22, 32, 56, 77, 84, 88, 94, 144
Glomerella truncata, C.L. Armstrong & Banniza	①	(xviii)	52	*Artemisia*	L	C1	95
Glomerularia sp.	②	(xvi)	33	*Aquilaria sinensis, Dendrobium*	R, S, L	C1	193
Glonium pusillum, H. Zogg	①	(v)	76	*Taxus globose*	O	C3	74

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Gnomonia petiolorum, M.C. Cooke	①	(xviii)	14	*Holcus lanatus*	G	C6	315
Gnomonia setacea, Cesati & De Notaris	①	(xviii)	14	*Alnus rubra*	L	C6, C4	201, 298
Gnomonia sp.	①	(xviii)	14	*Alnus*, *Gossypium hirsutum*, *B. pubescens* and *B. pendula*	L	C3, C6	29
Gnomoniella pongamiae, Singh, Gaikwad & Waingankar	①	(xviii)	14	*Pongamia pinnata*	O	C1	177
Gnomoniella sp.	①	(xviii)	14	*Alnus rubra*	L	C6C4	29
Gnomoniella tubiformis, P.A. Saccardo	①	(xviii)	14	*Alnus rubra*	L	C6C4	201
Gnomoniopsis idaeicola, D.M. Walker	①	(xviii)	14	*Triticum aestivum*	O	C6	311
Gonatobotrys simplex, A.C.J. Corda	①	(vii)	21	*Terminalia arjuna*	B, T	C1	393
Gonatobotryum bimorphosporum, M. Jacob, D.J. Bhat	①	(vii)	21	*Carrissa carandas*	L	C1	177
Gonatobotryum sp.	①	(vii)	21	*Carissa carandas*	L	C1	66
Gonatophragmium mori, F.C. Deighton	①	(v)	67	*Thalassia* sp.	A	C1	330
Gongronella butler, Peyronel & Dal Vesco	⑦	(xxviii)	26	*Pinus thunbergii*	R	C1	297
Gongronella sp.	⑦	(xxviii)	26	*Melastoma malabathricum*	R, S, L	C1	351
Graphium penicillioides, A.C.J. Corda	①	(xviii)	24	*Phragmites australis*	L, R	C6	146
Graphium pseudormiticum, M. Mouton & M.J. Wingfield	①	(xviii)	24	*Phragmites australis*	L, R	C6	146

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Graphium sp.	①	(xviii)	24	*Euterpe oleracea*	L	C4	146
Gremmeniella abietina, M. Morelet	①	(x)	18	*Pinus halepensis*	N	C6	83
Grovesiella abieticola, M. Morelet & Gremmen	①	(x)	18	*Abies alba*	T	C6	201
Guehomyces sp.				Soybean	H	C1	573
Guignardia bidwellii, Viala & Ravaz	①	(v)	6	*Calotropis procera, Garcinia hombroniana*	L	C4	73, 117, 150
Guignardia camelliae, E.J. Butler	①	(v)	6	*Jatropha curcas*	L	C1	52
Guignardia citricarpa, T.B. Kiely	①	(v)	6	*Citrus* spp.	L Hs	C4	466
Guignardia cocogena, Punithalingam	①	(v)	6	*Livistona chinensis, Trachycarpus fortunei*	L	C1, C1	379, 591
Guignardia cocoicola, Punithalingam	①	(v)	6	*Musa acuminata*	S	C1	17, 30
Guignardia endophyllicola, Okane, Nakagiri & Tad. Ito	①	(v)	6	*Dendrobium crumenatum*	O	C1	331
Guignardia mangiferae, Roy, A.J.	①	(v)	6	*Citrus* sp., *Centella asiatica*	L	C1	36, 42, 79, 86, 92, 110, 128, 129, 132, 144
Guignardia philoprina, Aa, H.A. van der.	①	(v)	6	*Axinaea sodiroi, Glycine max, Garcinia* sp.	L, S	C4, C4, C1	89

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Guignardia sp.	①	(v)	6	*Holcus lanatus*	G	C6	8, 14, 20, 30, 31, 32, 60, 150, 154, 202
Guignardia vaccinii, C.L. Shear	①	(v)	6	*Camptotheca acuminate*, *Catostemma fragrans*, *Canarium ovatum*. *Eperua falcata*, *E. grandis*, *Heterosmilax japonica*, Mangrove plant, *Spondias mombin*, *Sclerolobium micropetalum*, *Tripterygium wilfordii*	L, S	C1, C4, C1, C2	76, 150, 208
Guinardia heveae, H. Sydow, P. Sydow	①	(v)	6	*Brassica napus*, *Hevea brasiliensis*	L, R, S,	C1	167
Gymnomyces sp.	②	(i)	36	*Limodorum abortivum*	R	C6	122
Gyromitra sp.	①	(xv)	31	*T. globosa*	S, L, C, B, V, R	C6, C6	237
Haematonectria haematococca, Samuels & Nirenberg	①	(xviii)	20	N.S.	L	C3	20
Haematonectria ipomoeae, Samuels & Nirenberg	①	(xviii)	20	*Phoradendron perrottettii*, *Tapirira guianensis*	L, S	C4	334
Hainesia lythri, F. von Höhnel	①	(x)	18	*Eucalyptus globulus*	S	C4	305
Hainesia sp.	①	(x)	18	*Rhoiptelea chiliantha*, *Silene dioica*	L	C6, C1	172
Halocyphina sp.	②	(i)	1	*Caladenia carnea*	R	C7	122

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Halocyphina villosa, Kohlmeyer & E. Kohlmeyer	②	(i)	1	*Dipodium variegatum*	R	C7	431
Haloguignardia irritans, Cribb & J. W. Cribb	①	(xviii)	70	*Cystoseira* sp.	A	C3	534
Halorosellinia sp., Whalley, E.B.G. Jones, K.D. Hyde & Læssøe	①	(xviii)	47	Grass	U	C3	196
Hannaella oryzae, (Nakase & M. Suzuki) F.Y. Bai & Q.M. Wang	②	(xix)	49	*Phaseolus vulgaris*	L	C4	207
Hannaella sp.	②	(xix)	49	*Phaseolus vulgaris*	L	C4	207
Hanseniaspora guilliermondii, A. Pijper	①	(xxvii)	37	*Rosa canina, Prunus domestica*	F	C6	90, 136
Hansfordia sp.	①	(xxvii)	37	*Panax ginseng*	L	C1	90, 136
Haplographium, Berkeley & Broome	①	(vii)	21	*Licuala ramsayi*	L	C7	178
Haplosporangium sp	①	(x)	18	*Ventilago madraspatana*	R	C1	141
Haplosporella acaciae	①	(v)	6	*Sonneratia caseolaris*	R	C1	395
Haplotrichum minutissimum, Novas and Carmaran	②	(i)	7	*Broussonetia papyrifera, Celtis occidentalis* and *Ligustrum lucidum*	L, L	C3	90
Harknessia hawaiiensis, F. Stevens & E. Young	①	(xviii)	14	*Eucalyptus globulus*	S	C4	305
Harknessia thujina, Ellis & Everhart	①	(xviii)	14	*Chamaecyparis thyoides*	L	C3	9
Harpophora sp.	①	(xviii)	23	*Oryza granulate*	R	C1	353

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Hebeloma pusillum, J.E. Lange	②	(i)	1	*Phragmites australis*	L	C6	389
Hebeloma sp.	②	(i)	1	*Phragmites australis*	L	C6	122
Heinesia rubi	①	(x)	18	*Tylophora asthmatica*	S	C1	342
Helgardia sp.	①	(x)	18	*Festuca*	L	C6	121
Helgardia aestiva, (Nirenberg) P.W. Crous & W. Gams	①	(x)	18	*Dactylis glomerata*	G	C6	512
Helgardia anguioides, P.W. Crous & W. Gams	①	(x)	18	*Dactylis glomerata*	G	C6	121
Helicomyces sp.	①	(v)	45	*C. viminea*, *E. adenophorum*, *R. alpina**, *V. wallichii*	R	C3	122
Helicomyces roseus, H.F. Link	①	(v)	45	*Helicomyces*	A	C3	535
Helicosporium, Nees von Esenbeck	①	(v)	45	*C. viminea*, *Pteridophytes*, *R. hastatus*, grass, *V. wallichii*	R	C6	272
Helicosporium lumbricoides, P.A. Saccardo	①	(v)	34	*Holcus lanatus*	G	C6	356
Helicosporium pallidum, Cesati	①	(v)	45	*Rhododendrn*	S, L	C6	87
Heliscus lugdunensis, P.A. Saccardo & Therry	①	(xviii)	20	*Alnus glutinosa*	R	C6	536
Helminthosporium solani, Durieu & Montagne	①	(v)	34	Mediterranean tress	R	C6	300

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Helminthosporium sp.	①	(v)	34	*Cordemoya integrifolia, Musa acuminata*	L	C2, C1	17, 24, 99
Helminthosporium velutinum, H.F. Link	①	(v)	34	*Sorghum*	R	C1	76
Hendersonia sp.	①	(v)	34	*Elaeis guineensis*	S, R	C1	372
Herpotrichia sp.	①	(v)	34	*D. antarctica, C. quitensis*	L	C1	121
Heterobasidion occidentale, W.J. Otrosina, M. Garbelotto	②	(i)	36	Bromus	R	C3	512
Heterobasidion sp.	②	(i)	36	*Capsicum annuum*	L, S, R	C1	339
Heteroconium chaetospira, M.B. Ellis	①	(v)	8	*Chinese cabbage*	R	C1	404
Heterosporium terrestre, R.G. Atkinson	①	(v)	8	*Sonneratia caseolaris*	R	C1	395
Heyderia abietis, Weinmann	①	(x)	18	*Pinus ponderosa*	L	C3	100
Hirsutella sp.	①	(xviii)	20	*Paris polyphylla*	M	C1	278
Hormiactis sp.	①	(vii)	21	*Rhododendron*	S, L	C6	277
Hormonema dematioides, Lagerberg & Melin	①	(v)	15	*Chamaecyparis thyoide*	L	C3	9
Hormonema sp.	①	(v)	15	*Crataegus monogyna, Juniperus communis, Pinus monticola, Pinus strobus*	L	C3, C3	10
Hortaea werneckii, Nishimura & Miyaji	①	(v)	8	*A. marina*	L	C1	590
Humicola fuscoatra, A.E. Traaen	①	(xviii)	39	*Pachira insigni*	R	C6	300

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Humicola grisea, A.E. Traaen	①	(xviii)	39	*Hyoscyamus muticus*	R	C1	156
Humicola nigrescens, A. Omvik	①	(xviii)	39	*Broussonetia papyrifera, Celtis occidentalis* and *Ligustrum lucidum*	L, L	C3	90
Humicola sp.	①	(xviii)	39	*Cordemoya integrifolia, Eperua falcata, Jacaranda* sp., *Vitis vinifera*	L, R	C4, C2, C6	20, 24, 66, 77, 122
Hyalodendriella sp.	①	(x)	18	*Populus deltoides*	S	C1	288
Hyalodendron sp.	②	(xix)	68	*Cordemoya integrifolia, Dendrobium*	L, R	C1, C2	24, 122
Hydropus, Kühner ex Singer	②	(i)	1	*Gastrodia confusa*	R	C1	122
Hymenogaster sp.	②	(i)	1	*Epipactis microphylla*	R	C6	122
Hyphodermella rosae, K.K. Nakasone	②	(i)	48	*Triticum aestivum*	O	C6	311
Hyphodiscus sp., W. Kirschstein	①	(x)	18	*Barbilophozia hatcheri*	O	C5	308
Hypocrea, E.M. Fries	①	(xviii)	20	*Pinus thunbergii*	R	C6	122, 164
Hypocrea caerulescens, Jaklitsch & Voglmayr	①	(xviii)	20	*Taxus globosa*	O	C1	297
Hypocrea jecorina, Berkeley & Broome	①	(xviii)	20	*Phragmites australis*	R	C3	74
Hypocrea koningii, Lieckfeldt, Samuels & W. Gams	①	(xviii)	20		R	C6	146
Hypocrea lactea, E.M. Fries	①	(xviii)	20	*Phragmites australis*	R	C6	300
Hypocrea lixii, N.T. Patouillard	①	(xviii)	20	*Juniperus procera*	T	C6	58, 78, 146, 164

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Hypocrea lutea, T. Petch	①	(xviii)	20	*Saraca asoca*	S, L, B	C1	426
Hypocrea rufa, E.M. Fries	①	(xviii)	20	*Anathallis sclerophylla*	L, S, R	C1	377
Hypocrea schweinitzii, P.A. Saccardo	①	(xviii)	20	*Wullschlaegelia aphylla*	R, M	C3	6
Hypocrea viridescens, Jaklitsch & Samuels	①	(xviii)	20	*Scapania verrucosa*	O	C1	495
Hypoxylon anthochroum, Berkeley & Broome	①	(xviii)	47	*Humboldtia brunonis*	L, S	C1	498
Hypoxylon bipapillatum, Berkeley & M.A. Curtis	①	(xviii)	47	*Ulex europaeus, Sequoia sempervirens*	X, L, F	C6	184
Hypoxylon crocopeplum, Berkeley & M.A. Curtis	①	(xviii)	47	*Taxus globosa*	O	C3	74
Hypoxylon deustum, R.K. Greville	①	(xviii)	47	*Chamaecyparis thyoides*	L	C3	9
Hypoxylon fragiforme, Kickx, J.	①	(xviii)	47	*Withania somnifera, Fagus sylvatica*	T	C1, C6	50, 154
Hypoxylon fuscum, E.M. Fries	①	(xviii)	47	*Holcus lanatus*	G	C6	109
Hypoxylon haematostroma, J.P.F.C. Montagne	①	(xviii)	47	*Taxus globosa*	O	C1	269
Hypoxylon investiens, Curtis, M.A.	①	(xviii)	47	*Phlegmariurus phlegmaria*	L	C1	263
Hypoxylon monticulosum, J.P.F.C. Montagne	①	(xviii)	47	*Cephalotaxus hainanensis*	W	C1	489

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Hypoxylon notatum, Berkeley & M.A. Curtis	①	(xviii)	47	*Panax ginseng*	L	C1	136
Hypoxylon perforatum, E.M. Fries	①	(xviii)	47	*Panax ginseng*	L	C1	95, 136
Hypoxylon pulicicidum, J. Fournier, Polishook & Bills	①	(xviii)	47	*Taxus chinensis*	L	C3	125
Hypoxylon quisquiliarum, J.P.F.C. Montagne	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Hypoxylon serpens, J. Kickx	①	(xviii)	47	*Euterpe oleracea*, *Fagus sylvatica*	L	C4, C6	189
Hypoxylon sp.	①	(xviii)	47	*Brassica napus*, *Euterpe oleracea*, *Pholidota pallida*	R, S, L	C4, C1, C1	1, 60, 122, 150, 151
Hypoxylon stygium, P.A. Saccardo	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Hypoxylon ticinense, L.E. Petrini	①	(xviii)	47	*Panax ginseng*	L	C1	136
Hypoxylon truncatum, J.H. Miller	①	(xviii)	47	*Artemisia annua*	S	C1	196
Idriella asaicola, K.F. Rodrigues & Samuels	①	(x)	18	*Euterpe oleracea*	L	C4, C4	177
Idriella amazonica, K.F. Rodrigues & Samuels	①	(x)	18	*Euterpe oleracea*	L	C4, C4	177
Idriella euterpes, K.F. Rodrigues & Samuels	①	(x)	18	*Euterpe oleracea*	L	C4	177

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Idriella licualae, K.F. Rodrigues & Samuels	①	(x)	18	*Licuala ramsayi*	L	C7, C3	177, 304
Idriella lunata, P.E. Nelson & S. Wilhelm	①	(x)	18	*S. grandis*	L, R	C1	82
Idriella sp.	①	(x)	18	*Betula platyphylla, Quercus liaotungensis, Ulmus macrocarpa*	L, C	C1	1
Ilyonectria sp.	①	(xviii)	20	*Pinus thunbergii*	R	C1	278
Ilyonectria coprosmae, (Dingley) Chaverri & C. Salgado	①	(xviii)	20	*Dysosma versipellis*	R	C1	572
Ilyonectria cyclaminicola, A. Cabral & P.W. Crous	①	(xviii)	20	*Triticum aestivum*	O	C1	297
Ilyonectria macrodidyma, P. Chaverri & C. Salgado	①	(xviii)	20	*Phoenix dactylifera*	R	C6	311
Ilyonectria radicicola, Chaverri & C. Salgado	①	(xviii)	20	*Paris polyphylla*	M	C6	446
Ilyonectria robusta, (A.A. Hildebrand) A. Cabral & P.W. Crous	①	(xviii)	20	*Dysosma versipellis*	M	C1	572
Ilyonectria torresensis, A. Cabral, C. Rego & P.W. Crous	①	(xviii)	20	*Dysosma versipellis*	M	C1	572
Inonotus sp.	②	(i)	19	*T. cacao*	S, F	C4, C2	101, 102, 104, 177

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Irpex lacteus, E.M. Fries	②	(i)	48	*N. nimmoniana, Pinus thunbergii*	R	C1	243
Isaria farinosa, (Holmsk.) Fr., Systema	①	(xviii)	20	*Gaultheria fragrantissima*	T	C1	575
Isaria fumosorosea, Wize	①	(xviii)	20	Fescue	R	C3	365
Isaria sp.	①	(xviii)	20	*Crataeva magna*	T	C1	170
Ischnoderma benzoinum, P. Karsten	②	(i)	48	*Diospyros crassiflora*	O	C6	273
Juxtiphoma eupyrena (Sacc.) Valenz. - Lopez, Crous, Stchigel, Guarro & J.F. Cano	①	(v)	34	*Gaultheria fragrantissima*	T	C1	575
Kabatia juniperi, R. Schneider & Arx	①	(v)	15	*Juniperus communis*	L	C6	201
Kabatiella bupleuri, G.F. Bills	①	(v)	15	*Bupleurum gibraltariu*	L	C6	447
Kabatiella harpospora, J.A. Arx	①	(v)	15	*Viscum album*	S, L	C6	447
Kabatiella microsticta, F. Bubák	①	(v)	15	*Ammophila arenaria*	G	C6	78
Kabatiella sp.	①	(v)	15	*Ammophila arenaria*	G	C6	315
Kabatina sp.	①	(v)	15	*Rhododendron*	S, L	C6	277
Kendrickomyces indicus, B. Sutton, V.G. Rao & Mhaskar	①	(vii)	21	*Eucalyptus globulus*	S	C4	305
Khuskia sp.	①	(xviii)	44	*Coffea arabica*	L	C4	20
Khuskia oryzae, H.J. Hudson	①	(xviii)	44	*Goupia glabra, Jacaranda* sp.	L, B	C6	132
Knufia sp.	①	(vi)	10	*Fragaria vesca*	R	C6	467

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Kodamaea sp.	①	(xxvii)	37	*Paris polyphylla*	M	C1	278
Kondoa aeria, Á. Fonseca, J.P. Sampaio & Fell	②	(ii)	2	*Elymus farctus*	G	C6	315
Kretzschmaria deusta, P.M.D. Martin	①	(xviii)	47	*Fraxinus*	L	C3, C6	448, 589
Kretzschmaria sp.	①	(xviii)	47	Thai Plants	N.S.	C1	159
Kumbhamaya goanensis, M. Jacob, D.J. Bhat	①	(iii)	21	*Flacourtia montana*	L	C1	325
Kumbhamaya indica, M. Jacob, D.J. Bhat	①	(iii)	21	*Carissa carandas*	L	C1	177
Kumbhamaya sp.	①	(iii)	21	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Lachnum pygmaeum, G. Bresadola	①	(x)	18	*Elymus farctus*	G	C6	315
Lachnum sp.	①	(x)	18	*Pseudorchis albida, Toxicodendron vernicifluum*	B, R	C6, C6	87, 122, 134
Lachnum virgineum, P.A. Karsten	①	(x)	18	*Panax ginseng*	R, S	C1	502
Laetisaria arvalis, H.H. Burdsall	②	(i)	12	*Dactylis glomerata*	G	C6	315
Lanspora sp.	①	(xviii)	69	*Cinnamomum*	R, L	C1	60
Lasiodiplodia bruguierae, J.A. Osorio, Jol. Roux & Z.W. de Beer	①	(v)	6	*Bruguiera gymnorrhiza*	C	C2	409

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Lasiodiplodia crassispora, T. Burgess & Barber	①	(v)	6	*Vitex negundo*	L	C1	89
Lasiodiplodia gonubiensis, Pavlic, Slippers & M.J. Wingfield	①	(v)	6	*Persea americana*	C	C3	89
Lasiodiplodia parva, A.J.L. Phillips, A. Alves & P.W. Crous	①	(v)	6	*Terminalia*	N	C2	89
Lasiodiplodia pseudotheobromae, A.J.L. Phillips, A. Alves & P.W. Crous	①	(v)	6	*Coffea arabica*, *Vitex negundo*	L	C6	89, 132
Lasiodiplodia rubropurpurea, T. Burgess, Barber & Pegg	①	(v)	6	*Eucalytus* sp.	C	C7	89
Lasiodiplodia sp.	①	(v)	6	*Naucleopsis oblongifolia*, *Pholidota pallida*	R, LS	C4, C1	32, 79, 122, 141, 164
Lasiodiplodia theobromae, E. Griffon, A. Maublanc	①	(v)	6	*Euterpe oleracea*, *Mango*, *Rauwolfia serpentina*, *Theobroma cacao*	C, L, T	C4, C4, C1	13, 32, 33, 50, 62, 77, 89, 90, 151, 164
Lasiosphaeria hispida, L.L. Fuckel	①	(xviii)	39	*Phragmites australis*	L, R	C6	146
Lasmenia balansae, C. Spegazzini	①	(vii)	21	*Bauhinia forficata*	S	C4	316
Lasmenia sp.	①	(vii)	21	*Bauhinia forficata*	S	C4	316
Lautitia danica, S. Schatz	①	(v)	34	*Chondrus crispus*	A	C6	446

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Lecanicillium araneicola, Sukarno & Kurihara	①	(iii)	21	*Monostroma hariotii*	A	C5	309
Lecanicillium dimorphum, R. Zare; W. Gams	①	(iii)	21	*Phoenix dactylifera*	L	C6	170
Lecanicillium lecanii, R. Zare; W. Gams	①	(iii)	21	*Gossypium* spp.	L, R	C4	66, 73
Lecanicillium psalliotae, R. Zare; W. Gams	①	(iii)	21	*P. perrottettii, Tapirira guianensis*	S, L	C4	334
Lecythophora decumbens, E. Weber, Görke & Begerow	①	(xviii)	39	*Vellozia gigantea*	R, L	C4	478
Lecythophora hoffmannii, W. Gams; McGinnis, M.R.	①	(xviii)	39	*Panax ginseng*	L	C1	74, 90, 136
Lecythophora sp.	①	(xviii)	39	*Panax ginseng, Alyxia reinwardtii*	L	C1	538
Leiosphaerella cocoe, Samuels & Rossman	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Leiosphaerella praeclara, F. von Höhnel.	①	(xviii)	47	*Eucalyptus globulus*	V	C4	479
Lentinus sp.	②	(i)	48	*Theobroma gileri, T cacao*	S, F	C4, C4, C2	101, 102
Lentinus squarrosulus, J.P.F.C. Montagne	②	(i)	48	*Theobroma gilero*	S	C4	102
Lentinus tigrinus, E.M. Fries	②	(i)	48	*Quercus brantii*	T	C1	474
Lentomitella cirrhosa, Réblová, M.	①	(xviii)	89	*C. luteoculcitella and Holoxea sp*	J	C1	511

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Lenzites elegans, Patouillard, N.	②	(xxvi)	48	*Vitis labrusca*	L	C4	481
Leohumicola sp.	①	(x)	21	*Submerged aquatic plant*	R	C6	122
Leohumicola minima, S. Hambleton, N.L. Nickerson, K.A. Seifert	①	(x)	21	*Pseudorchis albida*	R	C6	285
Leotiomyceta sp.	①	(vii)	21	*Pinus halepensis, Ulva lactuca*	A	C6	49, 83
Lepiota sp.	②	(i)	1	*Gastrodia confusa*	R	C1	122
Leptodontidium elatius, G.S. de Hoog.	①	(x)	21	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Leptodontidium orchidicola, Sigler & Currah	①	(x)	21	*Coeloglossurn viride*	R	C3, C1	162, 163
Leptodontidium sp.	①	(x)	21	*Platanthera chlorantha*	R	C6	87, 121
Leptosphaeria avenaria, G.F. Weber	①	(v)	34	Grass	U	C3	78
Leptosphaeria biglobosa, R.A. Shoemaker; H. Brun	①	(v)	34	*Brassica napus*	R, S	C1	76
Leptosphaeria coniothyrium, P.A. Saccardo	①	(v)	34	Milfoil	S, L	C3	385
Leptosphaeria maculans, V. Cesati; G. De Notaris	①	(v)	34	*Arabidopsis thaliana*	L	C6	58, 161
Leptosphaeria pedicularis, J. de Gruyter, Aveskamp & G.J.M. Verkley	①	(v)	34	*Saxifraga*	R	C3	121

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Leptosphaeria sp.	①	(v)	34	*Opuntia*, *Glycine max*, *Pinus halepensis*, *Ulva intestinalis*, *Vitis vinifera*, *Hevea brasiliensis*	L	C4, C6	29, 49, 57, 58, 66, 76, 83, 87, 92, 121, 122, 129, 146, 167
Leptosphaerulina americana, J.H. Graham & Luttrell	①	(v)	34	*E. longifolia*	L	C7	388
Leptosphaerulina australis, D. McAlpine	①	(v)	34	Olive	L	C6	565
Leptosphaerulina chartarum, C. Roux	①	(v)	34	*Vitis vinifera*	U	C6	80, 164
Leptosphaerulina crassiasca, C.R. Jackson, D.K. Bell	①	(v)	34	Peanut	L	C1	77
Leptosphaerulina sp.	①	(v)	34	*Bletilla ochracea*	R, L	C1	77, 80, 98, 110, 122
Leptosphaerulina trifolii, F. Petrak	①	(v)	34	*Centaurea stoebe*	W	C6	103
Leptosphaerulina saccharicola, Phookamsak, Jian K. Liu & K.D. Hyde	①	(v)	34	Olive	L	C6	565
Leptospora rubella, Rabenhorst	①	(v)	15	*Glycine max*	L	C4	129
Leptostroma sp.	①	(x)	35	*Abies*, *Picea*	N	C3	29
Leptostromella sp.	①	(vii)	21	*Rhododendron*	S, L	C6	277

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Letendraea helminthicola, Weese ex Petch	①	(v)	45	*Taxus globosa*	O	C3	74
Letendraea sp.	①	(v)	45	*Eugenia aff. bimarginata*	L	C3	443
Letendraeopsis palmarum, K.F. Rodrigues, G.J. Samuels	①	(v)	45	*Euterpe oleracea*	L	C4	189
Leucosporidiella sp.	②	(xi)	73	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	O W	C5	121
Leucosporidium drumii, A.M. Yurkov, A.M. Schäfer, D. Begerow	②	(xi)	73	*Arabidopsis thaliana*	L, S, L	C6	58
Leucostoma persoonii, (Nitschke) (Corda) Höhnel	①	(xviii)	14	*Rhizophora mangle*	C	C3	88
Lewia eureka, E.G. Simmons	①	(v)	34	*Theobroma gileri*	S	C4	102
Lewia infectoria, E.G. Simmons	①	(v)	34	*Gossypium hirsutum, Vismia latifolia*	L	C3, C4	58, 82
Lewia sp.	①	(v)	34	*Besleria insolita*	L	C3	3
Libertella aurantiaca, G.E. Massee	①	(xviii)	47	*Eucalyptus nitens*	O	C7	436
Libertella heveae, B.C. Sutton	①	(xviii)	47	*Anemone nemorosa, Reuwolfia tetraphylla*	L	C6	10
Libertella sp.	①	(xviii)	47	*Vitis vinifera*	L, T, F	C6	66, 90
Lichtheimia corymbifera, P. Vuillemin	⑧	(xxi)	26	*Ascophyllum nodosum*	A	C6	49

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Linodochium sp.	①	(vii)	21	*Calocedrus decurrens*	L	C3	201
Lopadostoma turgidum, (Persoon) J.B. Traverso	①	(xviii)	47	*Hymenoscyphus fraxineus*	U	C6	567
Lophiostoma corticola, E.C.Y. Liew, Aptroot & K.D. Hyde	①	(v)	34	*Eucalyptus globulus*	V	C6	479
Lophiostoma helminthicola	①	(v)	34	*Rhizophora mucronata*	L	C1	508
Lophiostoma sp.	①	(v)	34	*Panax ginseng, Toxicodendron vernicifluum*	L, B	C1, C1,	133, 134, 136, 169,
Lophodermium australe, J. Dearness	①	(x)	35	*Pinus koraiensis*	N	C1	350
Lophodermium baculiferum, Mayr,	①	(x)	35	*Pinus ponderosa*	L	C3	413
Lophodermium conigenum, A. Hilitzer	①	(x)	35	*Pinus koraiensis*	N	C1	350
Lophodermium macci, Sokolski & Bérubé	①	(x)	35	*Pinus koraiensis*	N	C1	350
Lophodermium nitens, G.D. Darker	①	(x)	35	*Pinus strobus*	L	C3	201
Lophodermium piceae, F. von Höhnel.	①	(x)	35	*Picea abies, Picea glauca, Pinus massoniana, Picea sitchensis*	L	C1, C3, C6, C6	123
Lophodermium pinastri, Chevallier	①	(x)	35	*Pinus densiflora, Pinus mugo, Pinus massoniana, Pinus sylvestris, Pinus thunbergii*densiflora*	L	C1C1, C6, C6	83, 123
Lophodermium pini-excelsae, S. Ahmad	①	(x)	35	*Pinus koraiensis*	N	C1	350

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Lophodermium seditiosum, Minter, Staley & Millar	①	(x)	35	*Pinus sylvestris*	N	C6	201
Lophodermium sp.	①	(x)	35	*Abies amabilis, Abies balsamea, Abies procera, Pinus attenuata, Pinus banksiana, Pinus lambertiana, Pinus ponderosa, Pinus resinosa, Tsuga mertensiana, Pinus halepensis,*	L	C3, C3, C3	29, 58, 83, 100, 123, 173
Loptospora rubella, Rabenhorst	⑥	(vii)	21	*Panax ginseng*	L	C1	136
Lulworthia grandispora, S.P. Meyers	①	(xviii)	70	*Sonneratia caseolaris*	R	C1	395
Lulworthia sp.	①	(xviii)	70	*Avicennia officinalis*	R	C1	395
Macowanites, C. Kalchbrenner	②	(i)	36	*Limodorum abortivum*	R	C6, C6	122
Macrophoma abensis	①	(v)	6	*Camellia oleifera*	L, F	C1	507
Macrophoma kawatsukai, K Hara.	①	(v)	6	*Camellia oleifera*	L	C1	507
Macrophoma musae, (P.A. Saccardo) Berlese, A.N.; Voglino, P.	①	(v)	6	*Camellia oleifera*	F	C1	507
Macrophomina phaseolina, G. Goidànich	①	(v)	6	*Glycine max*	R	C4	66, 78, 129
Macrophomina sp.	①	(v)	6	*Brassica napus*	R	C1	108
Magnaporthe grisea, M.E. Barr	①	(xviii)	23	*Phaseolus vulgaris*	L	C4	207
Magnaporthe rhizophila, D.B. Scott; J.W. Deacon	①	(xviii)	23	Grass	U	C3	78

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Magnaporthe sp.	①	(xviii)	23	*Phaseolus vulgaris*	L	C3	207
Mammaria sp.	①	(xviii)	39	*Excoecaria agallocha*	N.S.	C1	18
Marasmiellus candidus, R. Singer	②	(i)	1	*Phoenix dactylifera*	R	C6	446
Marasmiellus sp.	②	(i)	1	*Gastrodia confusa*	R	C1	122
Marasmius alliaceus, (Jacquin) E. Fries	②	(i)	1	*C. luteoculcitella and Holoxea sp*	J	C1	511
Marasmius nigrobrunneus, P.A. Saccardo	②	(i)	1	Grass	U	C3	78
Marasmius sp.	②	(i)	1	*Alpinia officinarum*	M	C1	76, 126
Mariannaea camptospora, R.A. Samson	①	(xviii)	20	*Paullinia cupana*	R, H	C4	552
Mariannaea elegans, R.A. Samson	①	(xviii)	20	*Hancornia Speciosa*	B	C4	470
Marielliottia biseptata, R.A. Shoemaker	①	(iii)	21	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Marssonina sp.	①	(x)	18	*Calotropis gigantea*	L	C1	172
Massarina igniaria, A. Aptroot	①	(v)	34	*Taxus globosa*	O	C3	74
Massarina pandanicola, S. Tibpromma & K.D. Hyde	①	(v)	34	*Pandanus*	L	C1	559
Massarina rubi, P.A. Saccardo	①	(v)	34	*Barbilophozia hatcheri*	A	C5	310
Mastigobasidium intermedium, Golubev	②	(xi)	73	*Elymus farctus*	G	C6	315

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Mastodia tesselata, (Hooker f. & Harvey) Hooker f. & Harvey	①	(vi)	87	*Prasiola crispa*	A	C4	422
Meira sp.	②	(xxxii)	72	*Elymus farctus*	G	C6	315
Melampsora sp.	②	(xxix)	71	*Cassiope tetragona Saxifraga cepitosa Saxifraga oppositifolia Silene acaulis*	L	C5	121
Melampsora epitea, F. von. Thümen	②	(xxix)	71	*Cassiope tetragona Saxifraga cepitosa Saxifraga oppositifolia Silene acaulis*	L	C5	121
Melanconiella elegans, H. Voglmayr,W.M. Jaklitsch	①	(xviii)	14	*Paullinia cupana*	R, H	C4	552
Melanconiella spodiaea, (Tul. & C. Tul.) P.A. Saccardo	①	(xviii)	14	*Carpinus betulus*	C	C6	418
Melanconis alni, Tul.	①	(xviii)	14	*Alnus rubra*	L	C3	455
Melanconis carthusiana, Tul.	①	(xviii)	14	*Acer truncatum*	L	C1	76
Melanconis stilbostoma, (E.M. Fries) Tul. & C. Tul.	①	(xviii)	14	*Betula platyphylla, Quercus liaotungensis, Ulmus macrocarpa*	L, C	C1	1
Melanconis thelebola, (E.M. Fries) P.A. Saccardo	①	(xviii)	14	*Alnus glutinosa*	C	C6	418
Melanconium betulinum, J.C. Schmidt & Kunze	①	(xviii)	14	*Betula pendula, Betula pubescens,*	T	C6	298, 450
Melanconium sp.	①	(xviii)	14	*Betula*	S	C1	29, 76

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Melanospora sp.	①	(xviii)	20	*Withania somnifera*	S	C6	119
Melanospora fusispora, (Petch) Doguet	①	(xviii)	20	*Silene dioica*	L	C1	91
Melanotus subcuneiformis, (Murrill) Singer	②	(i)	1	*Theobroma gileri*	S	C4	101, 102
Melasmia hypophylla, (Berkeley & Ravenel) P.A. Saccardo	①	(x)	35	*Terminalia arjuna*	B, T	C1	393
Meliniomyces sp.	①	(x)	21	*Pseudorchis albida*	R	C6,	122
Meliniomyces variabilis, Hambl. & Sigler	①	(x)	21	*Betula papyrifera, Picea abies*	R	C6	130
Meliola sp.	①	(xviii)	59	*Cordemoya integrifolia*	L	C2	24
Memnoniella sp.	①	(xviii)	20	*Ceriops decandra, Plumeria rubra*	L	C1	18, 32
Menispora sp.	①	(xviii)	9	*Pseudorchis albida*	R	C6,	122
Merimbla sp.	①	(vi)	17	*Pseudotsuga menziesii*	R	C6,	373
Meripilus sp.	②	(i)	48	*Theobroma gileri*	S	C4	101, 102
Merismodes sp.	②	(i)	1	*Dipodium variegatum*	R	C7	122
Merismodes fasciculata, (Schwein.) Earle	②	(i)	1	*Dipodium variegatum*	R	C7	431
Merulius tremellosus, H.A. Schrader	②	(i)	48	*Pinus thunbergii*	R	C1	297
Metarhizium sp.	①	(xviii)	20	*Cathranthus roseus*	O	C3	122, 176,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Metarhizium acridum, (Driver & Milner) J.F. Bisch., S.A. Rehner & Humber	①	(xviii)	20	*Aster sphathulifolius, Aster tripolium, Phragmites australis, Puccinellia nipponica*	R	C7	359
Metarhizium anisopliae, (Metschn.) Sorokīn	①	(xviii)	20	*Panicum virgatum, Phaseolus vulgaris*	R	C1	125, 166, 199
Metarhizium robertsii, J.F. Bisch., S.A. Rehner & Humber	①	(xviii)	20	*Vigna unguiculata, Cucumis sativus*	R	C3	432
Metschnikowia australis, (Fell & I.L. Hunter) Mend. -Hagler, Hagler, Phaff & Tredick	①	(xxvii)	37	*Acrosiphonia arcta*	R	C5	309
Metschnikowia pulcherrima, Pitt & M.W. Mill.	①	(xxvii)	37	*Rosa canina, Prunus domestica*	F	C6	429
Metschnikowia sp.	①	(xxvii)	37	*Plocamium cartilagineum*	A	C6	49, 121
Meyerozyma caribbica, (Vaughan-Mart., Kurtzman, S.A. Mey. & E.B. O'Neill) Kurtzman & M. Suzuki	①	(xxvii)	37	*Adenocystis utricularis*	A	C5	309
Meyerozyma guilliermondii, (Wick.) Kurtzman & M. Suzuki	①	(xxvii)	37	*Alpinia officinarum*	M	C1	126
Meyerozyma sp.	①	(xxvii)	37	*P. heptaphyllum*	L	C4	272
Microascus desmosporus, M. Curzi	①	(xviii)	24	*Calotropis procera*	L	C3	117, 487

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Microascus nidicola, Massee & E.S. Salmon	①	(xviii)	24	*Silybum marianum*	L	C1	115
Microascus trigonosporus, C.W. Emmons & B.O. Dodge	①	(xviii)	24	*Altheae rosea*	L	C2	6
Microdiplodia hawaiiensis, P.W. Crous	①	(v)	6	*Acer truncatum*	L	C1	76, 150
Microdiplodia sp.	①	(v)	6	*Lycium intricatum*,	L	C2	78, 82, 150
Microdochium bolleyi, (R. Sprague) de Hoog & Herm. -Nijh.	①	(xviii)	47	*Fagonia critica*, *Triticum aestivum*	O	C2,	12, 82
Microdochium nivale, (E.M. Fries) Samuels & I.C. Hallett	①	(xviii)	47	*Triticum aestivum*	O	C6	311
Microdochium phragmitis, Sydow & P. Sydow	①	(xviii)	47	*Colobanthus quitensis*	L	C5	306
Microdochium sp.	①	(xviii)	47	*Chamaecyparis thyoides*, *Euterpe olerace*, *Porphyra* sp.	L	C4, C3	9, 49, 57, 78, 82, 87, 161
Micropera lunaspora, (Linder) A. Funk	①	(vii)	21	*Abeis grandis*	N	C3	
Microsphaeriopsis sp.	①	(v)	34	*Salix fragilis*, *Trachycarpus fortunei*	T	C6	13, 69, 150, 154, 591
Microsphaeropsis arundinis, (S. Ahmad) B. Sutton	①	(v)	34	*Ulmus macrocarpa*	S	C1	1, 76, 154
Microsphaeropsis olivacea, (Bonord.) (Corda) Höhnel	①	(v)	34	*Pilgerodendron uviferum*, *Trachycarpus fortunei*	S	C1, C3	158, 591

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Microsporum gypseum, (E. Bodin) Guiart & Grigoraki	①	(vi)	56	*Ziziphus nummularia*	L	C1	463
Minimelanolocus aquaticus, H.Y. Su, Udayanga & K.D. Hyde	①	(vii)	21	*Dysosma versipellis*	M	C1	572
Minimidochium sp.	①	(vii)	21	*Holcus lanatus*	G	C6	315
Mollisia cinera, (Batsch) P. Karsten	①	(x)	18	*Picea abies*	C	C6	201
Mollisia minutella, (P.A. Saccardo) Rehm	①	(x)	18	*Vaccinium vitis-idaea*	R	C6	81
Mollisia sp.	①	(x)	18	*Picea abies*	C	C6	201
Monacrosporium microscaphoides, Xing Z. Liu & B.S. Lu	①	(x)	18	*Panax ginseng*	R	C1	70
Monascus pilosus, K. Satô	①	(vi)	17	*Oryza*	N.S.	C6	430
Monascus purpureus, Piedallu	①	(vi)	17	*Zea mays*	C	C1	6
Monascus ruber, Tieghem, P. van.	①	(vi)	17	*Zea mays*, bamboo	C	C3	538, 539
Monilia fructigena, C.H. Persoon	①	(x)	18	*Altheae rosea*	L	C2	271
Moniliella sp.	②	(vii)	21	*Cordemoya integrifolia, Dysosma veitchii,*	L	C2	24, 125
Monilinia laxa, (Aderh. & Ruhland) Honey	①	(x)	18	*Larix sibirica*	L	C6, C6, C6	201
Moniliophthora sp.	②	(i)	1	*B. gracilis and B. eriopoda*	R	C3	169

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Moniliopsis anomala, Burgeff ex Currah, Smreciu & Hambl.	②	(i)	7	*Coeloglossum viride*	L	C3	101
Monoblepharella mexicana, Shanor	③	(xii)	25	*Submerged aquatic plant*	R	C6	285
Monochaetia karstenii, (P.A. Saccardo & P. Syd.) B. Sutton	①	(xviii)	47	*Shorea thumbuggaia*	L, S	C1	248
Monochaetia monochaeta, (Desmazières, J.B.H.J.) Allescher	①	(xviii)	47	*Q. robur*	U	C6	37
Monochaetia sp.	①	(xviii)	47	*T. baccata, Taxomyces andreanae, Rhododendron*	L, S	C6	125, 166
Monochaetinula sterculiae, Nag Raj	①	(xviii)	47	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4	334
Monochaetinula terminaliae, (Bat. & J.L. Bezerra) Muthumary, Abbas & B. Sutton	①	(xviii)	47	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4	334
Monocillium indicum, S.B. Saksena	①	(xviii)	20	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Monocillium sp.	①	(xviii)	20	*Q. robur*	U	C6	37, 155
Monodictys arctica, M.J. Day & Currah	①	(v)	21	*Saxifraga oppositifolia*	O W	C5	121
Monodictys castaneae, (Wallr.) S. Hughes	①	(v)	21	*Opuntia ficus-indica*	O W	C4	175, 318
Monodictys fluctuata, (Tandon & Bilgrami) M.B. Ellis	①	(v)	21	*Robinia pseudacacia*	O W	C6	141

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Monodictys putredinis, (Wallr.) S. Hughes	①	(v)	21	Algae	A	C6	359
Monodictys sp.	①	(v)	21	*Tripterygium wilfordii*	L	C1	31, 121
Monographella sp.	①	(xviii)	47	*Phleum pratense*	L	C6	47, 78, 179
Monosporascus cannonballus, Pollack & Uecker	①	(xviii)	21	Mediterranean tress, *Maresia nana*	R	C6	326
Monosporascus ibericus, Collado, Ant. González, Stchigel, Guarro & Peláez	①	(xviii)	21	*Lippia sidoides*	L	C4	82
Monosporascus sp.	①	(xviii)	21	*B. gracilis, Tiquilia hispidissima*	R	C3	82
Monotospora sp.	①	(vii)	21	*Cynodon dactylon*	S	C1	476
Mortierella alpina, Peyronel	⑧	(xx)	58	*Pinus thunbergii*	R	C1	297
Mortierella gamsii, A.A. Milko	⑧	(xx)	58	*Fragaria vesca*	R	C6	467
Mortierella gemmifera, M. Ellis	⑧	(xx)	58	*Eichhornia crassipes*	L, L	C1	382
Mortierella hyalina, (Harz) W. Gams	⑧	(xx)	58	*Osbeckia stellata*	R, S	C1	482
Mortierella parvispora, Linnem.	⑧	(xx)	58	*P. strictum*	O	C5	310
Mortierella sp.	⑧	(xx)	58	*Cymbidium* sp.	R	C1, C6	58, 122
Mortierella tsukubaensis, Ts. Watan.	⑧	(xx)	58	*Eichhornia crassipes*	L, L	C1	382
Mortierella verticillata, Linnemann	⑧	(xx)	58	*Fragaria vesca*	R	C6	467
Mortierella zonata, Linnemann	⑧	(xx)	58	*Fragaria vesca*	R	C6	467

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Mrakia. Sp.	②	(xix)	13	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C	C5	121
Mrakia blollopis, Thomas-Hall	②	(xix)	13	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C	C5	121
Mrakia frigida, (Fell, Statzell, I.L. Hunter & Phaff) Y. Yamada & Komag.	②	(xix)	13	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C	C5	121
Mucor circinelloides, P. van. Tieghem	⑦	(vii)	26	*Eichhornia crassipes*	L, L	C1	382
Mucor fuscus, M. Bainier				*Stachys aegyptiaca*	L, S	C2	589
Mucor fragilis, M. Bainier	⑦	(vii)	26	*Centaurea stoebe*	W	C3	103
Mucor hiemalis, C. Wehmer	⑦	(vii)	26	*Boswellia sacra*, *Vitis vinifera*	S, L	C1	37, 66, 148
Mucor irregularis, Stchigel, Cano, Guarro & E. Álvarez	⑦	(vii)	26	*Moringa stenopetala*	L	C2	381
Mucor kurssanovii, A. A. Milko; LA. Beliakova	⑦	(vii)	26	*Pinus thunbergii*	R	C1	297
Mucor moelleri, (Vuillemin) A. Lendner	⑦	(vii)	26	*Pinus thunbergii*	R	C1	297
Mucor mucedo, C. Linnaeus	⑦	(vii)	26	*Gaultheria fragrantissima*	T	C1	575
Mucor piriformes, A. Fischer	⑦	(vii)	26	*Gaultheria fragrantissima*	T	C1	575

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Mucor pusillus, W. Lindt	⑦	(vii)	26	*Kigelia pinnata*	L, B	C1	380, 539
Mucor racemosus, G. Fresenius	⑦	(vii)	26	*Eichhornia crassipes*	R, L	C1	66
Mucor rouxianus, Lendner	⑦	(vii)	26	*Taxus Chinensis*	B	C1	125, 166
Mucor saturninus, Hagem	⑦	(vii)	26	*Fragaria vesca*	R	C6	467
Mucor sp.	⑦	(vii)	26	*Tripterygium wilfordii, Vitis vinifera*	L	C1	31, 66
Mucor zonatus, A.A. Milko	⑦	(vii)	26	*Pinus thunbergii*	R	C1	297
Muscodor albus, Worapong, Strobel & W.M. Hess	①	(xxx)	47	*Cinnamomum zeglanicum, Eucryphia cordifolia, Guazuma ulmifolia, Oryza granulata*	W	C3	19, 39, 125, 158, , 178,
Muscodor camphora, Meshram, N. Kapoor, G. Chopra & S. Saxena	①	(xxx)	47	*Cinnamomum camphora*	S	C1	213
Muscodor cinnamomi, Suwannar., Bussaban, K.D. Hyde & Lumyong	①	(xxx)	47	*Cinnamomum bejolghota*	L	C1	270
Muscodor coffeanum, A.A.M. Gomes, Pinho & O.L. Pereira	①	(xxx)	47	*Coffea arabica*	S, L, F	C4	462
Muscodor crispans, A.M. Mitch., Strobel, W.M. Hess, Pérez-Vargas & Ezra	①	(xxx)	47	*Ananas ananassoides*	W	C4	158
Muscodor darjeelingensis, Meshram, N. Kapoor & S. Saxena	①	(xxx)	47	*Cinnamomum camphora*	T	C1	211

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Muscodor equiseti, Suwannar. & Lumyong	①	(xxx)	47	*Vellozia gigantea*	R, L	C4	477
Muscodor fengyangensis, Chu L. Zhang	①	(xxx)	47	*Actinidia chinensis*, *Pseudotaxus chienii*, *Abies beshanzuensis*	T, L	C1	218
Muscodor kashayum, Meshram, N. Kapoor & S. Saxena	①	(xxx)	47	*Aegle marmelos*	L	C1	223
Muscodor oryzae, Suwannar. & Lumyong	①	(xxx)	47	*Vellozia gigantea*	R, L	C4	477
Muscodor roseus, Worapong, Strobel & W.M. Hess	①	(xxx)	47	*Grevillea pteridifolia*	B, V, X	C3	396
Muscodor sp.	①	(xxx)	47	*Aegle marmelos*	L	C1	42
Muscodor suthepensis, Suwannar. & Lumyong	①	(xxx)	47	*Vellozia gigantea*	R, L	C4	477
Muscodor sutura, Kudalkar, Strobel & Riy. -Ul-Hass.	①	(xxx)	47	*Prestonia trifida*	T	C3	222
Muscodor tigerii, S. Saxena, Meshram & N. Kapoor	①	(xxx)	47	*Cinnamomum camphora*	S	C1	212
Muscodor vitigenus, Daisy, Strobel, Ezra & W.M. Hess	①	(xxx)	47	*Paullinia paullinioides*	L	C4	26, 125, 158
Muscodor yucatanensis, M.C. González, A.L. Anaya, Glenn & Hanlin	①	(xxx)	47	*Bursera simaruba*	L	C3	219

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Mycaureola dilseae, Maire & Chemin	②	(i)	1	*Dilsea carnosa*	A	C6	422
Mycena sp.	②	(i)	1	*Dactylis glomerata*	G	C6	315
Mycoarthris corallina, L. Marvanová; P.J. Fisher	①	(iii)	21	*Ulva intestinalis*	A	C5	121
Mycoarthris sp.	①	(iii)	21	*Arabidopsis thaliana*	L, S, Z	C6	58
Mycocentrospora cantuariensis, (E.S. Salmon & Wormald) Deighton	①	(v)	34	*Colobanthus quitensis*	L	C5	306
Mycocentrospora sp.	①	(v)	34	*Saussurea involucrata*	R	C1	551
Mycoenterolobium sp.	①	(vii)	21	*Pinus massoniana*	N	C1	558
Mycogone sp.	②	(xxv)	86	*Prunus africana*	L, S, B, R	C2	468
Mycoleptodiscus atromaculans, Bills & Polishook	①	(xviii)	21	*Chamaecyparis thyoides*	L	C3	9
Mycoleptodiscus endophytica, S. Tibpromma, K.D. Hyde, J.D. Bhat, P.E. Mortimer, J. Xu, I. Promputtha, M. Doilom, J.B. Yang, A.M.C. Tang, S.C. Karunarathna	①	(xviii)	21	*Freycinetia*	L	C1	559
Mycoleptodiscus indicus, (V.P. Sahni) B. Sutton	①	(xviii)	21	*Alpinia officinarum*	M	C1	126
Mycoleptodiscus sp.	①	(xviii)	21	*Alpinia officinarum, Euterpe olerace*	L, M	C4, C1	60, 76

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Mycoleptodiscus terrestris, (Gerdemann) S.A. Ostazeski	①	(xviii)	21	*Myriophyllum spicatum*	S	C3	186, 385
Mycopappus, Redhead & G.P. White	①	(x)	18	*Cassiope tetragona Saxifraga cepitosa Saxifraga oppositifolia Silene acaulis*	L	C5	121
Mycosphaerella apophlaeae, J. Kohlmeyer	①	(v)	8	*Apophlaea* sp.	A	C7	422
Mycosphaerella ascophylli, Cotton	①	(v)	8	*Ascophyllum nodosum*	A	C3	422
Mycosphaerella aurantia, A. Maxwell	①	(v)	8	*Fraxinus ornus*	L	C3	589
Mycosphaerella coffeicola, (Cooke) J.A. Stev. & Wellman	①	(v)	8	*Gossypium hirsutum*	L, F	C3	47
Mycosphaerella ellipsoidea, P.W. Crous & M.J. Wingf.	①	(v)	8	*Eucalyptus* sp.	L	C2	337
Mycosphaerella endophytica, P.W. Crous & H. Sm. ter	①	(v)	8	*Eucalyptus* sp.	L	C2	337
Mycosphaerella fragariae, (Tulasne & C. Tulasne) Lindau	①	(v)	8	*Hemerocallis flava*	Z	C3	542
Mycosphaerella graminicola, (Fuckel L.) J. Schröt.	①	(v)	8	*Cathranthus roseus*	O	C7	358
Mycosphaerella irregulariramosa, P.W. Crous & M.J. Wingf.	①	(v)	8	*Pinus ponderosa*	L	C3	413

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Mycosphaerella laricina, (R. Hartig) Mig.	①	(v)	8	*Citrus limon*	L	C6	343
Mycosphaerella marksii, Carnegie & Keane 1994	①	(v)	8	*Eucalyptus* sp.	L	C2	337
Mycosphaerella pseudovespa, Carnegie	①	(v)	8	*Coffea arabica*	C, L	C3	454
Mycosphaerella punctiformis, (Persoon) Starbäck	①	(v)	8	*Tilia cordata*	L	C6	201
Mycosphaerella sp.	①	(v)	8	*Alnus*, *E. grandis*, *Gossypium hirsutum*, *Heterosmilax japonica*, *Picea glauca*, *Pseudorchis albida*	L, S, R	C6, C3, C2, C3	29, 56, 122
Mycosphaerella stramenti, P.W. Crous & Alfenas	①	(v)	8	*Vellozia gigantea*	R, L	C4	477
Mycosphaerella thailandica, P.W. Crous, Himaman & M.J. Wingf.	①	(v)	8	*Citrus limon*	L	C6	343
Mycosphaerella vietnamensis, P.A. Barber & T.I. Burgess	①	(v)	8	*Eucalyptus* sp.	L	C2	337
Myelosperma tumidum, Sydow & P. Sydow	①	(xviii)	47	*Livistona chinensis*	L	C1	379
Myriogenospora atramentosa, (Berkeley & M.A. Curtis) Diehl	①	(xviii)	20	Dallisgrass	G	C3	153
Myrmecridium sp.	①	(xviii)	21	*Bauhinia forficata*	Z	C1	122

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Myrmecridium schulzeri, (P.A. Saccardo) Arzanlou, W. Gams & P.W. Crous	①	(xviii)	21	*Holcoglossum*	R	C4	316
Myrothecium cinctum, (A.C.J. Corda) P.A. Saccardo	①	(xviii)	20	*Terminalia arjuna*	B, T	C1	78
Myrothecium gramineum, Libert, M.A.	①	(xviii)	20	*Glycine max*	L	C4	322
Myrothecium inundatum, Sturm	①	(xviii)	20	*Glycine max*	L	C4	129
Myrothecium melanosporum	①	(xviii)	20	Grass	U	C3	78
Myrothecium roridum, H.J. Tode	①	(xviii)	20	*Altheae rosea*	L	C2	91
Myrothecium sp.	①	(xviii)	20	*Canarium ovatum, Cordemoya integrifolia*	L, S	C2, C1	24, 60, 69, 129
Myrothecium verrucaria, (Alb. & Schwein.) Ditmar	①	(xviii)	20	*Silybum marianum*	L, S, R, H	C3	78, 115
Myxocyclus polycystis, (Berkeley & Broome) P.A. Saccardo	①	(v)	34	*Betula platyphyll*	L, T	C1	1
Myxosporium carneum, M.A. ex Libert, F. von. Thümen	①	(vii)	21	*Acer pseudoplatanus*	C	C6	418
Myxotrichum chartarum, Kunze	①	(iii)	21	*Callicarpa tomentosa*	B, S, L	C1	396
Myxotrichum stipitatum, (Lindf.) G.F. Orr & Kuehn	①	(iii)	21	*Pinus thunbergii*	R	C6	297
Naemacyclus sp.	①	(x)	35	*Pinus attenuata, P. lambertiana*	N	C3	268

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Naemacyclus minor, H. Butin	①	(x)	35	*Pinus attenuate*, *Pinus halepensis*,	N	C3	83
Nectria cinnabarina, (Tode) E.M. Fries	①	(xviii)	20	*Mentha piperita*	S, L	C6	6, 88
Nectria coccinea, (Persoon) E.M. Fries	①	(xviii)	20	Birch, Beech	X	C6	201
Nectria fuckeliana, C. Booth	①	(xviii)	20	*Vitis vinifera*	L, T, F	C6	66
Nectria haematococca, Berkeley & Broome	①	(xviii)	20	*Theobroma cacao*, *Panax ginseng*	C	C4, C1	33, 86, 143, 246
Nectria lugdunensis, J. Webster	①	(xviii)	20	Submerged aquatic plant	R	C6	285
Nectria mauritiicola, (P. Hennings) Seifert & Samuels	①	(xviii)	20	Soybean, *Vitex negundo*	L	C4	322
Nectria pseudotrichia, Berkeley & M.A. Curtis	①	(xviii)	20	*Caesalpinia echinata*	S B	C4	461
Nectria ramulariae, (Wollenw.) E. Müll.	①	(xviii)	20	*Vitis vinifera*	L, T, F	C6	66
Nectria rigidiuscula, M.J. Berkeley; C.E. Broome.	①	(xviii)	20	*Annona squamosa*	T	C1	363
Nectria sp.	①	(xviii)	20	*Fuschia hybrida*	S	C4	88, 98, 102, 122, 145
Nemania aenea, (Nitschke) Pouzar	①	(xviii)	47	*Taraxacum coreanum*	L, R	C4, C1	95, 103
Nemania bipapillata, (Berkeley & M.A. Curtis) Pouzar	①	(xviii)	47	*Dendrobium*, *Diospyros crassiflora*	R	C1	267
Nemania diffusa, (Sowerby) S.F. Gray	①	(xviii)	47	*Dendrobium*	R	C1, C6	267

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Nemania serpens, (Persoon) S.F. Gray	①	(xviii)	47	*Silybum marianum, Fraxinus ornus*	S	C1	115, 589
Nemania sp.	①	(xviii)	47	*Changnienia amoena, Phaseolus vulgaris*	L, M	C3	122, 136, 159
Neocosmospora endophytica, Polishook, Bills & Rossman	①	(xviii)	20	*Chamaecyparis thyoides*	L	C3	9
Neodeightonia subglobosa, C. Booth	①	(v)	6	*Fragaria x ananassa*	F	C1	363
Neofabraea alba, (E.J. Guthrie) G.J.M. Verkley	①	(x)	18	*Elymus farctus, Holcus lanatus, Fraxinus ornus*	G	C6	93, 589
Neofusicoccum algeriense, Berr. -Tebb. & A.J.L. Phillips	①	(v)	6	*Persea americana*	C	C3	367
Neofusicoccum andinum, (Mohali, Slippers & M.J. Wingf.) Mohali, Slippers & M.J. Wingf.	①	(v)	6	*Persea americana*	C	C3	367
Neofusicoccum australe, (Slippers, P.W. Crous & M.J. Wingf.) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Acacia spp., Eucalyptus, Syzygium, Widdringtonia,*	C	C7	89
Neofusicoccum batangarum, Begoude, Jol. Roux & Slippers	①	(v)	6	*Eugenia aff. bimarginata, Myrciaria floribunda,* and *Alchornea castaneifolia*	L	C3	443
Neofusicoccum cryptoaustrale, Pavlic, Maleme, Slippers & M.J. Wingfield	①	(v)	6	*Artemisia thuscula*	S	C6	569

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Neofusicoccum eucalypticola, (Slippers, P.W. Crous & M.J. Wingf.) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Eucalyptus* spp.	C	C2	89
Neofusicoccum eucalyptorum, (P.W. Crous, H. Sm. ter & M.J. Wingf.) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Eucalyptus* spp.	C	C4	89
Neofusicoccum kwambonambiense, Pavlic, Slippers & M.J. Wingf.	①	(v)	6	Mangrove	C	C2	409
Neofusicoccum lumnitzerae, J.A. Osorio, Jol. Roux & Z.W. de Beer	①	(v)	6	*Lumnitzera racemosa*	C	C2	409
Neofusicoccum luteum, (Pennycook & Samuels) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Eucalyptus* spp.	C	C4	89
Neofusicoccum macroclavatum, (T.I. Burgess, P.A. Barber & G.E. Hardy) T.I. Burgess, P.A. Barber & G.E. Hardy	①	(v)	6	*Eucalyptus* spp.	C	C7	427
Neofusicoccum mangiferae, (Sydow & P. Sydow) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Eucalyptus* spp.	C	C1	89
Neofusicoccum mangroviorum, J.A. Osorio, Jol. Roux & Z.W. de Beer	①	(v)	6	*A. marina, B. gymnorrhiza, L. racemosa, R. mucronata*	C	C4	409

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Neofusicoccum parvum, (Pennycook & Samuels) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Acacia*, *Araucaria Eucalyptus, Glycine max, Mangifera indica, Populus, Tibouchina*	L	C7, C4, C7, C2	89, 129
Neofusicoccum protearum, (Denman & P.W. Crous) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Acacia karroo*	C	C2	460
Neofusicoccum ribis, (Slippers, P.W. Crous & M.J. Wingf.) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Eucalyptus* spp.	C	C4	89, 90
Neofusicoccum sp.	①	(v)	6	Soybean	L	C4	202, 322
Neofusicoccum umdonicola, Pavlic, Slippers & M.J. Wingf.	①	(v)	6	Mangrove	C	C2	409
Neofusicoccum viticlavatum, (Van Niekerk & P.W. Crous) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Acacia karroo*	C	C2	460
Neofusicoccum vitifusiforme, (Van Niekerk & P.W. Crous) P.W. Crous, Slippers & A.J.L. Phillips	①	(v)	6	*Acacia karroo*	C	C2	89
Neohendersonia kickxii, (G.D. Westendorp) B. Sutton & Pollack	①	(v)	34	*Fagus sylvatica*	T	C6	201
Neonectria macroconidialis, (Samuels & Brayford) Seifert	①	(xviii)	20	*Cephalotaxus hainanensis*	W	C1	489

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Neonectria macrodidyma, Halleen, Schroers & P.W. Crous	①	(xviii)	20	*Chenopodium quinoa*	R	C6	386
Neonectria radicicola, (Gerlach & L. Nilsson) Mantiri & Samuels	①	(xviii)	20	*Panax ginseng, Cajanus cajan*	L, S	C1	541
Neonectria sp.	①	(xviii)	20	*Paris polyphylla*	M	C1	98, 122
Neopestalotiopsis alpapicalis, Vinit Kumar, Ratchadawan Cheewangkoon, Eleni Gentekaki, Eleni Gentekaki, Kevin D Hyde	①	(xviii)	66	*Rhizophora mucronata*	Ste	C1	557
Neopestalotiopsis clavispora, SSN Maharachchikumbura, KD Hyde; Crous, PW.	①	(xviii)	66	*Rhizophora mucronata*	L	C1	508
Neopestalotiopsis egyptiaca, A.M. Ismail, G. Perrone & PW. Crous	①	(xviii)	66	*Rhizophora mucronata*	L	C1	508
Neopestalotiopsis foedans, (P.A. Saccardo & Ellis) Maharachch., K.D. Hyde & P.W. Crous	①	(xviii)	66	*Persea americana*	C	C3	367
Neopestalotiopsis surinamensis, Maharachch., K.D. Hyde & P.W. Crous	①	(xviii)	66	*Vellozia gigantea*	R, L	C4	477
Neoplaconema gloeosporioides	①	(vii)	21	*Taraxacum coreanum*	L, R	C1	294
Neoplaconema napellum	①	(vii)	21	*Hopea hainanensis*	L	C1	593

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Neoplatysporoides aloicola, Crous & M.J. Wingfield	①	(v)	34	*Artemisia thuscula*	S	C6	569
Neosartorya aureola, (Fennell & Raper) Malloch & Cain	①	(vi)	17	*Aster sphathulifolius, Aster tripolium, Phragmites australis, Puccinellia nipponica*	R	C1	336
Neosartorya fischeri, (Wehmer) Malloch & Cain	①	(vi)	17	*Macleaya cordata*	R	C1	65
Neosartorya hiratsukae, Udagawa, Tsub. & Y. Horie	①	(vi)	17	*Monarda citriodora*	L, R, Z	C1	360
Neosartorya sp.	①	(vi)	17	*Euterpe olerace*	L	C4	189
Neoscytalidium dimidiatum, (Penz.) P.W. Crous & Slippers	①	(v)	6	*Hyoscyamus muticus*	S	C1	399
Neotyphodium aotearoae, C.D. Moon, C.O. Miles & Schardl	①	(xviii)	20	*Echinopogon ovatus*	G	C3	171
Neotyphodium australiense, C.D. Moon & Schardl	①	(xviii)	20	*Echinopogon ovatus*	G	C3	171
Neotyphodium chisosum, (J.F. White & Morgan-Jones) Glenn, C.W. Bacon & Hanlin	①	(xviii)	20	*Achnatherum sibiricum*	G	C1	171

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Neotyphodium coenophialum, (Morgan-Jones & W. Gams) Glenn, C.W. Bacon & Hanlin	①	(xviii)	20	*F. arundinacea, L. perenne, Lolium arundinaceum*	G	C3	6, 70, 105, 153, 171, 187
Neotyphodium gansuense, C.J. Li & Nan	①	(xviii)	20	*Achnatherum sibiricum*	G	C1	171, 541
Neotyphodium huerfanum, (J.F. White, G.T. Cole & Morgan-Jones) Glenn, C.W. Bacon & Hanlin	①	(xviii)	20	*Festuca arizonica*	G	C3	171
Neotyphodium lolii, (Latch, M.J. Chr. & Samuels) Glenn, C.W. Bacon & Hanlin	①	(xviii)	20	*F. arundinacea, Lolium perenne*	G	C7	16, 159, 171, 187
Neotyphodium melicicola, C.D. Moon & Schardl	①	(xviii)	20	*Poa huecu*	G	C3	171
Neotyphodium occultans, C.D. Moon, B. Scott & M.J. Chr.	①	(xviii)	20	*Lolium multiflorum*	G	C1	142, 171, 175, 176,
Neotyphodium sibiricum, X. Zhang & Y.B. Gao	①	(xviii)	20	*Achnatherum sibiricum*	G	C1	541
Neotyphodium siegelii, K.D. Craven, Leuchtmann, A. & Schardl	①	(xviii)	20	*Lolium* sp.	G	C3	153, 171,
Neotyphodium sinofestucae, Y.G. Chen, Y.L. Ji & Z.W. Wang	①	(xviii)	20	*Festuca parvigluma*	G	C1	392
Neotyphodium sp.	①	(xviii)	20	*Lolium temulentum, Festuca arizonica*	G	C3	16, 25, 160

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Neotyphodium starrii, (J.F. White & Morgan-Jones) Glenn, C.W. Bacon & Hanlin	①	(xviii)	20	*Bromus anomalus*	G	C3	171,
Neotyphodium tembladerae, Cabral & J.F. White	①	(xviii)	20	*F. arizonica*	G	C3	153, 171,
Neotyphodium typhinum, (Morgan-Jones & W. Gams) Glenn, C.W. Bacon & Hanlin	①	(xviii)	20	*Poa ampla*	G	C3	171
Neotyphodium uncinatum, (W. Gams, Petrini & D. Schmidt) Glenn, C.W. Bacon & Hanlin	①	(xviii)	20	*F. pratensis*	G	C3	153, 171, 187
Neurospora crassa, Shear & B.O. Dodge	①	(xviii)	39	*Nothapodytes nimmoniana, Camptotheca acuminate*	H	C3	6, 145, 180,
Neurospora pannonica, J.C. Krug & R.S. Khan	①	(xviii)	39	*Saraca asoca*	S, L, B	C1	377
Neurospora sp.	①	(xviii)	39	*Acer ginnala*	B, X, T	C1	82, 125, 145
Nigrograna mackinnonii, (Borelli) J. de Gruyter, G.J.M. Verkley & P.W. Crous	①	(v)	34	*Guazuma ulmifolia*	S	C4	217
Nigrospora musae, McLennan & Hoëtte	①	(xviii)	47	*Musa acuminata*	L	C1	13
Nigrospora oryzae, (Berkeley & Broome) Petch	①	(xviii)	47	*E. nitens, E. grandis, Glycine max, Gossypium hirsutum, Kigelia pinnata* ,	S, X, L	C2, C1, C3	13, 17, 52, 55, 66, 67,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				Musa acuminata, Tylophora indica			74, 76, 77, 78, 87, 103, 129, 156, 158,
Nigrospora sacchari, (Spegazzini, C.) E.W. Mason	①	(xviii)	47	*B. phoenicea*	B	C1	396
Nigrospora sp.	①	(xviii)	47	*Brassica napus, Canarium ovatum, Cordemoya integrifolia, Dendrobium, Gossypium hirsutum, Halodule uninervis, Opuntia, Tectona grandis, Hevea brasiliensis*	R, S, L	C4, C1, C2, C1, C3	24, 29, 30, 32, 57, 60, 87, 90, 117, 122, 125, 150, 159, 167, 208
Nigrospora sphaerica, (P.A. Saccardo) E.W. Mason	①	(xviii)	47	*Chamaecyparis thyoides, Euterpe oleracea, Kigelia pinnata, Gossypium hirsutum, Millingtonia hortensis, Tabebuia* sp.,	L, T	C4, C1, C3, C2, C3	7, 3, 9, 12, 20, 37, 50, 55, 62, 73, 90, 124, 125, 144, 145, 384
Nodulisporium gregarium, (Berkeley & M.A. Curtis) J.A. Mey.	①	(xviii)	47	*Coffea arabica*	L	C6	77, 132, 154
Nodulisporium hyalosporum, S.C. Agarwal & J.K. Misra	①	(xviii)	47	*Punctelia borreri*	O	C1	109

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Nodulisporium sp.	①	(xviii)	47	*Bontia daphnoides, Catostemma fragrans, Carapa guianensis, Chlorocardium rodiei, Chamaecyparis thyoide, Chamaecyparis lawsoniana, Dipterocarpus tuberculatus, Erica arboreal, E. nitens, E. grandis, Euterpe oleracea, Jacaranda* sp., *Trachycarpus fortune, Licuala ramsayi, R. apiculata*	S, X, L, R, F, T	C4, C3, C1, C3, C3, C4, C2, C6, C6, C7	9, 10, 20, 22, 37, 55, 57, 66, 90, 95, 109, 122, 125, 158, 159, 161, 165, 200, 304, 591
Nodulisporium sylviforme, Deighton	①	(xviii)	47	*T. cuspidata*	B	C1	239
Ochroconis cf. constricta, G.S. de Hoog; J.A. von. Arx	①	(v)	57	*Dysosma versipellis*	L	C1	572
Ochroconis gallopava, (W.B. Cooke) de Hoog	①	(v)	57	*Alpinia malaccensis, Hornstedtia conica*	O	C1	420
Ochroconis sp. Arx.	①	(v)	57	*Alpinia malaccensis, Horstendia conica*	R, L	C1	60
Oculimacula, P.W. Crous & W. Gams	①	(x)	18	*D. antarctica*	L	C5	121
Oedocephalum sp.	①	(xv)	31	*Q. robur*	U	C6	37
Oidiodendron sp.	①	(iii)	21	*E. citriodora*	L	C6	122
Oidiodendron cerealis, (Thümen) G.L. Barron	①	(iii)	21	*Armoracia rusticana*	R	C6	571
Oidiodendron clamydosporum	①	(iii)	21	*Pseudorchis albida*	R	C1	415

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Oidiodendron maius, G.L. Barron	①	(iii)	21	*Rhododendron ovatum*	R	C1	566
Olpidium sp.	③	(iv)	11	*Epipogium aphyllum*	M	C6, C1	122
Ophioceras leptosporum, (S.H. Iqbal) J. Walker	①	(xviii)	23	*Terminalia catappa*	F, Z, S, B, R, R, B	C2	478
Ophioceras sp.	①	(xviii)	23	*Cin. insularimontanum*	L	C3	56, 60
Ophioceras tenuisporum, Shearer, J.L. Crane & W. Chen	①	(xviii)	23	Medicinal herbs of Rutaceae and Lauraceae	L	C1	452
Ophiognomonia sp.	①	(xviii)	14	Soybean	L	C4	322
Ophiosphaerella herpotricha, (E.M. Fries) J. Walker	①	(v)	34	*Gutierrezia sarothrae*	R	C3	283
Ophiosphaerella sp.	①	(v)	34	*Triticum aestivum*	O	C6	159
Ophiostoma floccosum, Math. -Käärik	①	(xviii)	28	*Pinus thunbergii*	V	C1	6
Ophiostoma piceae, (Münch) Sydow & P. Sydow	①	(xviii)	28	*Vitis vinifera*	L, T, F	C6	6, 66
Ophiostoma stenoceras, (Robak) Nannf. 1934	①	(xviii)	28	*Quercus petraea*	L, S	C6	6
Ophiovalsa betulae, (Tul. & C. Tul.) F. Petrak	①	(xviii)	14	*Betula pendula*	T	C6	201
Ophiovalsa sp.	①	(xviii)	14	*Alnus*	L	C6	29, 201,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Ophiovalsa suffusa, (E.M. Fries) F. Petrak	①	(xviii)	14	*Alnus glutinosa*	T	C6	201
Orbicula parientina, (Schrader) S. Hughes	①	(xv)	31	*Ulex europaeus.*	S	C6	184
Oudemansiella mucida, (Schrad.) (Corda) Höhnel 1910	②	(i)	1	*Fagus sylvatica*	S	C6	101
Ovulariopsis sp.	①	(x)	16	Chinese plant	L	C1	172
Oxydothis poliothea, H. Sydow,	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Oxydothis sp.	①	(xviii)	47	*Trachycarpus fortunei*	L	C1	591
Oxyporus latemarginatus, (Durieu & J.P.F.C. Montagne) Donk	②	(i)	19	*Triticum aestivum*	O	C6	311
Oxyporus sp.	②	(i)	19	*T. cacao*	S, F	C4, C2	101, 102
Ozonium sp.	②	(i)	1	*T. chinensis var. mairei*	B	C1	125, 166
Paecilomyces fumosoroseus, A.H.HS. Brown, G. Smith.	①	(vi)	17	Coffee	Z	C6	106
Paecilomyces javanicus, G. Bainier	①	(vi)	17	Coffee	L	C3	103, 106
Paecilomyces anatarcticus, P.D. Bridge, M.S. Clark, D.A. Pearce	①	(vi)	17	*Monostroma hariotii*	A	C5	309
Paecilomyces carneus, A.H.S. Brown & G. Smith	①	(vi)	17	*Holarrhena antidysentrica*, *Jatropha curcas*, *Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Paecilomyces farinosus, A.H.S. Brown, G. Smith	①	(vi)	17	*Acer saccharum, C. caroliniana*	L, L, B	C3	106, 170
Paecilomyces formosus, (Sakaguchi, May. Inoue & Tada) Houbraken & Samson	①	(vi)	17	*L. littorea*	S	C1	577
Paecilomyces inflatus, J.W. Carmichael	①	(vi)	17	*Capsicum annuum*	L, S, R	C1	339
Paecilomyces lilacinus, R.A. Samson	①	(vi)	17	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4	64
Paecilomyces marquandii, S.J. Hughes	①	(vi)	17	*Dysosma pleiantha*	O	C1	312
Paecilomyces parvisporus, Y.F. Han & Z.Q. Liang	①	(vi)	17	*Paullinia cupana*	R, H		552
Paecilomyces sinensis, Q.T. Chen, S.X. Xiao, Z.Y. Shi	①	(vi)	17	*Espeletia*	L	C1	355
Paecilomyces sp.	①	(vi)	17	*Avicennia marina, A. officinalis, Canarium ovatum, Dalbergia oliveri, Cymodocea* sp., *Musa accuminata*	L, S, M	C1, C1, C3	18, 12, 21, 25, 106, 165, 117
Paecilomyces tenuis, Y.F. Han & Z.Q. Liang	①	(vi)	17	*Viola odorata*	L, Z	C1	451
Paecilomyces variabilis, G.L. Barron	①	(vi)	17	*Osbeckia chinensis*	R, S	C1	482
Paecilomyces variotii, G. Bainier	①	(vi)	17	*Saraca asoca*	S, L, B	C6	300
Palassora loranthi	⑥	(vii)	21	*Citrus limon*	R	C6, C1	343

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pallidocercospora sp.	①	(v)	8	*Vellozia gigantea*	R, L	C4	478
Panaeolus sp.	②	(i)	1	*Gastrodia confusa*	R	C1	122
Papulaspora immersa, J.W. Hotson	①	(xviii)	21	*Butea monosperma*	R	C1	51
Papulospora sp.	①	(xviii)	21	*Cordemoya integrifolia*	L	C2,	24, 12, 51, 41, 166
Paracoccidioides brasiliensis, F.P. Almeida	①	(vi)	56	*Cathranthus roseus*	O	C7	358
Paraconiothyrium babiogorense, J.	①	(v)	34	*Huperzia selago*	L	C6	554
Budziszewska							
Paraconiothyrium brasiliense, G.J.M. Verkley	①	(v)	34	*Millingtoniahortensis*, *Tabebuia* sp.	L	C1	1, 76, 116
Paraconiothyrium fungicola, G.J.M. Verkley & Wicklow	①	(v)	34	N.S.		C6	474
Paraconiothyrium hawaiiense, U. Damm; G.J.M. Verkley; P.W. Crous	①	(v)	34	*R. stylosa* and *R. mucronate*	S	C1	509
Paraconiothyrium sp.	①	(v)	34	*Dendrobium*, *Potentilla fulgens*	L, S, R, H	C1, C1	8, 31, 22, 164
Paraconiothyrium sporulosum, G.J.M. Verkley	①	(v)	34	*P. perrottettii*, *Tapirira guianensis*	L, S	C4	334

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Paraconiothyrium variabile, Riccioni, Damm, G.J.M. Verkley & P.W. Crous	①	(v)	34	*Cephalotaxus harringtonii*	N	C1	164
Paradendryphiella arenariae, Woudenberg & P.W. Crous	①	(v)	34	*Salicornia europaea*	S	C1	434
Paraphaeosphaeria arecacearum, GJM Verkley, M. Göker, J.B. Stielow.	①	(v)	34	*Paullinia cupana*	R, H	C4	552
Paraphaeosphaeria michotii, O. Eriksson	①	(v)	34	*Phleum pratense*	L	C6	47
Paraphaeosphaeria nolinae, A.W. Ramaley	①	(v)	34	*Artemisia annua*	S		568
Paraphaeosphaeria parmeliae, P.W. Crous & T. Trakunyingcharoen	①	(v)	34	*Vellozia gigantea*	R, L	C4	477
Paraphaeosphaeria pilleata, Kohlmeyer, Volkmann-Kohlmeyer & O.E. Eriksson	①	(v)	34	*Vitis labrusca*	L	C1	481
Paraphaeosphaeria sp.	①	(v)	34	*B. gracilis*	R	C3	69, 169
Paraphoma chrysanthemicola, J. de Gruyter, Aveskamp & G.J.M. Verkley	①	(v)	34	*Panax ginseng*	R	C1	143
Paraphoma sp., Morgan-Jones & J.F. White	①	(v)	34	*Nama carnosum*	R	C3	50
Parapleurotheciopsis inaequiseptata, (Matsushima) P.M. Kirk	①	(xviii)	47	*Paullinia cupana*	R, H	C4	552
Parapleurotheciopsis sp.	①	(xviii)	47	Tropical plants	L	C3	56

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Parasarcopodium ceratocaryi, Melnik, S.J. Lee & P.W. Crous	①	(vii)	21	Grass	U	C3	417
Parastagonospora avenae, W. Quaedvlieg, G.J.M. Verkley & P.W. Crou	①	(v)	34	*Triticum aestivum*	O	C6	311
Passalora eucalypti, P.W. Crous & U. Braun	①	(v)	34	*A. marina*	L	C1	590
Passalora fulva, P.W. Crous; U. Braun	①	(v)	34	*Panax ginseng*	R	C1	143
Pellionella aff. deformans, Penzig, A.J.O.; P.A. Saccardo	①	(vii)	21	*Eucalyptus globus*		C4	305
Penicilliopsis clavariiformis, H. Solms	①	(vi)	17	*Diospyros crassiflora*	O	C3, C6	273
Penicilliopsis lilacinus	①	(vi)	17	*Camellia oleifera*	L, B	C1	507
Penicilliopsis sinensis	①	(vi)	17	*Camellia oleifera*	L	C1	507
Penicilliopsis varioti	①	(vi)	17	*Camellia oleifera*	L	C1	507
Penicillium aculeatum, Raper & Fennell	①	(vi)	17	*Silybum marianum, Phragmites australis*	L	C1	115, 146
Penicillium adametzii, K.M. Zalessky	①	(vi)	17	*Pinus thunbergii*	R	C6	297
Penicillium afellutanum	①	(vi)	17	*Eleusine coracana*	H, R	C3	400
Penicillium atramentosum, C. Thom	①	(vi)	17	*Phragmites australis*	R	C1, C1	146

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium aurantiogriseum, R.P. Dierckx	①	(vi)	17	*Corylus avellana, Boswellia sacra*	S, L	C1	83, 175
Penicillium baarnense, J.F.H. Beyma	①	(vi)	17	*Curcuma zedoaria*	S	C1	220
Penicillium bilaiae, T.V. Chalabuda	①	(vi)	17	Date palm	R	C2	510
Penicillium biourgeianum, K.M. Zalessky	①	(vi)	17	*Plocamium cartilagineum*	W	C6	49, 103
Penicillium brasilianum, A.C. Batista	①	(vi)	17	*Melia azedarach*	R B	C1	1, 25, 14, 31, 52, 158
Penicillium brevicompactum, R.P. Dierckx	①	(vi)	17	*Phaseolus vulgaris, Hevea brasiliensis*	L	C4	103, 167,
Penicillium brevistipitatum, L. Wang & W.Y. Zhuang	①	(vi)	17	*Phragmites australis*	R	C6	146
Penicillium brocae, S.W. Peterson, Jeann. Pérez, F.E. Vega & Infante	①	(vi)	17	*Coffea arabica*	L, H	C1	355
Penicillium camemberti, C. Thom	①	(vi)	17	*Eleusine coracana*	W	C3	78
Penicillium canescens, Sopp, O.J.	①	(vi)	17	*Polygonatum cyrtonema, Pinus thunbergii*	R	C1	74, 93
Penicillium cecidicola, Seifert, Hoekstra & Frisvad	①	(vi)	17	*Aster sphathulifolius, Aster tripolium, Phragmites australis, Puccinellia nipponica*	R	C1	336
Penicillium charlesii, G. Smith	①	(vi)	17		R	C6	300

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium chermesinum, Biourge, P.	①	(vi)	17	*Terminalia catappa*	F, Z, S, B, R, R, B	C2	478
Penicillium chrysogenum, C. Thom	①	(vi)	17	*Avicennia marina, Cistanche deserticola, Phragmites australis*	R	C1, C6	84, 125, 146, 148
Penicillium citreonigrum, Batista	①	(vi)	17	*Pinus thunbergii*	R	C1	78
Penicillium citrinum, C. Thom	①	(vi)	17	*Avicennia marina, Ixeris repen, Gossypium hirsutum*	R, B	C1, C3	84, 265, 539
Penicillium coffeae, S.W. Peterson, F.E. Vega, Posada & Nagai,	①	(vi)	17	*Coffea arabica*	R, L	C1	146
Penicillium commune, C. Thom	①	(vi)	17	*Ulva intestinalis*	A	C5	309
Penicillium concentricum, Samson, Stolk & Hadlok	①	(vi)	17	*Phragmites australis*	R	C6	177
Penicillium coprophilum, Seifert & Samson	①	(vi)	17	*Phragmites australis*	R	C6	146
Penicillium copticola, Houbraken, Frisvad & Samson	①	(vi)	17	*Silybum marianum, Cannabis sativa*	L, R, S, H	C3	115
Penicillium cordubense, C. Ramírez & A.T. Martínez	①	(vi)	17	*Panax notoginseng*	R	C1	500
Penicillium corylophilum, Dierckx	①	(vi)	17	*Shorea thumbuggaia*	L, S	C1	91
Penicillium crustosum, C. Thom	①	(vi)	17	*Capsicum annuum*	L, S, R	C1	339

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium daleae, Zalessky, K.M.	①	(vi)	17	*Pinus thunbergii*	R	C1	297
Penicillium decumbens, C. Thom	①	(vi)	17	*Devaleraea ramentacea*	A	C3	305
Penicillium dendriticum, Pitt, J.I.	①	(vi)	17	*Eucalyptus globulus*	S	C4	305
Penicillium digitatum, (Persoon) Saccardo	①	(vi)	17	*Avicennia marina*	L	C1	84
Penicillium dipodomyicola, Frisvad	①	(vi)	17	*Aster sphathulifolius, Aster tripolium, Phragmites australis, Puccinellia nipponica*	R	C1	336
Penicillium echinulatum, Raper & Thom ex Fassatiová	①	(vi)	17	*Chondrus ocellatus*	A	C1	422
Penicillium expansum, H.F. Link	①	(vi)	17	*Pinus roxburgii*	T	C1	50, 158
Penicillium fellutanum, P. Biourge	①	(vi)	17	*Pinus koraiensis, Avicennia marina*	L, N	C1	84, 350
Penicillium freii, Frisvad & Samson	①	(vi)	17	*Cathranthus roseus*	O	C7	356
Penicillium frequentans, R. Westling	①	(vi)	17	*Curcuma zedoaria*	L, L	C1	220, 384
Penicillium funiculosum, C. Thom	①	(vi)	17	*Aster sphathulifolius, Aster tripolium, Phragmites australis, Puccinellia nipponica*	R	C1	543
Penicillium glabrum, R. Westling	①	(vi)	17	*Punica granatum, Punica granatum*	F	C4	97, 256
Penicillium glandicola, Seifert & Samson	①	(vi)	17	*Opuntia ficus-indica*	O	C4	175, 58, 318

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium granulatum, G. Bainier	①	(vi)	17	*Nerium oleander*	N.S.	C1	176
Penicillium griseofulvum, Dierckx, R.P.	①	(vi)	17	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Penicillium guttulosum, J.C. Gilman & E.V. Abbott	①	(vi)	17	*Panax ginseng*	R	C1	143
Penicillium herquei, G. Bainier; A. Sartory	①	(vi)	17	*Alpinia officinarum*	M	C3	126
Penicillium hispanicum, C. Ramírez, A.T. Martínez & Ferrer	①	(vi)	17	*Silybum marianu*	L, R, S, H	C3	115
Penicillium implicatum, P. Biourge	①	(vi)	17	*Diphylleia sinensis*	O	C4	125
Penicillium islandicum, O.J. Sopp	①	(vi)	17	*Phyllanthus amarus*	S	C1	183
Penicillium janthinellum, P. Biourge	①	(vi)	17	*Melia azedarach, Avicennia marina, Suaeda monica and Rhizophora mucronata*	L	C1	65, 125, 158, 178,
Penicillium janzewskiii, K.M. Zalessky	①	(vi)	17	*Prumnopitys andina*	Y	C6	181,
Penicillium kurssanovii, T.V. Chalabuda	①	(vi)	17	*Taxus globosa*	O	C3	74
Penicillium lanosum, R. Westling	①	(vi)	17	*Artemisia nilagirica*	L	C1	500
Penicillium lapidosum, K.B. Raper, D.I. Fennell	①	(vi)	17	*Panax notoginseng*	R	C1	383

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium levitum, K.B. Raper, D.I. Fennell	①	(vi)	17	*Avicennia marina*	L	C1	346
Penicillium limosum, S. Ueda	①	(vi)	17	*Averrhoa bilimbi*	L	C1	335
Penicillium marneffei, G. Segretain	①	(vi)	17	*Taxus globosa*	O	C1	74
Penicillium megasporum, P.A. Orpurt, D.I. FennelL	①	(vi)	17	*Cupressus torulosa*	L W	C1	465
Penicillium meleagrinum, P. Biourge	①	(vi)	17	*Hevea brasiliensis*	L	C3	167
Penicillium menonorum, S.W. Peterson	①	(vi)	17	*Panax ginseng*	N	C1	143
Penicillium melinii, C. Thom				*Artemisia scoparia*	S, L, R	C1	68
Penicillium minioluteum, R.P. Dierckx	①	(vi)	17	*Cajanus cajan*	L, S	C1	371
Penicillium montanense, M. Christensen, M.P. Backus	①	(vi)	17	*Pinus thunbergii*	R	C1	297
Penicillium murcianum, C. Ramírez, A.T. Martínez	①	(vi)	17	*Chenopodium quinoa*	R	C6	386
Penicillium namyslowskii, K.M. Zalessky	①	(vi)	17	*Rhododendron*	L	C3	93
Penicillium nigricans, C. Thom	①	(vi)	17	*Kigelia africana*	B	C2	295
Penicillium nothofagi, J. Houbraken, J.C. Frisvad, R.A. Samson	①	(vi)	17	*Bromus*	G	C3	512
Penicillium ochrochloron, P. Biourge	①	(vi)	17	*Pinus thunbergii*	R	C1	296

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium olsonii, G. Bainier & Sartory	①	(vi)	17	*Capsicum annuum*	L, S, R	C1	160
Penicillium oxalicum, J.N. Currie; C. Thom	①	(vi)	17	*Abies pindrow, Avicennia marina*	L, T	C1	50, 84
Penicillium parvum, K.B. Raper, D.I. Fennell	①	(vi)	17	*Terminalia catappa*	F, Z, S, B, R, R, B	C2	478
Penicillium paxilli, G. Bainier	①	(vi)	17	*Garcinia* sp., *Hevea brasiliensis*	L	C1, C6	36, 167,
Penicillium pinophilum, C. Thom	①	(vi)	17	*Brassica napus, Phragmites australis*	S, L, R	C3	86, 146, 154,
Penicillium polonicum, K.M. Zalessky	①	(vi)	17	*Huperzia serrata*	N.S.	C1	363
Penicillium pseudostromaticum, Hodges, G.M. Warner & Rogerson	①	(vi)	17	*Chamaecyparis thyoides*	L	C1	9
Penicillium purpurogenum, O. Stoll	①	(vi)	17	*Ginkgo biloba, Acalypha indica*	L, R, L, S	C1	86, 135, 146, 154, 175
Penicillium quebecense, Houbraken, Frisvad & Samson	①	(vi)	17	*Vellozia gigantea*	R, L	C3	477
Penicillium raciborskii, K.M. Zalessky	①	(vi)	17	*Rhododendron tomentosum*	L	C6	93
Penicillium raistrickii, G. Smith	①	(vi)	17	Yew, *Phragmites australis*	B, L	C6	146
Penicillium resedanum, McLennan & Ducker	①	(vi)	17	*Capsicum annuum*	H,	C1	486

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium resticulosum, Birkinshaw, Raistrick & G. Smith	①	(vi)	17	*Rhizophora apiculata, Rhizophora mucornata* and *Bruguiera gymnorrhiza*	R	C1	303
Penicillium restrictum, J.C. Gilman & E.V. Abbott	①	(vi)	17	*Silybum marianum*	R	C3	115
Penicillium rivolii, K.W. Zaleski	①	(vi)	17	*Taxus globosa*	O	C1	74
Penicillium rolfsii, C. Thom	①	(vi)	17	*Pinus thunbergii*	R	C1	297
Penicillium roquefortii, C. Thom	①	(vi)	17	*I.asarifolia*	R	C1	88
Penicillium roseopurpureum, R.P. Dierckx	①	(vi)	17	*Pinus thunbergii*	R	C1	297
Penicillium rubrum, O. Stoll	①	(vi)	17	*Melia azedarach*	R, R X, S, L F	C3	475
Penicillium rugulosum, C. Thom	①	(vi)	17	*Melia azedarach*	R, R X, S, L F	C3	475
Penicillium sclerotiorum, F.H. van Beyma	①	(vi)	17	*Garcinia atroviridis, Hevea brasiliensis*	L	C1	42, 86, 158, 167, 182,
Penicillium senticosum, D.B. Scott	①	(vi)	17	*C. fenestratum*	S	C1	74
Penicillium simplicissimum, C. Thom	①	(vi)	17	*Panax ginseng*	L	C6	143
Penicillium solitum, R. Westling	①	(vi)	17	Grapevines, *Malus* sp.	S	C1, C2, C6, C6	131, 542,
Penicillium soppii, K.M. Zalessky	①	(vi)	17	*Saccharina latissima*	A	C3	359

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium sp.	①	(vi)	17	*Acrostichum aureum, Aegiceras corniculatum, Alibertina macrophylla, Angelica sinensis, Annova squamosa, Avicennia marina, Beta vulgaris, Centella asiatica, Cerbera manghas, Cymodocea serrulata Diphylleia sinensis, Dysosma veitchii, Fucus serratus, Fucus spiralis, Fucus vesiculosus, Halodule beaudettei, Halodule* sp., *Camellia caduca, Schima khasiana*	R, L, M	C1, C6	18, 24, 32, 36, 38, 49, 55, 57, 58, 59, 63, 66, 72, 75, 78, 82, 83, 87, 88, 90, 103, 105, 110, 115, 117, 122, 125, 126, 143, 145, 146, 154, 155, 165, 175, 185, 200, 208, 482
Penicillium spinulosum, C. Thom	①	(vi)	17	*Chamaecyparis thyoides*	L	C3	9
Penicillium steckii, K.M. Zalessky	①	(vi)	17	*Palmaria decipiens*	A	C5	309
Penicillium sublateritium, P. Biourge	①	(vi)	17	*Calotropis procera*	S, L	C1	41, 68, 84
Penicillium sumatrense, Svilv.	①	(vi)	17	*Pinus koraiensis*	N	C1	64
Penicillium swiecickii, K.M. Zalessky	①	(vi)	17	*Paris polyphylla*	L	C3	272
Penicillium thomii, R. Maire C.J.E.	①	(vi)	17	*Chamaecyparis thyoides*	L	C3	9

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Penicillium toxicarium, I. Miyake ex C. Ramírez	①	(vi)	17	*Taxus globosa*	O	C6	74
Penicillium turbatum, R. Westling	①	(vi)	17	*Phragmites australis*	R	C1	146
Penicillium verruculosum, B. Peyronel	①	(vi)	17	*Potentilla fulgens*	R	C1	78, 255
Penicillium vinaceum, J.C. Gilman, E.V. Abbott	①	(vi)	17	*Crocus sativus*	R	C1	181
Penicillium viridicatum, R. Westling	①	(vi)	17	*Ziziphus nummularia*	L	C1	463
Penicillium viticola, Nonaka & Masuma	①	(vi)	17	*Aster sphathulifolius, Aster tripolium, Phragmites australis, Puccinellia nipponica*	R	C1	336
Penicillium waksmanii, K.M. Zalessky	①	(vi)	17	*Taxus globosa*	O	C4	74
Penidiella sp.	①	(v)	8	N.S.	W	C3	56
Peniophora cinerea, Höhnel & Litschauer	②	(i)	1	*Theobroma gilero*	S	C4	311
Peniophora lycii, F. von Höhnel; V. Litschauer	②	(i)	1	*Juniperus procera*	T	C1	426
Peniophora sp.	②	(i)	1	*Triticum aestivum*	O	C6	311
Penzigia berteri, L.W. Miller	①	(xviii)	47	*Euterpe oleracea*	L	C6	189
Perenniporia nanlingensis, C.L. Zhao, B.K. Cui	②	(i)	48	*Vanilla planifolia*	L	C6	473

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Perenniporia sp.	②	(i)	36	*Theobroma gileri*	S	C4	101
Perenniporia tephropora, L. Ryvarden	②	(i)	48	*Taxus chinensis*	B	C1	211
Periconia atropurpurea, M.A. Litvinov	①	(v)	34	Xylopia aromatica	L	C4	183
Periconia byssoides, C.H. Persoon	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4	334
Periconia cambrensis, E.W. Mason; M.B. Ellis	①	(v)	34	*Rhizophora mangle*	L	C4	154
Periconia digitata, P.A. Saccardo.	①	(v)	34	*Musa acuminata*	L	C1	17
Periconia macrospinosa, Lefebvre & Aar.G. Johnson	①	(v)	34	*Acer truncatum*	L	C1	76, 78, 82, 87, 158
Periconia minutissima, A.C.J. Corda	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4	334
Periconia pseudobyssoides, S. Markovskaja, A. Kačergius	①	(v)	34	*Rhizophora mucronata*	L	C1	508
Periconia siamensis	①	(v)	34	*Thysanoleana latifolia*	G	C1	288
Periconia sp.	①	(v)	34	*Azadirachta indica, Brassica napus, Fagus crenata, Cordemoya integrifolia, Taxus cuspidata, Torreya grandiflora, Toxicodendron vernicifluum, Triticum aestivum*	R, L, S, B	C1, C1, C2, C2	12, 24, 57, 125, 134, 158, 161, 166

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Periconia tirupatiensis, C.V. Subramanian	①	(v)	34	*E. citriodora*	L	C1	415
Periconiella musae, M.B. Ellis	①	(v)	8	*Musa acuminata*	S	C1, C1	17, 30
Periconiella sp.	①	(v)	8	*Fagus crenata, Dendrobium*	L, S, R	C1	122
Perisporiopsis melioloides, (Berkeley & M.A. Curtis) Arx	①	(v)	21	*Hevea brasiliensis*	L	C4	167
Pesotum sp.	①	(xviii)	28	*Pseudotsuga menziesii*	R	C3	373
Pestalosphaeria sp.	①	(xviii)	47	*Hevea brasiliensis*	L	C3	69
Pestalotia sp.	①	(xviii)	47	*Syzygium cumini, Lepanthes*	R, L	C4	21, 122
Pestalotia bicilia, Dearn. & Bisby	①	(xviii)	47	*T. baccata*	B	C3	166
Pestalotia macrotricha, Klebahn	①	(xviii)	47	*Aegle marmelos*	F	C1	363
Pestalotia pauciseta, P.A. Saccardo	①	(xviii)	47	*Cardiospermum helicacabum, Tabebuia pentaphylla*	L	C1	241
Pestalotia pezizoides, G. De Notaris	①	(xviii)	47	*Camellia oleife*	L, B	C1	508
Pestalotiopsis adusta, R.L. Steyaert	①	(xviii)	47	*Citrus limon*	L	C6	125, 158, 200
Pestalotiopsis algeriensis, (Saccardo & Berlese) W.P. Wu	①	(xviii)	47	*Pinus armandii*	B	C1	580
Pestalotiopsis australasiae, Maharachchikumbura, K.D. Hyde &	①	(xviii)	47	*Vellozia gigantea*	R, L	C4	477

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
P.W. Crous							
Pestalotiopsis baarnensis, R.L. Steyaert	①	(xviii)	47	*Rhododendron*	S, L	C6	277
Pestalotiopsis besseyi, T.R. Nag Raj	①	(xviii)	47	*Pinus halepensis*	T, N	C6	83
Pestalotiopsis briosiana, J.G. Wei & T. Xu	①	(xviii)	47	*C. sasanqua*	L, T	C1	340
Pestalotiopsis carveri (Guba) P.L. Zhu, Q.X. Ge & T. Xu	①	(xviii)	47	*Pinus armandii*	B	C1	580
Pestalotiopsis caudata (Sydow) B. Sutton	①	(xviii)	47	*Pinus armandii*	B	C1	580
Pestalotiopsis clavispora, R.L. Steyaert	①	(xviii)	47	*C. sinensis*	L, T	C1	111
Pestalotiopsis cocculi (Guba) G.C. Zhao & N. Li	①	(xviii)	47	*Pinus armandii*	B	C1	580
Pestalotiopsis conigena, G.C. Zhao & N. Li	①	(xviii)	47	*C. oleifera*	L, T	C1	340
Pestalotiopsis cruenta, R.L. Steyaert	①	(xviii)	47	*Tripterygium wilfordii*	L	C1	31
Pestalotiopsis disseminata, R.L. Steyaert	①	(xviii)	47	*Tripterygium wilfordii, Trachycarpus fortunei*	L	C1	31, 591
Pestalotiopsis espaillatii, (Ciferri & González Fragoso) Satya	①	(xviii)	47	*Pinus elliottii, Pinus massoniana*	N	C1	558
Pestalotiopsis fici, R.L. Steyaert	①	(xviii)	47	*Camellia sinensis*	L	C1	158

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pestalotiopsis foedan, R.L. Steyaert	①	(xviii)	47	*Citrus limon*	L	C6	181,
Pestalotiopsis funerea, R.L. Steyaert	①	(xviii)	47	*Chamaecyparis thyoides, Sequoia sempervirens*	L	C3, C3	9
Pestalotiopsis funereoides, R.L. Steyaert	①	(xviii)	47	*Taraxacum coreanum*	L, R	C1	294
Pestalotiopsis guepinii, R.L. Steyaert	①	(xviii)	47	*Wallemia nobilis, E. nitens, E. grandis, Spondias mombin*	S, X, L	C4, C2	8, 14, 42, 125, 150, 166, 175, 205
Pestalotiopsis hainanensis, A.R. Liu, T. Xu, L.D. Guo	①	(xviii)	47	*Podocarpus macrophyllus*	S, L, R, F	C1	391
Pestalotiopsis hangzhouensis	①	(xviii)	47	*C. sinensis*	L, T	C1	340
Pestalotiopsis heterocornis, Y.X. Chen	①	(xviii)	47	*Artemisia species*	S, L	C1	95
Pestalotiopsis jesteri, Strobel, J. Yi Li, E.J. Ford & W.M. Hess	①	(xviii)	47	*Fragraea bodenii*	B	C6	125, 158
Pestalotiopsis jiangxiensis, F. Liu & L. Cai	①	(xviii)	47	*Pandanus*	L	C1	559
Pestalotiopsis karstenii, R.L. Steyaert	①	(xviii)	47	*Camellia japonica*	L, T	C1	340
Pestalotiopsis kunmingensis, Wei, J.G.; Xu, T.	①	(xviii)	47	*Podocarpus macrophyllus*	L	C1	374
Pestalotiopsis leucothoes, (R.P. White) Steyaert	①	(xviii)	47	*Tripterygium wilfordii*	L	C1	158

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pestalotiopsis lespedezae (Sydow) Bilgrami	①	(xviii)	47	*Pinus armandii*	B	C1	580
Pestalotiopsis maculans, T.R. Nag Raj	①	(xviii)	47	*Coffea arabica*, *Shorea thumbuggaia*	L	C6, C1	73, 132
Pestalotiopsis mangiferae, R.L. Steyaert	①	(xviii)	47	*Mangifera indica*	L	C1	286
Pestalotiopsis mangifolia, J. Zhang, T. Xu, Q. Ge	①	(xviii)	47	*Camellia japonica*	L, T	C1	340
Pestalotiopsis microspora, Batista & Peres	①	(xviii)	47	*Annona muricata*, *Calliandra angustifolia*, *Dicrorisandra ulei*, *Lonchocarpus glabrescens*, *Psidium acutangulu*, *Psidium guajava*, *Siparuna aspera*, *Taxodium distichum*, *Taxus wallichiana*, *Terminalia morobensis*, *Theobroma cacao*, *Torreya taxifolia*	S, C	C4	33, 42, 78, 79, 80, 86, 95, 111, 125, 127, 152, 158, 166, 199, 205
Pestalotiopsis montellica, Saccardo & Voglino	①	(xviii)	47	*Pinus elliottii*	N	C1	558
Pestalotiopsis neglecta, R.L. Steyaert	①	(xviii)	47	*Taxus cuspidata*	L, B	C1	241
Pestalotiopsis olivacea, G.C. Zhao & J. He	①	(xviii)	47	*C. sasanqua*	L, T	C1	340
Pestalotiopsis osyridis, Sun, H.T.; Cao, R.B.	①	(xviii)	47	*C. reticulata*	L, T	C1	340

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pestalotiopsis oxyanthi, R.L. Steyaert	①	(xviii)	47	*C. oleifera*	L, T	C1	340
Pestalotiopsis paeoniae, R.L. Steyaert	①	(xviii)	47	*C. sasanqua*	L, T	C1	340
Pestalotiopsis pallidotheae, Kyoto Watan. & Yas. Ono	①	(xviii)	47	*Citrus limon*	L	C6	343
Pestalotiopsis palmarum, (Cooke) Steyaert	①	(xviii)	47	*Euterpe oleracea*, *Hevea brasiliensis*	L	C6	13, 167,
Pestalotiopsis pauciseta, Y.X.Chen, G. Wei	①	(xviii)	47	*Tabebuia pentaphylla*, *Cardiospermum helicacabum*, *Paullinia paullinioides*	L	C6	166, 242
Pestalotiopsis photiniae, Y.X.Chen, G. Wei	①	(xviii)	47	*Roystonea regia*, *Podocarpus macrophyllus*	O	C1	80, 152,
Pestalotiopsis protearum, P.W. Crous; L. Swart	①	(xviii)	47	*Rhizophora mucronata*	L	C1	508
Pestalotiopsis sp.	①	(xviii)	47	*Acanthus ilicifolius*, *Alpinia officinarum*, *Artemisia capillaris*, *Azadirachta indica*, *Bruguiera*, *Banksia integrifolia*, *Carapa guianensis*, *Canarium ovatum*, *Dalbergia oliveri*, *Dipterocarpus tuberculatus*, *Eschweilera sagotiana*, *Glycine max*, *holarrhena antidysenterica*, *Jacaranda* sp., *Licuala ramsayi*	M, R, S, L	C4, C4, C1, C4, C1, C1, C7	7, 17, 20, 22, 24, 29, 30, 31, 32, 38, 42, 55, 57, 60, 69, 75, 77, 79, 80, 99, 126, 129, 152, 165, 95, 205, 98, 108, 110, 121,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
							122, 150, 151, 172, 208, 304
Pestalotiopsis subcuticularis, J.G. Wei & T. Xu	①	(xviii)	47	*C. sasanqua*	L, T	C1	340
Pestalotiopsis submersus, Sati & N. Tiwari	①	(xviii)	47	*C. viminea*, *E. adenophorum*	R	C1	366
Pestalotiopsis suffocata, G. Wei & T. Xu	①	(xviii)	47	*Tripterygium wilfordii*	L	C1	31
Pestalotiopsis terminaliae, G.P. Agarwal & Hasija	①	(xviii)	47	*Terminalia arjuna*	L	C1	158, 166
Pestalotiopsis theae, R.L. Steyaert	①	(xviii)	47	*Diospyros crassiflora*	C, O	C1, C6	101, 151, 152,
Pestalotiopsis uvicola, J. Bissett	①	(xviii)	47	*Artemisia*	L, S	C1	95
Pestalotiopsis versicolor, R.L. Steyaert	①	(xviii)	47	*Taxus cuspidata*	L, B	C1	241
Pestalotiopsis virgatula, R.L. Steyaert	①	(xviii)	47	*Sonneratia caseolaris*	L	C1	111
Pestalotiopsis vismiae, J. Xiang Zhang & T. Xu	①	(xviii)	47	*Glycine max*, *Tripterygium wilfordii*	R, L	C4, C1	31, 129
Pestalotiopsis yunnanensis J.G. Wei, T. Xu & L.D. Guo	①	(xviii)	47	*Pinus armandii*	B	C1	580
Petrakia irregularis, Aa, H.A. van der.	①	(v)	34	*Acer pseudoplatanus*	T	C6	201

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Petriella guttulata, G.L. Barron & Cain	①	(xviii)	24	*Holcus lanatus*	G	C6	315
Petriella setifera, M. Curzi	①	(xviii)	24	*Nothapodytes nimmoniana*	T	C6	50
Petriella sordida, G.L. Barron; R.F. Cain; J.C. Gilman	①	(xviii)	24	*Avicennia officinalis*	R	C1	395
Petriella sp.	①	(xviii)	24	*Pinus roxburgii*	T	C1	50
Peyronellaea australis, Aveskamp, J. de Gruyter & G.J.M. Verkley	①	(v)	34	N.S.	N.S.	C4	474
Peyronellaea calorpreferens, Aveskamp, J. de Gruyter & G.J.M. Verkley	①	(v)	34	*Pinus koraiensis*	N	C1	338
Peyronellaea eucalyptica, Aveskamp, J. de Gruyter & G.J.M. Verkley	①	(v)	34	*Juniperus procera*	T	C1	426
Peyronellaea glomerata, Goidànich ex Togliani	①	(v)	34	*Pinus koraiensis*	N	C1	65, 338
Peyronellaea pinodella, M.M. Aveskamp; J. de Gruyter; G.J.M. Verkley	①	(v)	34	*Zanthoxylum bungeanum*	O	C4	552
Peyronellaea pomorum, M.M. Aveskamp; J. de Gruyter; G.J.M. Verkley	①	(v)	34	*Citrus limon*	L	C6	343
Peyronellaea prosopidis, P.W. Crous & A. Wood	①	(v)	34	*Glycine max*	L	C4	129

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Peyronellaea sancta, Aveskamp, J. de Gruyter & G.J.M. Verkley	①	(v)	34	*Juniperus procera*	T	C1	426
Peyronellaea sp.	①	(v)	34	*Glycine max, Huperzia serrata, Verbena* sp.	N.S.	C1	155, 139
Pezicula acericola, C. H. Peck, ex P.A. Saccardo & Berlese	①	(x)	18	*Acer pseudoplatanus*	C	C6, C6	418
Pezicula carpinea, Tulasne & C. Tulasne ex Fuckel L.	①	(x)	18	*Carpinus betulus*	T	C6	201
Pezicula cinnamomea, P.A. Saccardo	①	(x)	18	*Alnus glutinosa, Juniperus communis, Castanea sativa*	T	C6, C6	201, 205
Pezicula ericae, (Sigler) P.R. Johnston	①	(x)	18	*Rhododendron ovatum*	R	C1	566
Pezicula livida, (Berkeley & Broome) Rehm	①	(x)	18	*Acer macrophyllum, Picea abies, Pinus sylvestris, Sequoia sempervirens*	L, T	C6C4, C3, C6, C6	182
Pezicula sp.	①	(x)	18	*Abies alba, Alnus, Dendrobium, Fagus sylvatica, Pinus sylvestris*	T, R, S, L	C1, C6	29, 122
Pezicula sporulosa, G.J.M. Verkley	①	(x)	18	*Vellozia gigantea*	R, L	C4	477
Peziza varia, (Hedw.) Alb. & Schwein.	①	(xv)	31	*Pinus halepensis*	T, N	C6	83
Pezizella discreta, (P. Karst.) Dennis	①	(x)	74	*Monostroma hariotii*	A	C5	309
Phacidium sp.	①	(x)	85	*C. camphora*	L, S, L	C1	415
Phaeangium lefebvrei, Patouillard	①	(xv)	31	*Centaurea stoebe*	W	C6	103

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phaeoacremonium aleophilum, W. Gams, P.W. Crous, M.J. Wingf. & Mugnai	①	(xviii)	14	*Vitis vinifera*	L, T	C6	66
Phaeoacremonium inflatipes, W. Gams, P.W. Crous & M.J. Wingfield	①	(xviii)	14	*Vitis vinifera*	L, T	C6	66
Phaeoacremonium parasiticum, (Ajello, Georg & C.J.K. Wang) W. Gams, P.W. Crous & M.J. Wingf.	①	(xviii)	14	Grapewine	U	C2	281
Phaeoacremonium rubrigenum, W. Gams, P.W. Crous & M.J. Wingfield	①	(xviii)	14	*Dactylis glomerata*	G	C6	164
Phaeoacremonium sp, P.W. Crous; W. Gams; M.J. Wingfield	①	(xviii)	14	*Senna spectabilis*	L	C3	61, 164
Phaeobotryosphaeria visci, (Kalchbr.) A.J.L. Phillips & P.W. Crous	①	(v)	6	*Sphaeropsis visci*	S	C6	337
Phaeocytostroma plurivorum, B. Sutton	①	(vii)	21	*S. grandis*	L, R	C1	82
Phaeomoniella chlamydospora, (W. Gams, Crous, M.J. Wingf. & Mugnai) Crous & W. Gams	①	(xviii)	39	*Vitis vinifera*	L, T	C2	281
Phaeomoniella effusa, Damm & P.W. Crous	①	(vi)	75	*Eucalyptus globulus*	V	C6	479
Phaeomoniella niveniae, P.W. Crous	①	(vi)	75	*Eucalyptus globulus*	V	C6	479

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phaeomoniella sp.	①	(vi)	75	*Fraxinus excelsior*	U	C6	83
Phaeomollisia sp.	①	(vi)	75	*Picea koraiensis*	V	C1	562
Phaeoramularia calotropidis, (Ellis & Everh.) Kamal, A.S. Moses & R. Chaudhary	①	(v)	8	*Calotropis procera*	L	C4	117
Phaeoseptoria sp.	①	(v)	34	*Triticum aestivum*	O	C4	12
Phaeosphaeria ammophilae, (Lasch) Kohlmeyer & E. Kohlmeyer	①	(v)	34	*Curcuma longa*	R	C1	419
Phaeosphaeria dennisiana, Leuchtmann, A.	①	(v)	34	*Deschampsia antarctica*	G	C5	307
Phaeosphaeria herpotrichoides, (De Notaris.) L. Holm	①	(v)	34	*Phleum pratense*	L	C6	47
Phaeosphaeria lycopodina, (J.P.F.C. Montagne) Hedjar.	①	(v)	34	*S. grandis*	L, R	C1	82
Phaeosphaeria nodorum, (E. Müll.) Hedjar.	①	(v)	34	*Vitis vinifera*	U	C6	82
Phaeosphaeria pontiformis, (L. Fuckel) A. Leuchtmann	①	(v)	34	*Taraxacum coreanum*	S, R, L	C1	87, 159
Phaeosphaeria sp.	①	(v)	34	*Erythrina smithiana, Caladenia carnea*	S, R	C4, C7	49, 57, 78, 79, 82, 83, 87, 88, 98,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
							121, 122
Phaeosphaeria triglochinicola, (Currey) A. Leuchtmann	①	(v)	34	*Cassiope tetragona, saxifragia, Silene*	V	C5	121
Phaeosphaeria vagans, (Niessl) O.E. Eriksson	①	(v)	34	*Bromus*	R	C3	512
Phaeosphaeria volkartiana, (E. Müller) Hedjaroude G.-A.	①	(v)	34	*Taraxacum coreanum*	S, R	C1	294
Phaeosphaeriopsis musae, M. Arzanlou, P.W. Crous	①	(v)	34	*Rhizophora mucronata*	L	C1	508
Phaeostalagmus cyclosporus (Grove) W. Gams	①	(x)	9	*Keteleeria fortunei, Keteleeria fortunei, Pinus elliottii, Pinus massoniana*	N	C1	558
Phanerochaete chrysosporium, H.H. Jr. Burdsall	②	(i)	48	*Vicia faba, Phaseolus vulgaris*	Hs	C2	419
Phanerochaete crassa, (Léveillé) H.H. Burdsall	②	(i)	48	*Curcuma longa*	Z	C1	46
Phanerochaete pulverulentum	②	(i)	48	*Eucalyptus globulus*	S	C4	305
Phanerochaete sordida, (P. Karst.) J. Erikss. & Ryvarden	②	(i)	48	*Taxus mairei*	L	C1	101
Phanerochaete sp.	②	(i)	48	*T. cacao, Taxus mairei*	S. F	C4, C2	102
Phellinus sp.	②	(i)	19	*Huperzia serrata*	S, R, L	C1	176

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phialemonium curvatum, W. Gams & W.B. Cooke	①	(xviii)	39	Grapewine	R	C2	281
Phialemonium dimorphosporum, W. Gams & W.B. Cooke	①	(xviii)	39	*Dactylis glomerata, Holcus lanatus*	G	C2	87, 201
Phialemonium sp.	①	(xviii)	39	*V. negundo*	L	C6	352
Phialocephala dimorphospora, W.B. Kendr.	①	(x)	18	*Acer pseudoplatanus, Larix decidua*	T	C6	201
Phialocephala europaea, Grünig & T.N. Sieber	①	(x)	18	*Picea abies*	R	C6	292
Phialocephala fortinii, C.J.K. Wang & H.E. Wilcox	①	(x)	18	*Picea abies, Podophyllum peltatum, Sinopodophyllum peltatum*	R	C6	81, 125, 130, 158, 166,
Phialocephala glacialis, C.R. Grünig, T.N. Sieber	①	(x)	18	*Vaccinium myrtillus*	R	C6	292
Phialocephala helvetica, C.R. Grünig; T.N. Sieber	①	(x)	18	*Picea abies*	R	C6	292
Phialocephala letzii, C.R. Grünig; T.N. Sieber	①	(x)	18	*Picea abies*	R	C6	292
Phialocephala sp.	①	(x)	18	*Acer pseudoplatanus, Pinus densiflora, Pinus thunbergii *densiflora*	L, T	C1, C6	130
Phialocephala sphaeroides, B.J. Wilson	①	(x)	18	*Picea abies, B. papyrifera, Rubus idaeus, Smilacina trifolia,*	R	C6	130

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				Deschampsia flexuosa and T. europaea			
Phialocephala subalpina, C.R. Grünig, T.N. Sieber	①	(x)	18	*Vaccinium myrtillus*	R	C6	292
Phialocephala turiciensis, C.R. Grünig, T.N. Sieber	①	(x)	18	*Picea abies*	R	C6	292
Phialocephala uotolensis, C.R. Grünig, T.N. Sieber	①	(x)	18	*Picea abies*	R	C6	292
Phialophora bubakii, (Laxa) Schol-Schwarz	①	(vi)	10	*Cladonia coniocraea*	O	C6	109
Phialophora cinerescens, (Wollenw.) J.F.H. Beyma	①	(vi)	10	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Phialophora cyclaminis, J.F.H. Beyma	①	(vi)	10	Mediterranean tress	R	C6	300
Phialophora fastigiata, (Lagerb. & Melin) Conant	①	(vi)	10	*Pinus nigra*	N	C6	456
Phialophora graminicola, (Deacon) J. Walker	①	(vi)	10	*Vulpia ciliata*	G	C6	158
Phialophora hoffmanni, (J.F.H. Beyma) Schol-Schwarz	①	(vi)	10	*Ulex europaeus.*	S	C6	184
Phialophora mustea, P. Neergaard	①	(vi)	10	*Panax notoginseng*	R	C1	500
Phialophora sp.	①	(vi)	10	*Anemone nemorosa, Canarium ovatum, Ceriops decandra, Cordemoya i*	S, L	C6, C1, C1, C1,	10, 12, 17, 18, 22, 24,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				ntegrifolia, Musa acuminata, Rhizophora apiculata, Salix alba, Silene dioica, Thalassia sp.		C1, C1	31, 32, 66, 82, 90, 110, 117, 122
Phialophorophoma litoralis, D.H. Linder	①	(vii)	21	*Taxus globosa*	O	C3	74
Phlebia radiata, E.M. Fries	②	(i)	48	*Ammophila arenaria*	G	C4, C4, C2	315
Phlebia sp.	②	(i)	48	*Elaeis guineensis*	S, R	C6	372
Phlebia subserialis, (Bourdot & Galzin) Donk	②	(i)	48	*Solanum cernuum*	O	C6	311
Phlebia uda, (Fries) K.K. Nakasone	②	(i)	48	*Festuca*	L	C3	512
Phlebiospsis gigantea, (Fries) W. Jülich	②	(i)	48	*Capsicum annuum*	L, S, R	C1	339
Phloeospora aceris, (Libert, M.A.) P.A. Saccardo	①	(v)	8	*Acer pseudoplatanus*	L	C6	201
Phloeosporella sp.	①	(x)	18	*Alnus*	L, T	C3	29
Phlogicylindrium eucalypti, P.W. Crous, Summerb. & Summerell	①	(xviii)	47	*Theobroma gileri*	S	C4	102
Phlyctis argena, (Acharius) Flotow	①	(ix)	50	*Vitex negundo.*	L	C1	352
Phoma americana, Morgan-Jones & J.F. White	①	(v)	34	*Gossypium hirsutum*	L	C3	46
Phoma betae, A.B. Frank	①	(v)	34	*G. biloba*	L	C1	161
Phoma caloplacae, D. Hawksw.	①	(v)	34	*Triticum aestivum*	O	C6	311

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phoma cava, Schulzer	①	(v)	34	*Acer saccharum*	L, L	C3	341
Phoma chenopodiicola, J. de Gruyter, Noordel. & Boerema, Persoonia	①	(v)	34	*Broussonetia papyrifera, Celtis occidentalis and Ligustrum lucidum*	L, S	C4	328
Phoma chrysanthemicola, Hollós	①	(v)	34	*E. nitens*	S	C2	41, 55, 68, 72, 84
Phoma crystallifera, J. de Gruyter, Noordel. & Boerema	①	(v)	34	*Brassica napus*	S, R, L	C1	178
Phoma cucurbitacearum, (E.M. Fries) P.A. Saccardo	①	(v)	34	*Taraxacum coreanum*	S, R, L	C1	294
Phoma destructiva, C.B. Plowright	①	(v)	34	*Gossypium* spp.	L	C4	500
Phoma draconis, (Berkeley ex Cooke) Boerema	①	(v)	34	*Panax notoginseng*	R	C1	73
Phoma epicoccinia	①	(v)	34	*Phyllanthus amarus*	S	C6, C4	344
Phoma eupatorii, H. Diedicke	①	(v)	34	*Eupatorium caunabinum*	U	C6	445
Phoma eupyrena, P.A. Saccardo	①	(v)	34	*Coffea arabica*	L	C1	73, 132, 154
Phoma exigua, Desmazières, J.B.H.J.	①	(v)	34	*Taraxacum coreanum*	S, R, L	C1	58
Phoma fimeti, Brunaud	①	(v)	34	Mediterranean tress	R	C6	300
Phoma glomerata, (A.C.J. Corda) Wollenw. & Hochapfel	①	(v)	34	*E. nitens, E. grandis, Glycine max, Solanum cernuum, Triticum aestivum*	L, S, X	C4, C2	12, 63, 66, 73, 76, 78,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				Trachycarpus fortunei	L	C1	129, 145, 591
Phoma hedericola, (Durieu & J.P.F.C. Montagne) Boerema	①	(v)	34	*Avicennia marina*	L	C1	41, 68, 84
Phoma herbarum, G.D. Westendorp	①	(v)	34	*Silene dioica*	L	C6	83, 87, 103, 144, 154, 164
Phoma jolyana, Piroz. & Morgan-Jones	①	(v)	34	*E. nitens*	S	C2	188
Phoma leonuri, Letendre	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4	334
Phoma leveillei, Boerema & G.J. Bollen	①	(v)	34	*A. thaliana*	S, L	C6	161
Phoma lingam, (Tode) Desmazières, J.B.H.J.	①	(v)	34	*Eucalyptus globulus*	S	C4	305
Phoma macrostoma, J.P.F.C. Montagne	①	(v)	34	*Millingtoniahortensis, Tabebuia* sp.	L	C1	58, 124
Phoma medicaginis, Malbranche & Roumeguère	①	(v)	34	Grapevines, *Taxus globosa*	O	C6, C3	74, 78, 131, 158, 164
Phoma microchlamydospora, Aveskamp & G.J.M. Verkley	①	(v)	34	*Terminalia mantaly*	F, Z, S, B, R, R, B	C2	478
Phoma moricola, P.A. Saccardo	①	(v)	34	*E. longifolia*	L	C6	145
Phoma multirostrata, (P.N. Mathur, S.K. Menon & Thirum.) Dorenb. & Boerema	①	(v)	34	*Trachycarpus fortunei*	L	C1	591

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phoma nebulosa, (Persoon) Berkeley	①	(v)	34	*Mimusops elengi, Trachycarpus fortunei*	L, T	C1	362, 561
Phoma pinodella, (L.K. Jones) Morgan-Jones & K.B. Burch	①	(v)	34	*Holcus lanatus, Hevea brasiliensis, Trachycarpus fortunei*	G	C1, C4	167, 591
Phoma pomorum, Thümen, F. von.	①	(v)	34	*Glycine max*	L	C6	129
Phoma putaminum, C. Spegazzini	①	(v)	34	*Dendrobium crumenatum*	R	C6	300
Phoma radicina, (McAlpine) Boerema	①	(v)	34	*Thielavia arenaria*	R	C1	149, 162
Phoma selaginellicola, Gruyter, Noordeloos, Aa & Boerema	①	(v)	34	*Dysosma versipellis*	R	C1	572
Phoma solani, Cooke & Harkn.	①	(v)	34	*Boswellia sacra*	S, L	C1	299
Phoma sorghina, (P.A. Saccardo) Boerema, Dorenb. & Kesteren	①	(v)	34	*Tithonia diversifolia*	L	C4	145
Phoma sp.	①	(v)	34	*Arisaema erubescenes, Anemone nemorosa, Avicennia marina, Buddleja asiatica, Brassica napus, Canarium ovatum. Cordemoya integrifolia, Glycine max, Lepanthes, Quercus ilex, Musa acuminata, Plumeria rubra, Rhizophora apiculata, Saurauia scaberrinae, Taxus wallichinia, Toxicodendron vernicifluum,*	R, X, T, B, L	C6, C4, C1, C1, C1, C2, , C6, C3, C1, C1	10, 13, 17, 18, 22, 24, 29, 30, 31, 32, 37, 38, 41, 42, 53, 57, 58, 62, 66, 68, 72, 75, 76, 80, 84, 90, 99,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				Tripterygium wilfordii, Ulex europaeus, Trachycarpus fortunei			105, 109, 121, 122, 125, 129, 591134, 145, 148, 150, 152, 155, 159, 161, 164
Phoma terrestris, H.N. Hansen	①	(v)	34	*Mimosops elengi*	L	C6	196
Phoma tracheiphila, (Petri) L.A. Kantsch. & Gikaschvili	①	(v)	34	*Centaurea stoebe, Lippia sidoide*	W	C6	322, 487
Phoma tropica, R. Schneid. & Boerema	①	(v)	34	*Silene dioica*	L	C6	175, 176
Phomatospora sp.	①	(xviii)	21	*Euterpe oleracea*	L	C4	60
Phomopsis theicola, M. Curzi	①	(xviii)	14	*Hevea brasiliensis*	L	C3	167
Phomopsis archeri, B. Sutton	①	(xviii)	14	*Acer truncatum, Lippia sidoide*	L	C1, C4	73, 76, 150, 154, 175, 487
Phomopsis asparagi, (P.A. Saccardo) Grove	①	(xviii)	14	*Phoenix dactylifera*	R	C6	446
Phomopsis azadirachtae, M.K. Sateesh,S. Shankara Bhat, N.S. Devaki	①	(xviii)	14	*Avicennia marina*	L	C1	590

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phomopsis bougainvilleicola, M.M. Xiang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*Artemisia species*	L, S	C1	95
Phomopsis cassiae, Sousa da Câmara	①	(xviii)	14	*Cassia spectabilis*	W	C4	12, 51, 52, 158, 200
Phomopsis chimonanthi, C.Q. Chang, M.M. Xiang & P.K. Chi	①	(xviii)	14	*Betula platyphylla, Quercus liaotungensis, Ulmus macrocarpa*	L, C	C1	1
Phomopsis columnaris, D.F. Farr & Castl.	①	(xviii)	14	*Pinus thunbergii*	R	C1	87
Phomopsis conorum, (P.A. Saccardo) Diedicke, H.	①	(xviii)	14	*Pinus sylvestris*	T, N	C1	95
Phomopsis diachenii, P.A. Saccardo	①	(xviii)	14	*Avicennia schaueriana* (A), *Laguncularia racemosa*	O	C4	154
Phomopsis eucommicola, C.Q. Chang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*Pinus koraiensis*	N	C1	95
Phomopsis eucommii, C.Q. Chang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*Taxus chinensis*	B, C, L	C1	95
Phomopsis glabrae, C.Q. Chang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*R. stylosa and R. mucronate.*	R, L	C1	509
Phomopsis glandicola, (Lév.) Grove	①	(xviii)	14	*Quercus ilex*	L	C6	184
Phomopsis jacquiniana	①	(xviii)	14	*C. fenestratum*	S	C1	67

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phomopsis lagerstroemiae, C.Q. Chang, M.M. Xiang & P.K. Chi	①	(xviii)	14	*Phoenix dactylifera*	R	C6	95
Phomopsis ligulata, Grove	①	(xviii)	14	*Ulex europaeus.*	S, X	C6	184
Phomopsis ligustri-vulgaris, F. Petrak	①	(xviii)	14	*Broussonetia papyrifera, Celtis occidentalis* and *Ligustrum lucidum*	L, L	C6	328
Phomopsis liquidambari, C.Q. Chang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*Bischofia polycarpa*	S	C1	46, 95
Phomopsis longicolla, Hobbs, T.W.	①	(xviii)	14	*Bostrychia radicans, Dicerandra frutescens, Phaseolus vulgaris*	L	C4	6, 34, 76
Phomopsis loropetali voucher, C.Q. Chang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*Artemisia species*	L, S	C1	95
Phomopsis magnoliae, M.M. Xiang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*Artemisia argyi*	S, L, R F	C1	95
Phomopsis oblonga, (Desmazières, J.B.H.J.) Traverso	①	(xviii)	14	*elm Bark, Scolytus scolytus, Scolytus multistraitusUlmus glabra*	B	C6	125, 180,
Phomopsis obscurans, (Ellis & Everh.) B. Sutton	①	(xviii)	14	Leaf		C4	303
Phomopsis occulta, Traverso, J.B.	①	(xviii)	14	*Sequoia sempervirens*	L, F	C3	191
Phomopsis oryzae, E. Punithalingam	①	(xviii)	14	*Artemisia species*	S, L	C1	34, 95
Phomopsis phaseoli, (Desmazières, J.B.H.J.) P.A. Saccardo	①	(xviii)	14	*Coffea arabica*	L	C6	158

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phomopsis phyllanthicola, C.Q. Chang, Z.D. Jiang & P.K. Chi	①	(xviii)	14	*Restinga*	R, S, L	C6	34, 86, 95
Phomopsis pittospori, (Cooke & Harkn.) Grove	①	(xviii)	14	*Avicennia officinalis*	R	C1	395
Phomopsis quercella, (P.A. Saccardo & Roum.) H. Diedicke	①	(xviii)	14	*Cephalotaxus hainanensis*	W	C1	489
Phomopsis quercina, (P.A. Saccardo) (Corda) Höhnel ex Diedicke, H.	①	(xviii)	14	*Quercus cerris, Quercus robur*	T	C6	37, 95
Phomopsis silenes, D. Hawksw. & Punith.	①	(xviii)	14	*Silene dioica*	L	C6	120
Phomopsis sp.	①	(xviii)	14	*Adenocarpus foliolosus, Alnus rubra, Avicennia marina, Betula pubescens, Carapa guianensis, Canarium ovatum. Chamaecyparis thyoides, Dipterocarpus tuberculatus, E. grandis, Erythrina cristagalli, Euterpe oleracea, Catostemma fragran, Ceriops decandra, Cecropia sciadophylla, Chlorocardium rodiei, Eperua falcata, Eschweilera sagotiana, Excoecaria agallocha, Fagus, Fraxinus excelsior, Garcinia dulcis, Garcinia*	R, L, X, S, T	C4, C6, C4, C6, C1, C4, C6, C6, C4, C1, C3, C1, C1C6, C2, C3, C1,	8, 9, 12, 13, 14, 17, 18, 20, 22, 29, 31, 32, 33, 34, 36, 42, 43, 46, 50, 55, 56, 60, 61, 62, 69, 76, 77, 83, 86, 87, 92, 95, 99, 103, 110, 122,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				sp., *Licuala ramsayi*, *Pinus*, *R. apiculta halepensis*, *Trachycarpus fortunei*			125, 129, 133, 134, 141, 144, 150, 152, 155, 156, 158, 161, 165, 175, 191, 200, 304, 591
Phomopsis vaccinii, Shear, N.E. Stevens & H.F. Bain	①	(xviii)	14	*C. accuminata*	S	C1	290
Phomopsis vexans, (P.A. Saccardo & P. Syd.) Harter	①	(xviii)	14	*Tabernaemontana heyneana*	B, T, L, F	C1	480
Phomopsis viticola, (P.A. Saccardo) P.A. Saccardo	①	(xviii)	14	Grapevine	N, I, L, L, L, L, L, S, T, L, B	C2	66, 86
Phyllosticta abietis, Bissett & M.E. Palm	①	(v)	6	*Pseudotsuga menziesii*, *Abies grandis*	N	C3	201
Phyllosticta capitalensis, P. Hennings	①	(v)	6	*Coffea arabica*	L, B	C1, C6	77, 132, 158, 590
Phyllosticta cryptomeriae, Kawamura	①	(v)	6	*Taxus chinensis*	B, C, L	C1	5
Phyllosticta dioscoreae, Cooke	①	(v)	6	*Hibiscus rosa-sinensis*	L	C1	492

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Phyllosticta ericarum, P.W. Crous	①	(v)	6	*Saraca asoca*	S, L, B	C1	377
Phyllosticta hymanaeae, (Batista & A.F. Vital) Aa, H.A. van der.	①	(v)	6	*Adenium obesum*	S	C1	516
Phyllosticta ilicina, P.A. Saccardo	①	(v)	6	*Quercus ilex*	L	C6	201
Phyllosticta melochiae, H.S. Yates	①	(v)	6	*Melochia corchorifolia*	L	C1	229
Phyllosticta musicola, F. Stevens & E. Young	①	(v)	6	*Musa acuminata*	L	C1	13
Phyllosticta nobilis, Thümen, F. von.	①	(v)	6	*C. camphora*	L, S	C1	415
Phyllosticta papayae, P.A. Saccardo	①	(v)	6	*Pinus koraiensis*	N	C1	350
Phyllosticta podocarpi, P.W. Crous	①	(v)	6	*Diospyros crassiflora*	O	C6	273
Phyllosticta pyrolae, Ellis & Everh.	①	(v)	6	*Ammophila arenaria*	G	C6	315
Phyllosticta sp.	①	(v)	6	*Abies amabilis, Abies balsamea, Abies concolor, Abies grandis, Abies magnifica, Abies procera, Avicennia marina, BruguieraCeriops decandra, Chamaecyparis thyoide, Coffea arabica, Dalbergia oliveri, Excoecaria agallocha, Lumnitzera racemosa, Pholidota pallida, Guazuma tomentosa, Oregon, Plumeria rubra, Rhizophora apiculata, Sequoia*	R, L, F	C3, C6, C3, C1, C3, C6, C6,	9, 18, 22, 29, 32, 38, 99, 103, 108, 122, 125, 132, 154, 165, 175, 272, 298, 590

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				sempervirens, Shorea siamensis, Tsuga mertensiana, Taxus brevifolia, Protium heptaphyllum, Douglas fir			
Phyllosticta spinarum., (Diedicke) T.R. Nag Raj; M. Morelet	①	(v)	6	*Platycladus orientalis, Cupressus* sp.	L	C3	12, 51, 66, 158
Physalacria sp.	②	(i)	1	*Euterpe oleracea*	L	C4	189
Physalospora sp.	①	(xviii)	47	*Euterpe oleracea, Diospyros crassiflora*	L, O	C4, C6	99, 110,
Physalospora vaccinii, (Shear) Arx & E. Müll.	①	(xviii)	47	*Vaccinium oxycoccus, Diospyros crassiflora*	O	C6	10, 164,
Pichia guilliermondii, L.J. Wickerham	①	(xxvii)	37	*Paris polyphylla, Phragmites australis*	L, R	C6	146, 150, 164, 168,
Pichia sp.	①	(xxvii)	37	*Paris polyphylla, Phragmites australis*	L, R	C6	121, 164,
Pilidiella sp.	①	(xviii)	47	*Melastoma malabathricum*	L, R, S, H	C1	60
Pilidiella wangiensis, P.W. Crous & Summerell	①	(xviii)	47	*Carapa guianensis*	L	C4	408
Pilidium concavum, (Desmazières, J.B.H.J.) (Corda) Höhnel	①	(x)	18	*Fragaria x ananassa*	F	C1	363
Piptochephalis sp.	⑥	(vii)	21	*Plumeria rubra*	L	C1	176
Piptoporus sp.	②	(i)	1	*Theobroma gileri*	S	C4	101

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Piriformospora indica, Sav. Verma, Aj. Varma, Rexer, G. Kost & P. Franken	②	(i)	38	*C. forskohlii.*	R	C1	35, 101, 105, 11, 31, 58, 100, 204
Piriformospora sp.	②	(i)	38	*Prosopis juliflora, Zizyphus nummularia*	R	C1	105
Pithomyces atro-olivaceus, (Cooke & Harkn.) M.B. Ellis	①	(v)	34	*Bauhinia forficata*	O	C6	331
Pithomyces chartarum, (Berkeley & M.A. Curtis) M.B. Ellis	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C6	51
Pithomyces graminicola, R.Y. Roy & B. Rai	①	(v)	34	*Litsea floribunda*	L	C1	77
Pithomyces maydicus, (P.A. Saccardo) M.B. Ellis	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C6	334
Pithomyces sp.	①	(v)	34	*Lumnitzera racemosa, Rhizophora apiculata*	L	C1,	18, 22, 166, 172
Plagiostoma euphorbiae, (Fuckel L.) Fuckel L.	①	(xviii)	14	*Centaurea stoebe*	W	C6	103
Plectophomella sp.	①	(vii)	21	*Eucalyptus*	L	C6, C7	544
Plectosphaera eucalypti, (Cooke & Massee) H.J. Swart	①	(xviii)	32	*Eucalyptus globulus*	S	C4	305

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Plectosphaerella cucumerina, (Lindf.) W. Gams	①	(xviii)	52	*Panax ginseng, Paris polyphylla*	L	C1	3, 58, 95, 143, 161
Plectosphaerella sp.	①	(xviii)	52	*Piper arboretum*	S	C6	79, 163, 246
Plectosporium tabacinum, (J.F.H. Beyma) M.E. Palm, W. Gams & Nirenberg	①	(xviii)	52	*Aphelandra tetragona, Solanum tuberosum*	R	C6	23, 333
Pleospora herbarum, ((Persoon)) Rabenh.	①	(v)	34	*Triticum aestivum, Ephedra nebrodensis, Pinus halepensis,*	S, L	C2	12, 83, 88, 103
Pleospora tarda, E.G. Simmons	①	(v)	34	*Ephedra aphylla*	L, R	C2	589
Pleospora sp.	①	(v)	34	*Piper arboretum, Theobroma kakau, Dendrobium, Artemisia capillaris, Hevea brasiliensis*	S, L, R	C6, C1	46, 57, 78, 79, 88, 93, 95, 122, 145, 146, 167
Pleurocytospora lycii, F. Petrak	①	(xviii)	21	*Arabidopsis thaliana*	S, L	C6	161
Pleurophoma cava, (Schulzer) Boerema, Loer. & Hamers	①	(vii)	21	*Betula platyphylla, Quercus liaotungensis, Ulmus macrocarpa*	L, C	C1	1
Pleurophoma sp.	①	(vii)	21	*Chamaecyparis thyoides*	L	C3	9
Pleurophomopsis, F. Petrak	①	(v)	34	*Alnus glutinosa*	T	C6	419
Pleurophomopsis lignicola, F. Petrak	①	(v)	34	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C6	201
Pleurophomopsis salicina, F. Petrak	①	(v)	34	*Abies alna*	T	C4	334

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pleurophragmium sonum, Sati and Tiwari	①	(xv)	21	*P. scripta, V. canescens*	R	C1	356
Pleuroplaconema sp.	①	(vii)	21	*Sequoia sempervirens*	L	C3	191
Pleurotus nebrodensis, (Inzenga) Quélet, L.	②	(i)	1	*Vitis labrusca*	L	C4	481
Pleurotus ostreatus, (Jacquin) P. Kummer	②	(i)	1	*Theobroma cacao*	C	C4	33
Pochonia boninensis, K. Nonaka, R. Masuma, S. Kaifuchi	①	(xviii)	20	*Paullinia cupana*	R, H	C4	552
Pochonia chlamydosporia, (Goddard) Zare & W. Gams	①	(xviii)	20	*Hordeum vulgare*	R	C3	433
Pochonia suchlasporia, (W. Gams & Dackman) Zare & W. Gams	①	(xviii)	20	*Hevea brasiliensis*	L	C4	167
Pocillopycnis umensis, (Bubák & Vleugel) Dyko & B. Sutton	①	(vii)	21	*Picea abies*	T	C6	201
Podoscypha sp.	②	(i)	48	*T. cacao*	S, F	C4, C2	101, 102
Podosordaria tulasnei, (Nitschke) Dennis	①	(xviii)	47	*Acer truncatum*	L	C1	76, 95
Podospora anserina, (Rabenh.) Niessl	①	(xviii)	39	*Vitis vinifera*	U	C6	6, 88
Podospora coprophila, (E.M. Fries) Niessl	①	(xviii)	39	*Dactylis glomerata*	G	C6	315

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Podospora decipiens, (G. Winter) Niessl	①	(xviii)	39	*Dactylis glomerata*	G	C6	315
Podospora fimbriata, (A. Bayer) Cain	①	(xviii)	39	*Triticum aestivum*	O	C6	311
Podospora glutinans, (Cain) Cain	①	(xviii)	39	*Triticum aestivum*	O	C6	311
Podospora setosa, (G. Winter) Niessl	①	(xviii)	39	*C. amoena*	R	C1	411
Podospora sp.	①	(xviii)	39	*Changnienia amoena*	M	C1	58, 60, 87, 122
Podospora tetraspora, (G. Winter) Cain	①	(xviii)	39	*Ulex europaeus.*	X	C6	184
Podospospora sp.	①	(xviii)	39	*A. thaliana*	L	C6	58
Polyporus arcularius, (Batsch) E.M. Fries	②	(i)	48	*Abies pindrow, Taxus globosa*	T	C4, C4, C2	50, 74
Polyporus lepideus, E.M. Fries	②	(i)	48	*Triticum aestivum*	O	C6	311
Polyscytalum fecundissimum, Riess	①	(xviii)	47	Milfoil	S, L	C3	385
Porostereum spadiceum, (Persoon) Hjortstam & Ryvarden	②	(i)	48	Soybean	R	C1	579
Pragmopycnis sp.	①	(x)	18	*Pinus resinosa*	N	C3	201
Preussia aemulans, (Rehm) Arx	①	(v)	34	*C. acuminata*	S	C1	290
Preussia africana, Arenal, Platas & Peláez	②	(i)	48	*Viburnum tinus*	L	C2,	46

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Preussia australis, (Spegazzini, C.) Arx	①	(v)	34	*Dactylis glomerata, Ammophila arenaria, Elymus farctus, Holcus lanatus*	G	C6	315
Preussia intermedia, (Auerswald) S. Ahmad	①	(v)	34	*Populus tremuloides*	S, L	C3	82
Preussia isomera, Cain	①	(v)	34	*Holcus lanatus*	G	C6	315
Preussia mediterranea, Arenal, Platas & Peláez	①	(v)	34	*Quercus ilex, Cistus albidus, Quercus suber, Alnus glutinosa, Daphne gnidium*	L	C4	40, 177
Preussia minima, (Auerswald) Arx	①	(v)	34	*Betula platyphylla, Quercus liaotungensis, Ulmus macrocarpa*	L, C	C1, C4	1, 154
Preussia minimoides, (S.I. Ahmed & Cain) Valldos. & Guarro	①	(v)	34	*Prunus lusitanica*	L	C2	290
Preussia obscurans	①	(v)	34	*Laguncularia racemose*	L	C3	154
Preussia pascua, (Niessl) Valldos. & Guarro	①	(v)	34	Not specified	R	C6	300
Preussia similis, (R.S. Khan & Cain) Arenal	①	(v)	34	*Cupressus arizonica*	L	C3	413
Preussia sp.	①	(v)	34	*Aquilaria sinensis, Acer truncatum, Pinus halepensis,*	L	C6	4, 46, 58, 76, 82, 83, 159
Pringsheimia smilacis, E. Müll.	①	(v)	15	*Eucalyptus globulus*	V	C6	479

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Prosthecium platanoidis, (Persoon) M.E. Barr	①	(xviii)	14	*Hymenoscyphus fraxineus*	U	C6	567
Prosthecium pyriforme, Jaklitsch & Voglmayr	①	(xviii)	14	*F. excelsior*	U, B	C6	464
Psathyrella candolleana, (Fries) Maire	②	(i)	1	*Dysosma versipellis*	M	C1	572
Psathyrella sp., E.M. Fries ex Quél	②	(i)	1	*Wullschlaegelia aphylla*	R, M	C6	122, 177
Pseudeurotion sp.	①	(v)	8	*Eugenia aff. bimarginata*	L	C3	443
Pseudeurotium bakeri, C. Booth	①	(iii)	21	*Dactylis glomerata, Ulva lacuta*	G, A	C6	49, 93, 422
Pseudobeltrania sp.	①	(xviii)	47	*Bauhinia purpurea*	L	C1	325
Pseudocercospora basitruncata, P.W. Crous	①	(v)	8	*Luma apiculata*	L	C7	206
Pseudocercospora crystallina, P.W. Crous & M.J. Wingf.	①	(v)	8	*E. bicostata*	L	C2	337
Pseudocercospora elaeodendri, (G.P. Agarwal & Hasija) Deighton	①	(v)	8	*Fagopyrum tataricum*	S	C1	401
Pseudocercospora humuli (Hori) Y.L. Guo & X.J. Liu	①	(v)	8	*Dysosma versipellis*	S	C1	572
Pseudocercospora kaki, Goh & W.H. Hsieh	①	(v)	8	Tea plants	L	C1	432

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pseudocercospora nephrolepidicola, P.W. Crous & R.G. Shivas	①	(v)	8	*Nephrolepis falcata*	L	C7	121
Pseudocercospora norchiensis, P.W. Crous	①	(v)	8	*Vellozia gigantea*	R, L	C4	477
Pseudocercospora sp.	①	(v)	8	*P. perrottettii, Tapirira guianensis, Terminalia catappa*	L, S, F, Z, S, B, R, R B	C4	478, 60, 76
Pseudocercosporella sp.	①	(v)	8	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C, W	C5	76
Pseudoeurotium ovalis	①	(vii)	21	*Chamaecyparis thyoides, Ulva lactuca*	L	C3, C6	9
Pseudofusarium purpureum, T. Matsushima	①	(xviii)	20	*Theobroma cacao*	C	C4	33
Pseudofusicoccum adansoniae, Pavlic, T.I. Burgess & M.J. Wingfield	①	(v)	6	*Eucalyptus* sp.	C	C7	407
Pseudofusicoccum ardesiacum, Pavlic, T.I. Burgess & M.J. Wingfield	①	(v)	6	*Jatropha podagrica*	L, F	C1	124
Pseudofusicoccum kimberleyense, Pavlic, T.I. Burgess & M.J. Wingfield	①	(v)	6	*Millingtoniahortensis, Tabebuia* sp.	L	C1	427
Pseudofusicoccum stromaticum, (Mohali, Slippers & M.J. Wingfield) Mohali, Slippers & M.J. Wingfield	①	(v)	6	*Eucalyptus* sp.	C	C7	89

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pseudofusicoccum violaceum, Mehl & Slippers	①	(v)	6	*T. cordifolia*	O	C1	415
Pseudogymnoascus roseus, A. Raillo.	①	(v)	8	*C. amoena*, *Calluna vulgaris*	R	C1	411
Pseudogymnoascus sp.	①	(v)	21	*Changnienia amoena*	M	C1, C3	122, 202
Pseudolagarobasidium acaciicola, Ginns, J.	②	(i)	48	*Bruguiera gymnorrhiza*.	O	C1	550
Pseudolagarobasidium sp.	②	(i)	48	*Zingiber officinale*	M	C1	345
Pseudomassaria sp.	①	(xviii)	47	*Salvadora oleoides*	NS	C1	158
Pseudoplectania sp.	①	(xv)	31	*Pinus wallichiana*	S, N	C1	323
Pseudoseptoria obscura, W. Quaedvlieg, G.J.M. Verkley & P.W. Crous	①	(vii)	21	*Bromus*	S	C3	512
Pseudospiropes sp.	①	(x)	18	*Livistona chinensis*	L	C1	379
Pseudovalsa lanciformis, (E.M. Fries) Ces. & De Notaris	①	(xviii)	14	*Betula pendula*	T	C6	201
Pseudozyma aphidis, (Henninger & Windisch) Boekhout	②	(xxiii)	55	*Ammophila arenaria*	G	C6	315
Pseudozyma flocculosa, (Traquair, L.A. Shaw & Jarvis) Boekhout, T. & Traquair	②	(xxiii)	55	Grass	U	C3	78
Pseudozyma sp.	②	(xxiii)	55	*Eugenia aff. bimarginata*, *Myrciaria floribunda*, and *Alchornea*	L	C3	46

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
				castaneifolia			
Psilocybe sp.	②	(i)	1	*Theobroma gileri*	S, F	C4	101
Punctularia sp.	②	(i)	12	*Annona squamosa*	L, T, B, R	C1	101
Punctularia strigosozonata, (Schwein.) P.H.B. Talbot	②	(i)	12	*Elaeis ma*	L, L	C1	86
Purpureocillium lilacinum, (Thom) Luangsa-ard, Houbraken, Hywel-Jones & Samson	①	(xviii)	20	*Tephrosia purpurea, Kandelia candel*	R	C1	473
Purpureocillium sp.	①	(xviii)	20	*Vanilla planifolia*	F, L	C6	363
Pycnidiella resinae, (Ehrenb.) (Corda) Höhnel	①	(x)	21	*Broussonetia papyrifera, Celtis occidentalis and Ligustrum lucidum*	L, L	C4	328
Pycnidiophora dispersa, Clum, F.M.	①	(v)	34	*Phragmites australis*	L R	C6	146
Pycnidiophora sp.	①	(v)	34	*Phragmites australis*	L R	C6	146
Pycnoporus cinnabarinus, (Jacq.) P. Karst.	②	(i)	48	*Theobroma gilero*	S	C4	102
Pycnoporus sanguineus, (L.) Murrill	②	(i)	48	*Eucalyptus globulus*	S	C4	305
Pycnoporus sp.	②	(i)	48	*Theobroma gilero, T. cacao*	S, F	C4, C4, C2	101
Pyrenochaeta cava, (Schulzer) Gruyter, J. de; M.M. Aveskamp; G.J.M. Verkley	①	(v)	34	*Hydrastis canadensis, Q. robur*	N	C6	268

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pyrenochaeta corni, (Bat. & A.F. Vital) Boerema, Loer. & Hamers	①	(v)	34	*F. excelsior*	U, B	C1	464
Pyrenochaeta lycopersici, R.W. Schneid. & Gerlach	①	(v)	34	*Solarium lycopersicum*	R	C3	163
Pyrenochaeta sp.	①	(v)	34	*Sequoia sempervirens*	L, F	C1	12, 60, 82, 86, 99, 150
Pyrenochaeta terrestris, Gorenz, J.C. Walker & Larson	①	(v)	34	*Mimosops elengi*	L	C4	82
Pyrenopeziza sp.	①	(x)	18	*Pinus tabulaeformis*	W	C1	581
Pyrenophora leucospermi, P.W. Crous & L. Swart	①	(iii)	34	*Arabidopsis thaliana*	L, S, L	C6	58
Pyrenophora sp.	①	(iii)	34	*V. lychnitis*	H	C6	82
Pyrenophora teres, C. Drechsler	①	(iii)	34	*Gossypium hirsutum*	L	C3	46
Pyrenophora tritici-repentis, C. Drechsler	①	(iii)	34	*Triticum aestivum*	O	C6	12, 82
Pyricularia costina, Sarbajna	①	(xviii)	21	*Alpinia malaccensis*, *Hornstedtia conica*	O	C6	420
Pyricularia sp.	①	(xviii)	21	*Rhododendron*	S, L	C1	277
Pyriculariopsis parasitica, M.B. Ellis	①	(vii)	21	*Musa acuminata*	S	C1	17
Pyriculariopsis sp.	①	(vii)	21	*Musa acuminata*	S	C1	99

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Pyrigemmula aurantiaca, D. Magyar & R. Shoemaker	①	(xviii)	9	*Vitis vinifera, Pyrus communis, Mespilus germanica, Platanus hybrida, Elaeagnus angustifolia*	B	C6	549
Pyronema sp.	①	(xv)	31	*Pinus halepensis*	T, N	C6	83, 590
Pythium aphanidermatum (Edson) H.M. Fitzpatrick	⑤	(xiii)	60	*Gaultheria fragrantissima*	T	C1	575
Pythium angustatum, F.K. Jr. Sparrow	⑤	(xiii)	60	*Eichhornia crassipes*	L, L	C1	382
Pythium elongatum, V.D. Matthews	⑤	(xiii)	60	*Eichhornia crassipes*	L, L	C1	382
Pythium intermedium, A. de Bary	⑤	(xiii)	60	*Artemisia nilagirica*	S, R, L	C1	570
Pythium myriotylum, C. Drechsler	⑤	(xiii)	60	*Soyabean*	R	##	514
Pythium sp.	⑤	(xiii)	60	*Phoenix dactylifera*	L, S	C2	12
Pythium ultimum, A.H. Trow	⑤	(xiii)	60	*Eichhornia crassipes*	L, L	C1	382
Quambalaria cyanescens, Z.W. de Beer, Begerow & R. Bauer	②	(xxxii)	84	*Prunus avium*	F	C1	494
Rachicladosporium sp.	①	(v)	8	*Pinus wallichiana*	S, N	C1	323
Ramichloridium anceps, G.S. de Hoog	①	(v)	8	*Q. robur*	U	C4	37
Ramichloridium apiculatum, G.S. de Hoog; E.J. Hermanides-Nijhof	①	(v)	8	*Phragmites australis*	R	C6	146
Ramichloridium cerophilum, G.S. de Hoog	①	(v)	8	*Citrus limon*	L	C6	343

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Ramichloridium schulzeri, G.S. de Hoog	①	(v)	8	*Ulex europaeus*	X	C6	184
Ramichloridium sp.	①	(v)	8	*Goupia glabra*	S	C6	20
Ramichloridium subulatum, G.S. de Hoog	①	(v)	8	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C4	334
Raperia sp.	①	(vi)	17	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Readeriella considenianae, P.W. Crous; Braun, U	①	(v)	8	*E. stellulata*	L	C7	337
Rectifusarium ventricosum, (Appel & Wollenweber) L. Lombard & P.W. Crous	①	(xviii)	20	*Gaultheria fragrantissima*	T	C1	575
Resinicium sp.	②	(i)	19	*Wullschlaegelia aphylla*	R, M	C6	122
Retroconis sp., G.S. de Hoog; Batenburg-van der Vegte, W.H.	①	(vii)	21	*Gossypium hirsutum*	L, F	C3	47
Rhabdocline parkeri, Sherwood, J.K. Stone & G.C. Carroll	①	(x)	18	*Douglas fir needles, Pseudotsuga menziesii*	N	C3	11, 298
Rhexocercosporidium sp.	①	(x)	18	*Panax quinquefolium*	R	C1	327
Rhinocladiella atrovirens, Nannfeldt	①	(vi)	10	*Fagus sylvatica, Quercus*	X	C2	66
Rhinocladiella similis, de Hoog & Caligiorne	①	(vi)	10	*Chenopodium quinoa*	R	C6	386

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Rhinocladiella sp.	①	(vi)	10	*Cordemoya integrifolia, Tripterygium wilfordii*	L	C1	24, 12, 112, 51, 52, 158
Rhizoctonia bataticola, E.J. Butler	②	(i)	7	*Coleus forskohlii*	S, L	C1	52
Rhizoctonia butinii, Oberw., R. Bauer, Garnica & R. Kirschner	②	(i)	7	*Fragaria vesca*	R	C6	467
Rhizoctonia praticola, H.K. Saksena, O. Vaartaja	②	(i)	7	Grass	R	C3	78
Rhizoctonia solani, J.G. Kühn	②	(i)	7	*Brassica napus, Taxus mairei*	S	C1	21, 66, 148
Rhizoctonia sp.	②	(i)	7	*Canarium ovatum., Cordemoya integrifolia, Casia absia*	L, S	C2, C1	24, 57, 150, 156, 158, 161, 384
Rhizomucor sp.	⑧	(xxi)	26	*A. sinensis*	V	C1	164
Rhizomucor variabilis, R.Y. Zheng, G.Q. Chen	⑧	(xxi)	26	*A. sinensis*	V	C1	164
Rhizophydium globosum, L. Rabenhorst	③	(iv)	11	*Submerged aquatic plant*	R	C6	285
Rhizopus microsporus, P. van.Tieghem	⑧	(vii)	26	*Gossypium* spp.	S, R	C4	73, 90
Rhizopus nigricans, C.G. Ehrenberg,	⑧	(vii)	26	*Acalypha indica*	S, L, R, L	C1	135, 148
Rhizopus oryzae, Went & Prinsen Geerligs	⑧	(vii)	26	*Brassica napus, Iris germanica*	S, R, L	C1	55, 148

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Rhizopus sp.	⑧	(vii)	26	*Writhtia tintorica*	L	C1	80, 90, 125, 161
Rhizopus stolonifer, P. Vuillemin	⑧	(vii)	26	*Boswellia sacra*	S, L	C1	73, 148
Rhizopycnis sp.	①	(v)	21	*Gossypium hirsutum*	L, F	C3	78
Rhizopycnis vagum, D.F. Farr	①	(v)	21	*Theobroma cacao*	C	C4	33
Rhizoscyphus sp.	①	(x)	18	Bryophytes	O	C5	308
Rhizosphaera kalkhoffii, F. Bubák	①	(v)	34	*Picea sitchensis*	L	C6	201
Rhizosphaera macrospora, F. Gourbière, M. Morelet	①	(v)	34	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C, W	C3	121
Rhizosphaera sp.	①	(v)	34	*Rhododendron*	S, L	C5	99, 121
Rhodosporidium fluviale, J.W. Fell, C.P. Kurtzman, A.S. Tallman, J.D. Buck	②	(xi)	41	Geumsan-gun	Z	C1	88
Rhodosporidium kratochvilovae, M. Hamamoto.; J. Sugiyama; K. Komagata	②	(xi)	41	*Triticum aestivum*	O	C6	311
Rhodotorula aurantiaca, H.A. Diddens, J. Lodder	②	(xi)	41	*Coffea arabica*	L	C6	47
Rhodotorula bacarum, Rodrigues de Miranda & Weijman	②	(xi)	41	*Dactylis glomerate*	G	C6	315
Rhodotorula glutinis, F.C. Harrison	②	(xi)	41	*Calotropis procera*	L	C4	73, 117

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Rhodotorula graminis, M.E. Di Menna,	②	(xi)	41	Grass, *Citrus* sp., *Populus*	L	C7, C1, C3	258
Rhodotorula ingeniosa, J.A. von Arx; A.C.M. Weijman,	②	(xi)	41	*Rosa canina*, *Prunus domestica*	F	C6	429
Rhodotorula minuta, F.C. Harrison	②	(xi)	41	*Pinus sylvestris*	D	C6	185
Rhodotorula mucilaginosa, F.C. Harrison	②	(xi)	41	*Rosa canina*, *Prunus domestica*, *Quercus suber*, *Ceratonia siliqua*, *Populus*, *Polysiphonia lanosa*	F	C3, C6	49, 132
Rhodotorula pinicola, J.H. Zhao, F.Y. Bai, L.D. Guo	②	(xi)	41	*Pinus tabulaeformis*, *Actinidia deliciosa*, *Hevea brasiliensis*	T	C1	167, 542
Rhodotorula slooffiae, E.K. Novák, G. Vörös-Felkai	②	(xi)	41	*Holcus lanatus*	G	C6	315
Rhodotorula sp.	②	(xi)	41	*Rosa canina*, *Prunus domestica*	F	C4	322
Rhodotorula vanillica, J.P. Sampaio	②	(xi)	41	*Rosa canina*, *Prunus domestica*	F	C1	429
Rhytidhysteron rufulum, C. Spegazzini	①	(v)	83	*Eugenia aff. bimarginata*	L	C3	429
Rhytisma punctatum, E.M. Fries	①	(x)	35	*Acer macrophyllum*	L	C3	193
Rigidoporus sp.	②	(i)	48	N.S.	R	C1	578
Robillarda sessilis, P.A. Saccardo	①	(xviii)	47	*Mangifera indica*	L	C1	12
Rosellinia corticium, P.A. Saccardo	①	(xviii)	47	*Eleusine coracana*	H, R	C3	400, 589
Rosellinia xylariispora, P.A. Saccardo	①	(xviii)	47	*Eucalyptus nitens*	O	C7	436
Rosulomyces sp.	①	(vii)	21	*E. grandis*	L	C2	188

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Rubrinectria olivacea, Rossman & Samuels	①	(xviii)	20	*Hevea brasiliensis*	L	C4	167
Russula lepida, E.M. Fries	②	(i)	36	*Dipodium variegatum*	R	C7	431
Russula occidentalis, R. Singer	②	(i)	36	*Dipodium variegatum*	R	C7	431
Russula solaris, Ferdinandsen & Winge	②	(i)	36	*Dipodium variegatum*	R	C7	431
Russula sp.	②	(i)	36	*Erythrorchis cassythoides*	P	C7	431
Saccharicola bicolor, O. Eriksson; D.L. Hawksworth	①	(v)	34	*Glycine max*	L	C4	129
Sagenomella sp.	①	(vi)	17	*Dactylis glomerate*	G	C6	315
Sarcosoma sp.	①	(xv)	31	*Pinus tabulaeformis*	W	C1	581
Sarea difformis, E.M. Fries	①	(ix)	82	*Juniperus occidentalis*	L	C3	320
Sarea sp.	①	(ix)	82	*Ammophila arenaria*	G	C6	315
Sarocladium bacillisporum, Summerbell	①	(xviii)	20	*Coffea arabica*	L	C6	132
Sarocladium kiliense, (Grütz) Summerb.	①	(xviii)	20	*Triticum aestivum*	O	C6	311
Sarocladium spinificis, Y.H. Ye & R. Kirschner	①	(xviii)	20	*Spinifex littoreu*	S	C1	177
Sarocladium strictum, (W. Gams) Summerb.	①	(xviii)	20	*Arabidopsis thaliana*	L, S, L	C6	58, 494
Sarocladium zeae, (W. Gams & D.R. Sumner) Summerb.	①	(xviii)	20	*Zea mays*	L	C1	320

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Scedosporium apiospermum, P.A. Saccardo ex Castell. & Chalm.	①	(xviii)	24	*Bauhinia guianensis*	O	C4	477
Scedosporium prolificans, (Hennebert & B.G. Desai) E. Guého & de Hoog	①	(xviii)	24	*Pinus ponderosa*	L	C3	413
Scedosporium sp.	①	(xviii)	24	*Bauhinia guianensis*	O	C4	477
Schizophyllum commune, E.M. Fries	②	(i)	1	*Cannabis sativa, Theobroma gileri*	T, S	C1, C4	50, 101, 102
Schizophyllum sp.	②	(i)	1	*Dendrobium, T. gileri*	R, S, L	C1, C4	101, 122
Schizothecium inaequale, (Cain) N. Lundq.	①	(xviii)	39	*Gossypium hirsutum*	L, F	C3	47
Schizothecium sp.	①	(xviii)	39	*Elymus farctus*	G	C6	315
Scleroconidioma sphagnicola, Tsuneda, Currah & Thormann	①	(iii)	21	*Cedrus deodara*	T	C1	50
Sclerophoma pityophila, (A.C.J. Corda) Höhnel	①	(v)	15	*Pinus sylvestris*	C	C6	418
Sclerostagonospora opuntiae, (Ellis & Everh.) Huhndorf	①	(v)	15	*Anathallis sclerophylla*	L, S, R	C4	435
Sclerostagonospora sp.	①	(v)	34	*Acer truncatum*	L	C3	76, 82
Sclerotina sp.	①	(x)	18	*Cordemoya integrifolia, Eulophia alta*	L, R	C1	24, 88, 122
Sclerotinia sclerotiorum, (Libert, M.A.) de Bary	①	(x)	18	*Triticum aestivum, Vitis vinifera*	O	C2, C3, C3	66, 205

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Scolecobasidium constrictum, E.V. Abbott	①	(vii)	21	*Phoradendron perrottettii, Tapirira guianensis*	L, S	C6	334
Scolecobasidium humicola, G.L. Barron & L.V. Busch	①	(vii)	21	Tomato	R	C4	280
Scolecobasidium sp.	①	(vii)	21	*Cordemoya integrifolia*	L	C4	24
Scolecobasidium tshawytschae, (Doty & D.W. Slater) McGinnis & Ajello	①	(vii)	21	Soybean	R	C1	262
Scoleconectria cucurbitula, (Tode) C. Booth	①	(xviii)	20	*Pinus nigra*	N	C2	456
Scolecosporiella sp.	①	(v)	34	*Chamaecyparis lawsoniana*	L	C1	201
Scopulariopsis brevicaulis, G. Bainier	①	(xviii)	24	*Glycine max, Zea mays, Espeletia*	L, S, R	C3, C6, C1	548
Scopulariopsis canadensis, F.J. Morton & G. Sm.	①	(xviii)	24	*Butea monosperma*	R, S, L, L, Z, F	C4	51
Scopulariopsis costantini	①	(xviii)	24	*Ventilago madraspatana*	L, B, R	C1	141
Scopulariopsis flava, (Sopp) F.J. Morton & G. Sm.	①	(xviii)	24	Medicinal plant	S, R	C1	483
Scopulariopsis hibernica, A. Mangan	①	(xviii)	24	*Alpinia officinarum*	M	C1	126
Scopulariopsis sp.	①	(xviii)	24	*Cladonia coniocraea, Dermatocarpon miniatum, Melanelia sorediata, Parmelia* sp.	O	C1	109, 141

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Scopulariopsis sphaerospora, F. Zach	①	(xviii)	24	*Avicennia schaueriana*	L	C4	154
Scopuloides hydnoides, (Cooke & Massee) Hjortstam & Ryvarden	②	(i)	48	*Theobroma gilero*	S	C4	102
Scutellinia sp.	①	(xv)	31	*Betula platyphylla, Quercus liaotungensis, Ulmus macrocarpa*	L, C	C1	100
Scytalidium aff. acidophilum, Sigler & J.W. Carmich.	①	(x)	18	*Broussonetia papyrifera, Celtis occidentalis and Ligustrum lucidum*	L, L	C4	90
Scytalidium lignicola, A. Pesante	①	(x)	18	*Quercus robur*	U, D, L	C6	37
Scytalidium sp.	①	(x)	18	*Cymbidium* spp., *Plumeria rubra*	L, R	C1, C1	17, 32, 122
Scytalidium thermophilum, (Cooney & R. Emers.) Austwick	①	(x)	18	*Boswellia sacra*	S, X	C1	299
Sebacina sp.	②	(i)	38	*Acianthus, Caladenia, Alpinia officinarum, Bletilla ochracea, Cyrtostylis, Elythranthera, Eriochilus, Glossodia, Leporella, Platanthera obtusata, Microtis*	M	C1	98
Sebacina vermifera, Oberw.	②	(i)	38	*Alpinia officinarum, Nicotiana attenuata, Caladenia* spp., *Glossodia major, Elythranthera brunonis, Elythranthera emarginata, Eriochilus cucullatus*	M	C1	101

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Seimatoantlerium nepalense, Bashyal, J. Yi Li, Strobel, W.M. Hess & Sidhu	①	(xviii)	47	*Taxus wallichiana*	B	C3, C1	125, 199
Seimatoantlerium tepuiense, Strobel, E.J. Ford, J. Yi Li, J. Sears, Sidhu & W.M. Hess	①	(xviii)	47	*Maguireothamnus speciosus*	B	C4	125, 199, 205
Seimatosporium rhododendri, (Schwein.) Piroz. & Shoemaker	①	(xviii)	66	*Rhododendron*	L	C5	277
Seimatosporium sp.	①	(xviii)	66	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C, W	C6	121
Seimatosporium walkeri, (H.J. Swart & M.A. Will.) P.A. Barber & P.W. Crous	①	(xviii)	66	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis.*	C, W	C5	121
Seiridium ceratosporum, (De Notaris) T.R. Nag Raj	①	(xviii)	66	*R. stylosa and R. mucronate.*	L, R	C1	509
Seiridium juniperi, (Allesch.) B. Sutton	①	(xviii)	66	*Sequoia sempervirens*	L, F	C3	191
Seiridium sp.	①	(xviii)	66	*C. viminea, E. adenophorum*	R	C1	458
Selenophoma sp.	①	(v)	15	*Avicennia marina*	L	C1	18, 66
Septoria alni, P.A. Saccardo	①	(v)	8	*Alnus rubra*	L	C3	455
Septoria canadensis, C. H. Peck,	①	(v)	8	*Acer truncatum*	L	C1	76

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Septoria cretae, W. Quaedvlieg, G.J.M. Verkley & P.W. Crous	①	(v)	8	*Fraxinus ornus*	L	C3	589
Septoria lychnidis, J.B.H.J. Desmazières	①	(v)	8	*Silene dioica*	L	C6	120
Septoria pachyspora, J.B. Ellis ; E.W. Holway,	①	(v)	8	*A. marina*	L	C6	398
Septoria sp.	①	(v)	8	*Alnus, Rhododendron*	S, L	C6	29, 159, 161
Septoria tritici, Roberge ex J.B.H.J. Desmazières,	①	(v)	8	*Triticum aestivum*	G	C4	46
Septoriella phragmitis, C.A.J.A. Oudemans,	①	(v)	34	*Bromus*	L	C6	512
Setophoma terrestris, (H.N. Hansen) J. de Gruyter, Aveskamp & G.J.M. Verkley	①	(v)	34	*Panax ginseng*	R	C1	149
Setosphaeria rostrata, K.J. Leonard	①	(v)	34	*Nymphaea nouchali*	Z	C1	324
Setosynnema isthomosporum, Sati and Tiwari	①	(vii)	21	*C. viminea, P. scripta, R. hastatus*	R	C1	356
Shiraia sp.	①	(v)	34	*Huperzia serrata*	R	C1	263
Simplicillium coffeanum, A. A. M. Gomes & O. L. Pereira	①	(xviii)	20	*Coffea arabica*	B	C4	592
Simplicillium sp.	①	(xviii)	20	*Coffea arabica*	S, L, F	C4	462

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Simplicillium lamellicola, (F.E.V. Sm.) Zare & W. Gams	①	(xviii)	20	*Brassica napus*	S	C1	178
Sirococcus clavigignenti-juglandacearum, V.M.G. Nair, Kostichka & J.E. Kuntz	①	(xviii)	14	*Acer truncatum*	L	C1	76
Sirococcus conigenus, ((Persoon)) P.F. Cannon & Minter	①	(xviii)	14	*Potentilla fulgens*	S	C1	247
Sirodesmium sp.	①	(vi)	10	*Dendrobium, Impatiens chinensis, Ottelia acuminata*	L, S	C1	176
Sirodothis sp.	①	(x)	18	*Larix decidua*	C	C1	419
Sistotrema brinkmannii, (Bres.) J. Erikss.	②	(i)	7	*Pinus densiflora*	N	C6	2
Sistotrema sp.	②	(i)	7	*Piperia unalascensis*	R	C1	2
Sordaria destruens, (Shear) Hawker	①	(xviii)	39	*H. antidyscenterica*	B	C1	396
Sordaria fimicola, (Roberge ex Desmazières, J.B.H.J.) Ces. & De Notaris.	①	(xviii)	39	*Ulex europaeus, Pinus halepensis, Terminalia ballarica*	S	C6	58, 83, 88, 93, 384
Sordaria humana, (Fuckel L.) G. Winte	①	(xviii)	39	*Cedrus deodara*	N.S.	C1	50, 93
Sordaria lappae, Potebnia	①	(xviii)	39	*Cupressus arizonica*	L	C3	413, 558
Sordaria macrospora, Auerswald	①	(xviii)	39	*Ammophila arenaria*	G	C6	315
Sordaria prolifica, Cailleux	①	(xviii)	39	*Avicennia schaueriana*	L	C4	154

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Sordaria sp.	①	(xviii)	39	*Chamaecyparis thyoides, Eucomina ulmoides, E. nitens, E. grandis, Teucrium scorodonia*	L, S, X	C3, C2	9, 10, 66, 77, 78, 85, 90, 161
Sordaria superba, De Notarisaris	①	(xviii)	39	*Artemisia annua*	L	C1	50
Sordaria tomento-alba, Cailleux	①	(xviii)	39	*Sordaria tomento-alba*	O	C1	145
Spegazzinia sp.	①	(v)	34	*Bauhinia forficata*	O	C4	188
Spegazzinia tessarthra, P.A. Saccardo	①	(v)	34	*E. nitens*	X	C2	331
Spencermartinsia sp.	①	(v)	6	*Paris polyphylla*	M	C1	89
Spencermartinsia uruguayensis, C.A. Pérez, Blanchette, Slippers & M.J. Wingfield	①	(v)	6	*Eucalyptus*	L, L, T	C3	89
Spencermartinsia viticola, A.J.L. Phillips, A. Alves & P.W. Crous	①	(v)	6	*Eucalyptus*	L, L, T	C3	89
Sphacelia typhina, P.A. Saccardo	①	(xviii)	20	*Festuca arundinacea*	G	C3	272
Sphaceloma sp.	①	(v)	27	*Rhododendron*	S, L	C6	277
Sphaeriothyrium filicinum, F. Bubák	①	(vii)	21	*Brabejum stellatifolium*	S	C6	93
Sphaeropsis sapinea, Dyko & B. Sutton	①	(v)	6	*Pinus*	N	C6	279
Sphaeropsis sp.	①	(v)	6	*Rhododendron*	S, L	C4	277
Sphaeropsis variabilis, F.J.J. Van der Walt, Slippers & G.J. Marais	①	(v)	6	*Acacia karroo*	C	C2	460

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Sphaeropsis viticola, Cooke	①	(v)	6	*Acacia karroo*	C	C2	460
Sphaerosporium acacia	①	(vii)	21	*Pachira insignis*	B	C4	390
Sphaerosporium equinum, J.L. Crane, J.D. Schoknecht	①	(vii)	21	*Rhizophora mangle*	L	C1	154
Sphaerosporium sp.	①	(vii)	21	*Rhizophora mangle*	L	C4	154
Sphaerulina rubi, Demaree, J.B.; Wilcox, M.S.	①	(v)	8	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Sphaerulina sp.	①	(v)	8	*E. nitens*	X	C2	188
Spicaria sp.	①	(vii)	21	*Cephalotaxus mannii*	B	C1	363
Spiropes sp.	①	(vii)	21	*Caesalpinia sappan, Alternanthera sessil, Sapindus laurifolius, Basala alba* and *Acalypha indica*	R	C1	99
Spirosphaera cupreorufescens, H. Voglmayr	①	(x)	18	Submerged aquatic plant	R	C3	285
Splanchnonema pupula, O. Kuntze	①	(v)	34	*Acer pseudoplatanus*	C	C6	418
Sporidesmium sp.	①	(v)	34	*Chamaecyparis thyoides*	L	C3	9
Sporidiobolus pararoseus, J.W. Fell, A. Statzell Tallman	②	(xi)	41	*Brassica napus*	S	C1	178
Sporidiobolus sp.	②	(xi)	41	*Brassica napus*	S	C1	178

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Sporisporium everhartii, (Ellis & Galloway) M. Piepenbring	②	(xxiii)	55	Grass	U	C3	78
Sporobolomyces gracilis, Derx, H.G.	②	(xi)	41	*Phragmites australis*	L	C3	389
Sporobolomyces jilinensis, F.Y. Bai & Q.M. Wang	②	(xi)	41	*Brassica napus*	S	C6	178
Sporobolomyces linderae, Nakase, M. Takashima & Hamamoto	②	(xi)	41	*Brassica napus*	S	C1	178
Sporobolomyces oryzicola, Nakase & M. Suzuki	②	(xi)	41	Soybean	L	C1	322
Sporobolomyces roseus, Kluyver & C.B. Niel	②	(xi)	41	*Rosa canina*, *Prunus domestica*	F	C3	429
Sporobolomyces sp.	②	(xi)	41	*Soybean*, *Malus domestica*	L	C6	121
Sporobolomyces yunnanensis, F.Y. Bai, M. Takashima, Hamamoto & Nakase	②	(xi)	41	*Phragmites australis*	L	C6	389
Sporormia lignicola, W. Phillips & Plowright	①	(v)	34	*Taxus globosa*	O	C3	74
Sporormia minima, B. Auerswald	①	(v)	34	*T. wallichiana*, *Avicennia marina*, *A. officinalis*, *Bruguiera cylindrica*, *Ceriops decandra*, *Excoecaria agallocha*, *Lumnitzera racemosa*	S	C1	205, 230
Sporormia subticinensis, V. Mouton	①	(v)	34	*Holcus lanatus*	G	C6	315

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Sporormiella muskokensis, S.I. Ahmed, R.F. Cain	①	(v)	34	*Xanthoria mandschurica*	O	C1	109
Sporormiella australis, S.I. Ahmed & Cain	①	(v)	34	*Ulex europaeus*	S	C6	12
Sporormiella intermedia, S.I. Ahmed & Cain ex Kobayasi	①	(v)	34	*Calotropis gigantea*	L	C1	38, 66, 77
Sporormiella minima, S.I. Ahmed & Cain	①	(v)	34	*Rhizophora apiculata, Ulex europaeus*	S, X	C6, C1,	18, 22, 125, 109
Sporormiella minimoides, S.I. Ahmed & Cain	①	(v)	34	*Vitis vinifera, Ulex europaeus*	S, X	C6	282, 547
Sporormiella sp.	①	(v)	34	*Plumeria rubra*	L	C1	32, 57, 72
Sporothrix sp.	①	(xviii)	28	*Catostemma fragrans, Rhizophora apiculata, Ceriops decandra, Sambucus nigra*	R, L, B	C2, C1	18, 20, 22, 109
Stachybotrys atra, A.C.J. Corda	①	(xviii)	20	*Tinospora cordifolia*	L	C1	416
Stachybotrys bisbyi, G.L. Barron	①	(xviii)	20	*Oryza granulate*	S	C1	78
Stachybotrys chartarum, S.J. Hughes	①	(xviii)	20	*Polygala arvensis, Polygala arvensis*	R	C6	300, 384
Stachybotrys cylindrospora, C.N. Jensen,	①	(xviii)	20	*Panax ginseng*	Z	C1	70
Stachybotrys elegans, W. Gams	①	(xviii)	20	*Phragmites australis*	R	C6	17

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Stachybotrys kampalensis, C.G. Hansford	①	(xviii)	20	*Holarrhena antidysentrica*, *Jatropha curcas*, *Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Stachybotrys longispora, T. Matsushima	①	(xviii)	20	*Artemisia thuscula*	S	C6	569
Stachybotrys nephrospora, C.G. Hansford	①	(xviii)	20	*Calamus thwaitesii*	L	C1	325
Stachybotrys sp.	①	(xviii)	20	*E. grandis*, *Musa acuminata*	X	C2, C1	78
Stachylidium sp.	①	(vii)	21	*Rhododendron*	S, L	C6	277
Stagonospora arenaria, P.A. Saccardo	①	(v)	34	*Dactylis glomerata*	G	C6	315
Stagonospora nodorum, Castellani & Germano	①	(v)	34	*Triticum aestivum*	L	C2	57, 82, 105, 159
Stagonospora sp.	①	(v)	34	*Gossypium hirsutum*, *Trachycarpus fortune*, *Licuala ramsayi*	L, F	C1, C3, C7	12, 304, 591
Stagonosporopsis cucurbitacearum, Aveskamp, J. de Gruyter & G.J.M. Verkley	①	(v)	34	*Glycine max*	L	C4	129
Staphylotrichum coccosporum, J.A. Meyer & J. Nicot	①	(vii)	21	*C. fenestratum*	S	C1	67
Steccherinum sp.	②	(i)	48	N.S.	P	C7	122
Steganosporium sp.	⑥	(vii)	21	*Quercus spinosa*	S	C1	155

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Stegolerium kukenani, Strobel, W.M. Hess & E.J. Ford	①	(iii)	21	*Stegolepis guianensis*	R	C4	183, 231
Stemphylium botryosum, C.F.W. Wallroth	①	(v)	34	*Centaurea stoebe*	W	C6	103
Stemphylium globuliferum, E.G. Simmons	①	(v)	34	*Mentha pulegium*	S	C2	547
Stemphylium lancipes, E.G. Simmons	①	(v)	34	*Gossypium hirsutum*	L, F	C3	47
Stemphylium sedicola, E.G. Simmons	①	(v)	34	*Chamaecyparis thyoides, T. baccata*	S	C1	158, 177 ,232
Stemphylium solani, G.F. Weber	①	(v)	34	*Panax ginseng*	L	C1	58, 103, 136
Stemphylium sp.	①	(v)	34	*Pinus thunbergii*	R	C6	58, 60, 66, 103, 125
Stemplylium vesicarium, E.G. Simmons	①	(v)	34	*Espeletia*	L	C1	355
Stenella agalis	①	(v)	8	*Aegle marmelos*	F	C1	363
Stenella musicola, M. Arzanlou, P.W. Crous	①	(v)	8	*Citrus limon*	L	C6	343
Stephanonectria sp.	①	(xviii)	20	*Caladenia carnea*	R	C7	122
Stereum hirsutum, C.H. Persoon	②	(i)	36	*Pinus thunbergii*	R	C1	297
Stereum sp.	②	(i)	36	*C. paspali*	S	C3	112
Stilbella fimetaria, G. Lindau	①	(xviii)	20	*Ulva lactuca*	A	C6	49

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Strelitziana africana, M. Arzanlou, P.W. Crous	①	(vi)	10	*Persea americana*	C	C3	367
Strelitziana sp.	①	(vi)	10	*Persea americana*	C	C3	367
Stromatoneuspora phoenix	①	(vii)	21	*Musa acuminata*	R	C6	364
Strumella griseola, F. von Höhnel.	①	(xv)	31	*Shortgrass Steppe*	G	C6	283
Strumella sp.	①	(xv)	31	*Epipactis microphylla*	R	C3	122
Surculiseries rugispora, I. Okane, A. Nakagiri, T. Ito	①	(iii)	21	*Bruguiera gymnorrhiza*	L	C1	556
Sydowia polyspora, E. Müller	①	(v)	15	*Pinus ponderosa*	G	C3	201
Sydowiella fenestrans, (Duby) F. Petrak	①	(v)	15	*Paullinia cupana*	R, H	C4	552
Syncephalastrum racemosum, J. Schröter	⑦	(vii)	26	*Rhizophora apiculata, Rhizophora mucornata and Bruguiera gymnorrhiza*	R	C1	303
Syncephalastrum sp.	⑦	(vii)	26	*Theobroma cacao*	C	C4	33
Synchytrium macrosporum, J.S. Karling	③	(iv)	11	Submerged aquatic plant	R	C6	285
Taeniolella exilis, S.J. Hughes	①	(v)	76	*Boswellia sacra*	S, L	C1	299
Taeniolella sp.	①	(v)	76	*Ilex wightiana*	L	C1	77
Talaromyces amestolkiae, N. Yilmaz, Houbraken, Frisvad & Samson	①	(vi)	17	*T. rhoifolia*	L	C4	272,
Talaromyces emersonii, A.C. Stolk	①	(vi)	17	*Calophyllum inophyllum*	L, L, L, S	C1	272

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Talaromyces flavus, A.C. Stolk; R.A. Samson	①	(vi)	17	*Phragmites australis, Potentilla fulgens*	L	C6	146, 482
Talaromyces funiculosus, Samson, Yilmaz, Frisvad & Seifert	①	(vi)	17	*Bauhinia forficata*	O	C4	331
Talaromyces minioluteus, Samson, Yilmaz, Frisvad & Seifert	①	(vi)	17	*Silybum marianum*	L	C3	115
Talaromyces pinophilus, Samson, Yilmaz, Frisvad & Seifert	①	(vi)	17	*Zea mays*	R	C1	320
Talaromyces radicus, Samson, Yilmaz, Frisvad & Seifert	①	(vi)	17	*Catharanthus roseus*	O	C1	275
Talaromyces sp.	①	(vi)	17	Sea weed, *Epipactis microphylla*, *Avicennia marina*	R	C6, C1	73, 122, 146, 18
Talaromyces trachyspermus, A.C. Stolk; R.A. Samson	①	(vi)	17	*Cedrus deodara*	T	C1	50
Taloromyces rotundus, A.C. Stolk; R.A. Samson	①	(vi)	17	*C. aloifolium.*	O	C1	485
Taphrina communis, (Sadeb.) Giesenh	①	(xxxi)	77	*Fortunella crassifolia*	F	C4	542
Taxomyces andreanae, Strobel, A. Stierle, D. Stierle & W.M. Hess	①	(vii)	21	*Taxus brevifolia*	B	C3	34, 125, 152, 157, 166, 177,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Teratosphaeria molleriana, P.W. Crous & U. Braun	①	(v)	34	*E. grandis x E. camaldulensis*	L, T	C2	337
Teratosphaeria zuluensis, M.J. Wingfield & P.W. Crous	①	(v)	34	*E. grandis x E. camaldulensis*	L, T	C2	337
Terfezia leptoderma, Tulasne & C. Tulasne	①	(xv)	31	*Taraxacum coreanum*	L, R	C1	294
Terfezia sp.	①	(xv)	31	*Neottia nidus-avis*	R	C6	122
Tetrachaetum elegans, C.T. Ingold	①	(vii)	21	*C. viminea*, *E. adenophorum*	R	C1	458
Tetracladium breve, Roldán, A.	①	(x)	18	*Eupatorium adenophorum*	R	C1	536
Tetracladium furcatum, Descals	①	(x)	18	Submerged aquatic plant	R	C3	121
Tetracladium marchalianum, E. de. Wildeman.	①	(x)	18	*C. viminea*, *E. adenophorum*	R	C1	458
Tetracladium maxiliforme, C.T. Ingold	①	(x)	18	*Fragaria vesca*	R	C6	467
Tetracladium nainitalense, S.C. Sati, P. Arya, M. Belwal	①	(x)	18	*Eupatorium adenophorum and Colocasia* sp.	R	C1	536
Tetracladium sp.	①	(x)	18	*Cassiope tetragona, Saxifraga cespitosa, Saxifraga oppositifolia, Silene acaulis*	C, W	C5	121
Tetraploa aristata, M.J. Berkeley; C.E. Broome	①	(v)	34	*Opuntia ficus-indica*	U	C3	175, 318

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Thanatephorus pennatus, R.S. Currah	②	(i)	7	*Calypso bulbosa*	R	C3	101
Thanatephorus sp.	②	(i)	7	*Neuwiedia veratrifolia, Pterostyulis* spp.	R, Q	C3	473
Tharoopama trina, C.V. Subramanian	①	(vii)	21	*Crataeva magna*	T	C1	393
Thelebolus microsporus, Kimbrough	①	(x)	74	*Acrosiphonia arcta*	A	C5	309
Thelebolus sp.	①	(x)	74	Bryophytes	O	C5	306
Thelephora sp.	②	(i)	42	*Epipogium aphyllum*	M	C6, C1	122
Thermomyces lanuginosus, P. Tsiklinsky,	①	(vi)	17	*Broussonetia papyrifera, Celtis occidentalis and Ligustrum lucidum*	S, L	C4	328
Thermomyces sp.	①	(vi)	17	*Cordemoya integrifolia*	R	C2	24
Therrya sp.	①	(x)	35	*Pinus wallichiana, cucumber*	S, N	C1	323
Thielavia appendiculata, M.P. Srivastava, R.N. Tandon, S.N. Bhargava, A.K. Gosh	①	(xviii)	39	*S. grandis*	L, R	C1	82
Thielavia arenaria, J. Mouchacca	①	(xviii)	39	*Boswellia sacra*	R, L, S	C6, C1	300
Thielavia hyrcaniae, J. Nicot	①	(xviii)	39	*Gossypium hirsutum*	L	C3	47
Thielavia icacinacearum, S.K. Singh	①	(xviii)	39	*Nothapodytes nimmoniana*	T	C1	177
Thielavia microspora, J. Mouchacca	①	(xviii)	39	*A. marina*	L	C1	590
Thielavia sp.	①	(xviii)	39	*Gossypium hirsutum*	L	C3	109, 115

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Thielavia subthermophila, J. Mouchacca	①	(xviii)	39	*Hypericum perforatum, Picrorhiza kurroa*	S	C6	50, 150, 180,
Thielavia terrestris, D. Malloch; R.F. Cain	①	(xviii)	39	*Pinus thunbergii*	R	C3	297
Thielavia terricola, C.W. Emmons	①	(xviii)	39	*Silybum marianum*	L, S, R, H	C3	115
Thozetella nivea, (Berkeley) O. Kuntze	①	(xviii)	9	*Keteleeria fortunei Keteleeria fortunei Pinus elliottii Pinus massoniana*	N	C1	558
Thozetella pinicola, S.Y.Q. Yeung, R. Jeewon & K.D. Hyd	①	(xviii)	9	*Pinus elliottii, Pinus massoniana*	N	C1	558
Thozetella tocklaiensis, (Agnihothrudu) K.A. Pirozynski & C.S. Jr Hodges	①	(xviii)	9	*Keteleeria fortunei*	N	C1	558
Thozetella sp.	①	(xviii)	9	*Euterpe oleracea*	L	C6	189
Thozetellopsis sp.	①	(xviii)	9	*A. marina*	L	C1	354
Thuemenella sp.	①	(xviii)	47	*Betula platyphylla*	L	C1	450
Thyrostroma sp.	①	(v)	6	*Paris polyphylla*	M	C1	278
Thyrostromella myriana, F. von Höhnel.	①	(vii)	21	*Hyoscyamus muticus*	L	C6	399
Thysanophora penicilioides, W.B. Kendrick	①	(vi)	17	*Keteleeria fortunei*	N	C1	558
Tiarosporella parca, H.S. Whitney, J. Reid & Pirozynski	①	(x)	18	*Picea abies*	L	C3	201

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Tiarosporella sp.	①	(x)	18	*Abies*	N,	C2	29
Tiarosporella urbis-rosarum, Jami, Gryzenhout, Slippers & M.J. Wingfield	①	(x)	18	*Acacia karroo*	V	C1	410
Tilletia sp.	②	(xxxii)	81	Coffee	W	C1	355
Tilletiopsis derxii, M. Takashima; T. Nakase	②	(xxxii)	21	Tress not specified	L	C1	356
Tilletiopsis oryzicola, M. Takashima; T. Nakase	②	(xxxii)	21	Tress not specified	L	C1	356
Tilletiopsis pallescens, Gokhale, A.A.	②	(xxxii)	21	*Holcus lanatus*	G	C4	315
Tilletiopsis penniseti, M. Takashima; T. Nakase	②	(xxxii)	21	Tress not specified	L	C6	356
Tinctoporellus epimiltinus, (Berkeley & Broome) Ryvarden	②	(i)	48	*Vitis labrusca*	L	C4	481
Tolypocladium album, Quandt, Kepler & Spatafora	①	(xviii)	20	*Hevea brasiliensis*	V	C4	296
Tolypocladium amazonense, Gazis, Skaltsas, & P. Chaverri	①	(xviii)	20	*Hevea brasiliensis* and *H. guianensis*	V	C6	296
Tolypocladium cylindrosporum, W. Gams	①	(xviii)	20	*Holcus lanatus*	G	C4	315
Tolypocladium endophyticum, Gazis, Skaltsas, & P. Chaverri	①	(xviii)	20	*Hevea brasiliensis and H. guianensis*	V	C4	296

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Tolypocladium inflatum, W. Gams	①	(xviii)	20	*Hevea brasiliensis*	V	C4	197
Tolypocladium pustulatum, Quandt, Kepler & Spatafora	①	(xviii)	20	*Hevea brasiliensis*	V	C4	296
Tolypocladium tropicale, Gazis, Skaltsas & P. Chaverri	①	(xviii)	20	*Hevea brasiliensis*	V L	C6	296
Tomentella sp.	②	(i)	42	*Epipactis microphylla*	R	C3	122
Torrubiella confragosa, E.B. Mains	①	(xviii)	20	*Eleusine coracana*	H, R	C4	400
Torula ellisii, Lal & Yadav	①	(xxvii)	37	*Avicennia schaueriana, Laguncularia racemosa*, and *Rhizophora mangle*	L	C3	154
Torula herbarum, H.F. Link	①	(xxvii)	37	*Crataegus monogyna, Sequoia sempervirens*	L, F	C1	10, 161
Torula sp.	①	(xxvii)	37	*S. corniculata*	L	C1	66, 99, 117, 172, 77
Torulomyces sp.	①	(vi)	17	*Randia dumetorum*	L	C4	77
Toxicocladosporium cacti, J.D.P. Bezerra, C.M. Souza-Motta & P.W. Crous,	①	(v)	8	*Pilosocereus gounellei*	W	C4	402
Toxicocladosporium immaculatum, J.D.P. Bezerra, C.M. Souza-Motta & P.W. Crous	①	(v)	8	*Melocactus zehntneri*	W	C1	402

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Toxicocladosporium irritans, P.W. Crous; U. Braun	①	(v)	8	*Pinus koraiensis*	N	C3	350
Trametes elegans, E. Fries	②	(i)	48	*Taxus globosa*	O	C3	74
Trametes gibbosa, (Persoon) E. Fries	②	(i)	48	*Triticum aestivum, Hevea brasiliensis*	O	C6	311, 167
Trametes hirsuta, E.M. Fries	②	(i)	48	*Podophyllum hexandrum, Sinopodophyllum hexandrum*	L	C6	101, 125, 158, 166, 199
Trametes polyzona, E.J.H. Corner	②	(i)	48	*Cephalotaxus hainanensis*	W	C1	489
Trametes sp.	②	(i)	48	*Triticum aestivum*	L	C6	101
Trametes versicolor, C.G. Lloyd	②	(i)	48	*Pinus thunbergii*	R	C1	297
Trechispora sp.	②	(i)	43	*Wullschlaegelia*	R, M	C6	122
Tremella encephala, C.H. Persoon	②	(xix)	49	*Rosa canina, Prunus domestica*	F	C6	429
Tretopileus sphaerophorus, S. Hughes & Deighton	②	(i)	12	*Acacia sundra*	L	C1	384, 385
Tricharina ochroleuca, F.E. Eckblad	①	(xv)	31	*Panax ginseng*	R, S	C1	323
Tricharina sp.	①	(xv)	31	*Pinus wallichiana*	S, N	C1	502
Trichobotrys ramosa, D'Souza & Bhat	①	(vii)	21	*Dendrocalamus strictus*	L	C1	325
Trichobotrys sp.	①	(vii)	21	*Dermatocarpon miniatum*	L	C1	109
Trichocladium alopallonellum, J. Kohlmeyer; B. Volkmann-Kohlmeyer	①	(xviii)	39	*Rhizophora mucronata*	R	C1	395

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Trichocladium asperum, C.O. Harz	①	(xviii)	39	*Adhatoda zeylanica*	L	C1	396
Trichocladium opacum, S.J. Hughes	①	(xviii)	39	*Paris polyphylla*	L	C1	278
Trichocladium roseum	①	(xviii)	39	*Fagus sylvatica*	S	C6	101
Trichocladium sp.	①	(xviii)	39	*Fagus sylvatica*	S	C6	87
Trichoderma aggressivum, Samuels & W. Gams	①	(xviii)	20	*Vitis vinifera*	U	C6	274
Trichoderma alni, Jaklitsch	①	(xviii)	20	*Fragaria vesca*, *Pinus halepensis*,	R	C6	37, 83, 148
Trichoderma asperellum, G.J. Samuels; Lieckfeldt, E.; Nirenberg, H.I.	①	(xviii)	20	*Nymphaea nouchali*	S	C1	3
Trichoderma aureoviride, M.A. Rifai	①	(xviii)	20	*Phragmites australis*	R	C6	146
Trichoderma citrinoviride, J. Bissett	①	(xviii)	20	Cork oak	L	C1	3, 162
Trichoderma effusum, C.P. Bissett Kubicek & Szakacs	①	(xviii)	20	*Vellozia gigantea*	R, L	C4	477
Trichoderma erinaceum, C.P. Bissett Kubicek & Szakacs	①	(xviii)	20	*Pinus thunbergii*	R	C1	297
Trichoderma gamsii, Samuels & Druzhinina	①	(xviii)	20	*Paris polyphylla*	L	C1	278
Trichoderma ghanense, Doi, Y.; Abe, Y.; J. Sugiyama	①	(xviii)	20	*Pinus thunbergii*	R	C1	58
Trichoderma hamatum, G. Bainier	①	(xviii)	20	*Pinus thunbergii*	R	C1, C4	90

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Trichoderma harzianum, M.A. Rifai	①	(xviii)	20	*Phragmites australis, hlegmariurus phlegmaria, Hevea brasiliensis*	R, L	C6, C1	66, 103, 146, 148, 167,
Trichoderma koningiopsis, Samuels, C. Suárez & H.C. Evans	①	(xviii)	20	*Pinus thunbergii, Hevea brasiliensis*	R	C1, C4	78, 80, 90, 167,
Trichoderma lixii, (Patouillard) P. Chaverri	①	(xviii)	20	*Oryza granulate*	R	C1	353
Trichoderma longibrachiatum, M.A. Rifai	①	(xviii)	20	*Salacia oblonga, Hemerocallis flava , Artemisia scoparia*	L, R, S	C1	68, 240, 542
Trichoderma neokoningii, Samuels & Sober.	①	(xviii)	20	*Coffea arabica*	C, L	C1	454
Trichoderma nivale	①	(xviii)	20	*Melia azedarach*	R, R X, S, L F	C4	475
Trichoderma ovalisporum, Samuels & Schroers	①	(xviii)	20	*Paris polyphylla*	L	C1	545
Trichoderma parareesei, Jaklitsch & Atanasova	①	(xviii)	20	*Aralia elata*	R	C1	437
Trichoderma piluliferum, J. Webster & Rifai	①	(xviii)	20	*Bauhinia forficata*	O	C4	502
Trichoderma polysporum, M.A. Rifai	①	(xviii)	20	*Panax ginseng*	R, S	C1	331
Trichoderma pseudokoningii, M.A. Rifai	①	(xviii)	20	*Laguncularia racemosa*	L	C4	154
Trichoderma reesei, E.G. Simmons	①	(xviii)	20	*Vitis vinifera*	U	C6	274

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Trichoderma saturnisporum, T.M. Hammill	①	(xviii)	20	*Phragmites australis*	R	C6	500
Trichoderma sp.	①	(xviii)	20	*Acalypha indica, Alternanthera sessilis, E. nitens, E. grandis, Euterpe oleracea, Acrostichum aureum, Pholidota pallida, Plumeria rubra, Sapindus lourifolius, Theobroma cacao*	R, L, X, L, C	C4, C1, C2	20, 32, 33, 57, 58, 66, 75, 77, 80, 109, 116, 122, 141, 155, 160, 161, 163
Trichoderma spirale, J. Bissett	①	(xviii)	20	*Panax notoginseng*	R	C1	146
Trichoderma velutinum, C.P. Bissett Kubicek & Szakacs	①	(xviii)	20	*Pinus thunbergii*	R	C1	297
Trichoderma virens, J.A. von Arx.	①	(xviii)	20	*Artemisia scoparia, Vitis vinifera*	S, R, L, U	C1, C6	68, 274
Trichoderma viride, C.H. Persoon	①	(xviii)	20	*Populus tremula, Quercus robur*	L, T	C6, C6, C6	55, 66, 78
Trichoderma atroviride, P.A. Karsten	①	(xviii)	20	*C. acuminate,*	G, B, R B, T, L, F	C1	193, 227
Trichophaea abundans, Boudier, J.L.É.	①	(xv)	31	*Pinus roxburgii, Taxus globosa*	T	C3, C1	50, 74
Trichophaea hybrida, T. Schumacher	①	(xv)	31	*Silybum marianum*	S	C3	115
Trichophyton tonsurans, Malmsten	①	(vi)	56	*Ziziphus nummularia*	L	C1	463
Trichosporon coremiiforme, E. Guého & M.T. Smith	②	(xix)	49	*Phragmites australis*	L, R	C6	146

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Trichosporon insectorum, A.M. Fuentefria, S.O. Suh, M.F. Landell, J. Faganello, A. Schrank, M.H. Vainstein, M. Blackwell, P. Valente	②	(xix)	49	*Phragmites australis*	L, R	C6	146
Trichosporon porosum, W.J. Middelhoven, G. Scorzetti & J.W. Fell	②	(xix)	49	*Fragaria vesca*	R	C6	467
Trichosporon sp.., G. Behrend	②	(xix)	49	*Basala alba*	L	C1	116, 121
Trichothecium crotocinigenum, Summerbell, Seifert, & Schroers	①	(xviii)	20	*Fragaria vesca*	R	C6	467
Trichothecium roseum, H.F. Link	①	(xviii)	20	*Centaurea stoebe*	W	C6	103
Trichothecium sp.	①	(xviii)	20	*Phyllanthus amarus*, *Prunus avium*	L	C4	125, 172, 492
Trichurus spiralis, H. Hasselbring	①	(xviii)	24	*Prunus avium*	T, L	C1	492
Tricladium sp.	①	(vii)	21	Submerged aquatic plant	R	C6	285
Trimmatostroma betulinum, S.J. Hughes	①	(x)	18	*Betula pendula*	C	C6, C6	418
Trimmatostroma hughesii, V.G. Rao & Subhedar	①	(x)	18	*Cissus Quadrangularis*	O	C1	457
Trimmatostroma sp.	①	(x)	18	*Aegiceras corniculatum*	L	C1	18
Tritirachium oryzae, G.S. de Hoog.	①	(vii)	21	*Gossypium hirsutum*	L	C4	73
Tritirachium sp.	①	(vii)	21	*Fagus crenata*	L	C4	201

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Truncatella angustata, S.J. Hughes	①	(xviii)	47	*Triticum aestivum*	L	C6	12, 66
Truncatella hartigii, R.L. Steyaert	①	(xviii)	47	*Pinus nigra*	N	C2	428
Truncatella sp.	①	(xviii)	47	*Rhododendron*	S, L	C6	277
Tryblidiopsis pinastri, P.A. Karsten	①	(x)	35	*Picea abies, Pinus halepensis*,	L	C6	83
Trypethelium eluteriae, C.P.J. Sprengel	①	(v)	53	*Cathranthus roseus*	O	C7	358
Trypethelium sp.	①	(v)	53	*Artemisia*	L	C1	95
Tubakia dryina, B.C. Sutton	①	(xviii)	14	*Quercus robur*	U, D, L	C6	37
Tuber dryophilum, LR Tulasne, C. Tulasne	①	(xv)	31	Submerged aquatic plant	R	C6	285
Tubercularia sp.	①	(xviii)	20	*Chamaecyparis thyoides, Taxus mairei*	L	C1, C3	15, 95, 125, 166, 199
Tubercularia vulgaris, H.J. Tode	①	(xviii)	20	*Chamaecyparis thyoides*	L	C3	9
Tulasnella calospora, H.O. Juel	②	(i)	7	*Diuris maculata*	W	C7	101
Tulasnella phuhinrongklaensis, C. Rachanarin, N Suwannarach, J. Kumla, K. Srimuang, ERIC H.C. MCKENZIE, S. Lumyong	②	(i)	7	*Phalaenopsis pulcherrima*	R	C1	555
Tulasnella prima, C.C. Linde & T.W. May	②	(i)	7	*Chiloglottis*	W	C7	553

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Tulasnella secunda, C.C. Linde & T.W. May	②	(i)	7	*Drakaea* and *Caleana*	W	C7	553
Tulasnella sp.	②	(i)	7	*Acianthus, Arthrochilus, Caladenia, Caleana carnea, Calochilus, Chiloglottis, Corybas, Cryptostylis, Cymbidium, Dendrobium, Dipodium variegatum, Dipodium hamiltonianumDiuris, Drakaea, Eriochilus, Lyperanthus, Microtis, Neuwiedia veratrifolia, Orthoceras, Thelymitra*		C6, C1, C6,	101
Tulasnella sphagneti, C.C. Linde & T.W. May	②	(i)	7	*Chiloglottis*	W	C7	553
Tulasnella warcupii, C.C. Linde & T.W. May	②	(i)	7	*Arthrochilus oreophilus*	W	C7	553
Tumularia aquatica, L. Marvanová; E. Descals	①	(vii)	21	*Eucalyptus globulus*	V	C6	479
Tympanis alnea, E.M. Fries	①	(iii)	18	*Alnus glutinosa*	C	C6, C6	418
Tympanis sp.	①	(iii)	18	*Larix decidua, Picea abies, Pinus sylvestris, Vanda testacea*	T, R, L	C6	201
Ulocladium atrum, C.G.T. Preuss	①	(v)	34	*Centaurea stoebe*	W	C6	103

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Ulocladium chartarum, E.G. Simmons	①	(v)	34	*Pulicaria undulate,*	L	C2	587
Ulocladium consortiale, E.G. Simmons	①	(v)	34	*Boswellia sacra*	S, L	C1	299
Ulocladium cucurbitae, E.G. Simmons	①	(v)	34	*Centaurea stoebe*	L	C6	103
Ulocladium oudemansii, E.G. Simmons	①	(v)	34	*Lippia sidoides*	L, S	C4	487
Ulocladium sp.	①	(v)	34	*E. grandis, Quercus pubescens, Quercus robur, Picea, Pinus halepensis, Pinus roxburgii*	L, T	C2, C6, C6, C1	29, 50, 57, 58, 66, 72, 83, 87, 160, 161
Umbelopsis dimorpha, Mahoney & W. Gams	⑦	(vii)	26	*Kadsura angustifolia*	W	C1	441, 440
Umbelopsis isabellina, W. Gams	⑦	(vii)	26	*Picea abies*	R	C1	130
Umbelopsis ramanniana, W. Gams	⑦	(vii)	26	*Pinus thunbergii*	R	C1	297
Umbelopsis sp.	⑦	(vii)	26	*Cymbidium* spp., *Hevea brasiliensis*	R	C1	122, 167,
Umbelopsis versiformis, R.E. Amos; H.L. Barnett	⑦	(vii)	26	*Quercus boreali*	R	C3	441
Undifilium bornmuelleri, B.M. Pryor, R. Creamer, R.A. Shoemaker, J. McLain-Romero, and S. Hambleton	①	(v)	34	*Oxytropis kansuensis*	L	C1	251
Undifilium oxytropis, B.M. Pryor, R. Creamer, R.A. Shoemaker, J. McLain-Romero, and S. Hambleton	①	(v)	34	*Oxytropis kansuensis*	L	C1	251

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Undifilum cinereum, Baucom & Creamer	①	(v)	34	*Astragalus mollissimus*	S, L, Z	C3	252
Undifilum fulvum, Baucom & Creamer	①	(v)	34	*Astragalus lentiginosus*	S, L, Z	C3	252
Ustilago sp.	②	(xxiii)	55	*Dactylis glomerata*	G	C6	315
Ustulina deusta, Maire	①	(xviii)	47	*Euterpe eolerace*	L	C4, C6,	189
Valsa ambiens, E.M. Fries	①	(xviii)	14	*Panax ginseng*	O	C1	189
Valsa brevispora, G.C. Adams; M.J. Wingfield; R. Common; J. Roux	①	(xviii)	14	*R. stylosa* and *R. mucronate*	R, L	C1	509
Valsa ceratosperma, R. Maire	①	(xviii)	14	*Codium fragile*	A	C1	359
Valsa fabianae, G.C. Adams, M.J. Wingfield & Jol. Roux	①	(xviii)	14	*Elymus farctus*	G	C6	315
Valsa mali, Miyabe & G. Yamada	①	(xviii)	14	*Camptotheca acuminata*	F	C1	244
Valsa sordida, T. Nitschke	①	(xviii)	14	*Picrorhiza kurroa, Populus tremula*	T	C1	50, 88
Valsa sp.	①	(xviii)	14	*E. grandis*	L	C2	188
Varicosporina ramulosa, S.P. Meyers; J.J. Kohlmeyer	①	(xviii)	24	*Cytoseira* sp.	A	C6	359
Varicosporium elodeae, W. Kegel	①	(x)	18	Submerged aquatic plant	R	C6	285
Varicosporium sp.	①	(x)	18	*Pseudorchis albida*	R	C6	122
Venturia alpina, P.A. Saccardo	①	(v)	34	*Cassiope tetragona*	L	C5	121
Venturia ditricha, P.A. Karsten	①	(v)	34	*Betula pubescens*	L	C6	201, 298

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Venturia fraxini, R. Aderhold.	①	(v)	34	*Fraxinus*	L	C6	448
Venturia orni, M. Ibrahim, M. Schlegel & T.N. Sieber	①	(v)	34	*Fraxinus ornus*	L	C3	589
Venturia sp.	①	(v)	34	*Cassiope tetragona Saxifraga cepitosa Saxifraga oppositifolia Silene acaulis*	L	C5	29, 121
Vermiculariopsiella immersa, H.B. Bender	①	(xviii)	80	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Vermiculariopsiella parva, K. Prasad, D'Souza & Bhat	①	(xviii)	80	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Vermiculariopsiella sp.	①	(xviii)	80	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Veronae botryosa, R. Ciferri; A. Montemartini	⑥	(vii)	21	*Holarrhena antidysentrica, Jatropha curcas, Hemidesmus indicus*	R, S, L, B, F, L, L, Z	C1	491
Verticicladium sp.	①	(xv)	31	*Glechoma hederacea*	L	C3	10
Verticicladium trifidum, C.G.T. Preuss	①	(xviii)	31	*Chamaecyparis thyoides*	L	C3	33
Verticillium acasia	①	(xviii)	52	*Phragmites australis*	L	C6	389
Verticillium albo-atrum, J. Reinke; G. Berthold	①	(xviii)	52	*Tylophora asthmatica*	N.S.	C1	342
Verticillium bulbillosum, W. Gams & Malla	①	(xviii)	52	*Cephalotaxus hainanensis*	W	C1	489

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Verticillium chlamydosporium, H.N. Goddard	①	(xviii)	52	*Artemisia nilagirica*	L	C1	383
Verticillium dahliae, H. Klebahn	①	(xviii)	52	*Solanum tuberosum*	R	C6	333
Verticillium lecanii, A.P. Viégas	①	(xviii)	52	*C. caroliniana*	L, B	C3	106, 170
Verticillium leptobactrum, W. Gams	①	(xviii)	52	*P. perrottettii*, *Tapirira guianensis*	S, L	C4	334
Verticillium luteo-album, C.V. Subramanian	①	(xviii)	52	*Theobroma cacao*	C,	C4	33
Verticillium nigrescens, G.H. Pethybridge	①	(xviii)	52	*Elymus farctus*, *Holcus lanatus*	G	C6	315
Verticillium nubilum, Treschew	①	(xviii)	52	*Hyoscyamus muticus*	L	C1	399
Verticillium psalliotae, G.H. Pethybridge	①	(xviii)	52	*Panax ginseng*	L	C1	143
Verticillium sp.	①	(xviii)	52	*Dendrobium*, *Gossypium hirsutum*, *Mora excelsa*, *Musa acuminata*, *Rehmannia glutinosa*, *Theobroma cacao*, *Tripterygium wilfordii*	C, L, S, R	C4, C1, C4, C1, C3	12, 17, 20, 30, 31, 32, 33, 99, 122, 125, 143, 246
Virgaria nigra, C.D.G. Nees von Esenbeck	①	(xviii)	47	*Chamaecyparis thyoides*	L	C3	9
Volutella ciliata, E.M. Fries	①	(xviii)	20	*Holcus lanatus*	G	C6	315
Volutella consors, (Ellis & Everhart) K.A. Seifert, Gräfenhan & Schroers	①	(xviii)	20	*Dysosma versipellis*	M	C1	572

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Volutella sp.	①	(xviii)	20	*A. thaliana*	S, H F.	C6	161
Waitea circinata, Warcup, J.H.; Talbot, P.H.B.	②	(i)	7	Grass	R	C3	417
Wallemia sebi, J.A. von Arx.	②	(xxvi)	46	*Chamaecyparis thyoides*	L	C4	9
Wardomyces sp.	①	(xviii)	24	*Euterpe oleracea*	L	C4	189
Wardomycopsis sp.	①	(xviii)	24	*Trachycarpus fortunei*	L	C1	591
Westerdykella multispora, K. Cejp; A.A. Milko	①	(v)	34	*Phragmites australis*	L, R	C6	146
Westerdykella sp.	①	(v)	34	*Dendrobium crumenatum*	O	C6	331
Wickerhamiella siamensis, P. Khunnamwong, and S. Limtong	①	(xxvii)	37	*Saccharum officinarum*	L	C1	349
Wickerhamomyces anomalus, C.P. Kurtzman; C.J. Robnett; E. Basehoar-Powers	①	(xxvii)	37	*Lactuca sativa*, *Psilotum nudum*	F	C6	216, 542
Wilcoxina sp.	①	(xv)	31	*Cephalanthera longifolia*	R	C1	122
Williopsis saturnus, Wickerham	①	(xxvii)	37	*Zea mays*	R	C4	257
Wrightoporia sp.	②	(i)	36	*Theobroma gileri*	S	C4	102
Wrightoporia tropicalis, Ryvarden	②	(i)	36	*Theobroma gileri*	S	C5	102
Xenoacremonium falcatus, L. Lombard & P.W. Crous	①	(xviii)	20	*Dysosma versipellis*	M	C1	572

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Xenopolyscytalum sp.	①	(x)	18	*Bryophytes, Hevea brasiliensis*	O	C4	308
Xylaria castore, Berkeley	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Xylaria microcera, Berkeley	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Xylaria acuta, C. H. Peck,	①	(xviii)	47	*Theobroma gileri*	S	C4	95, 102
Xylaria adscendens, E.M. Fries	①	(xviii)	47	*Terminalia mantaly, Euterpe oleracea*	F, Z, S, B, R, R, B	C1	189
Xylaria allantoidea, E.M. Fries	①	(xviii)	47	*Euterpe oleracea, Hevea brasiliensis*	L	C4	167
Xylaria amphithele, San Martín González, F.; J.D. Rogers	①	(xviii)	47	*Dendrobium*	R	C4	267
Xylaria anisopleura, J.P.F.C. Montagne	①	(xviii)	47	*Euterpe oleracea*	L	C3	189
Xylaria apiculata, Dennis, R.W.G.	①	(xviii)	47	*Pinus srobus, Vaccinium angustifolium*	N, L, S	C1	95
Xylaria apoda, J.D. Rogers; Y.M. Ju	①	(xviii)	47	*Dendrobium*	R	C4, C1	267
Xylaria arbuscula, P.A. Saccardo	①	(xviii)	47	*Caesalpinia echinata, Euterpe oleracea, -Lepanthes, Dendrobium*	L, R, S B	C1	95
Xylaria badia, Patouillard	①	(xviii)	47	*Dendrobium*	R	C1	267
Xylaria berteri, Cooke ex J.D. Rogers & Y.M. Ju	①	(xviii)	47	Soybean	L	C4	322
Xylaria carpophila, E.M. Fries	①	(xviii)	47	*Camellia oleifera*	B	C1	507
Xylaria castorea, Berkeley	①	(xviii)	47	*Terminalia catappa*	F, Z, S, B, R, R, B	C2	478

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Xylaria coccophora, J.P.F.C. Montagne	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Xylaria corniformis, E.M. Fries	①	(xviii)	47	*Lepanthes caritensis*	R	C3	260
Xylaria cornu-damae, Berkeley	①	(xviii)	47	Liverwort	O	C4, C3	95
Xylaria cubensis, E.M. Fries	①	(xviii)	47	*Euterpe oleracea, Chamaecyparis thyoides, Licuala ramsayi*	L	C3, C7	9, 74, 189, 304
Xylaria curta, E.M. Fries	①	(xviii)	47	*Chamaecyparis thyoides*	L	C3	9
Xylaria digitata, R.K. Greville	①	(xviii)	47	*Pinus srobus, Vaccinium angustifolium*	N, L, S	C4	215
Xylaria enteroleuca, P. Martin	①	(xviii)	47	*Myrceugenia ovata nanophylla*	L	C1	267
Xylaria feejeensis, E.M. Fries	①	(xviii)	47	*Dendrobium*	R	C1	267, 590
Xylaria grammica, (J.P.F.C. Montagne) J.P.F.C. Montagne	①	(xviii)	47	*Dendrobium, Khaya anthotheca, Protium heptaphyllum*	R	C3	151, 272
Xylaria hypoxylon, R.K. Greville	①	(xviii)	47	*Pinus srobus, Vaccinium angustifolium*	N, L, S	C3	6, 34, 66
Xylaria ianthinovelutina, J.P.F.C. Montagne	①	(xviii)	47	Soybean, *Khaya anthotheca*	L	C4	151
Xylaria juruensis, J.P.F.C. Montagne	①	(xviii)	47	*Taxus globosa*	O	C3	74
Xylaria longiana, H. Rehm	①	(xviii)	47	*Fagus silvaticus, Nicotiana*	L	C6, C3	261
Xylaria longipes, Nitschke	①	(xviii)	47	*Chamaecyparis thyoides, Artemisia species*	L, S	C3, C1	9, 95
Xylaria mali, Fromme	①	(xviii)	47	*Pinus srobus, Vaccinium angustifolium*	N, L, S	C3	164

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Xylaria mellisii, M.C. Cooke	①	(xviii)	47	*Manilkara bidentata*	L	C3	158
Xylaria multiplex, E.M. Fries	①	(xviii)	47	*Dendrobium*	R	C1	267
Xylaria obovata, Berkeley	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Xylaria palmicola, G. Winter	①	(xviii)	47	*Euterpe oleracea*	L	C4	189
Xylaria papulis, C.G. Lloyd	①	(xviii)	47	*Dendrobium*	R	C1	267
Xylaria persicaria, Berkeley & M.A. Curtis	①	(xviii)	47	*Terminalia mantaly*	F, Z, S, B, R, R, B	C2	478
Xylaria polymorpha, R.K. Greville	①	(xviii)	47	*Pinus srobus, Vaccinium angustifolium*	N, L, S	C3	27
Xylaria primorskensis, Y.M. Ju; H.M. Hsieh; Vassiljeva, L.N.; Akulov.	①	(xviii)	47	*Pinus koraiensis*	N	C1	350
Xylaria sp.	①	(xviii)	47	*Albies holophylla, Alnus, Carapa guianensis, Coffea arabica, Dalbergia, Zoliveri, Dendrobium nobile, Dipterocarpus tuberculatus, Garcinia dulcis, Ginko biloba, Camptotheca acuminate, Licuala spinosa, Piper adncum, Sandoricum koetjape, Shorea obtusa, Licuala spinosa, C. lusitanica, Licuala ramsayi*	L, S, R	C1, C4, C6	13, 21, 28, 29, 33, 36, 38, 43, 56, 60, 62, 73, 76, 77, 80, 83, 94, 95, 99, 104, 107, 117, 122, 125, 132, 150, 151, 158, 164,

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
							165, 172, 304
Xylaria telfairi, P.A. Saccardo	①	(xviii)	47	*Euterpe oleracea*	L	C6	189
Xylaria venosula, F. von P. Schrank	①	(xviii)	47	*Dendrobium*	R	C1	267
Xylaria venustula, P.A. Saccardo	①	(xviii)	47	*Dendrobium*	R	C1	267
Xylogone ganodermophthora, Kang, Sigler, Lee & Yun	①	(vii)	21	*Paullinia cupana*	R, H	C4	552
Xylohypha sp.	①	(vii)	21	*Dendrobium crumenatum*	O	C1	331
Xylomelasma sordida, M. Réblová	①	(xviii)	21	*Taxus globosa*	O	C3	74
Yamadazyma guilliermondii, G. Billon-Grand	①	(xxvii)	37	*Panax quinquefolium*	L, S	C1	327
Yamadazyma mexicana, (M. Miranda, Holzschu, Phaff & Starmer) Billon-Grand	①	(xxvii)	37	*Palmaria decipiens*	A	C5	309
Yamadazyma michaelii, P. Khunnamwong, , & S. Limtong	①	(xxvii)	37	*Vellozia gigantea*	R, L	C4	477
Yamadazyma riverae, M.R. Lopes, M.C. Ferreira, Pagnocca, P.B. Morais, M.A. Lachance & C.A. Rosa	①	(xxvii)	37	*Vellozia gigantea*	R, L	C4	477
Zalerion curcumensis, Kang, Sigler, Lee & Yun	①	(xxvii)	70	*Curcuma decipens*	L	C1	325

Table 1 Continued.

Endophytes	Division	Class	Order	Host	Host Part	Location	Reference
Zalerion maritimum, (Linder) Anastasiou	①	(xviii)	70	*Acanthus ilicifolius*	R	C1	395
Zasmidium scaevolicola, R.G. Shivas, McTaggart, A.J. Young & P.W. Crous	①	(v)	8	*Citrus limon*	L	C6	343
Zopfiella karachiensis, (S.I. Ahmed & Asad) Guarro	①	(xviii)	39	*Psidium guajava*	S	C6	79
Zopfiella latipes, (N. Lundqvist) Malloch & Cain	①	(xviii)	39	*Phragmites australis*	R	C6	146
Zopfiella longicaudata, J.A. von Arx.	①	(xviii)	39	*Silybum marianum*, rice	L	C3, C1	115
Zopfiella marina, Furuya & Udagawa	①	(xviii)	39	*Phragmites australis*	R	C6	146
Zygosporium masonii, S.J. Hughes	①	(vii)	21	*Myriophyllum spicatum*	S	C3	385
Zythia sp.	①	(vii)	21	*Camptotheca acuminate*	F	C1	193, 208
Zythiostroma pinastri, (P. Karsten) Höhnel	①	(xviii)	20	*Pinus nigra*	N	C6	428

Codes for the Divisions are as follows:
① – Ascomycota; ② – Basidiomycota; ③ – Chytridiomycota; ④– Zoopagomycota; ⑤ – Oomycota; ⑥ – Incertae sedis; ⑦ – Mucoromycota; ⑧ – Zygomycota.
Codes for the Classes are as follows:
(i) – Agaricomycetes; (ii) – Agaricostilbomycetes; (iii) – Ascomycetes; (iv) – Chytridiomycetes; (v) – Dothideomycetes; (vi) – Eurotiomycetes; (vii) – Glomeromycetes; (vii) – Incertae sedis; (ix) – Lecanoromycetes; (x) – Leotiomycetes; (xi) – Microbotryomycetes; (xii) – Monoblepharidomycetes; (xiii) – Oomycetes; (xiv) – Orbiliomycetes; (xv) – Pezizomycetes; (xvi) – Pucciniomycetes; (xviii) – Sordariomycetes; (xix) – Tremellomycetes; (xx) – Trichomycetes; (xxi) – Zygomycetes; (xxii) – Chaetothyriomycetes; (xxiii) – Ustilaginomycetes; (xxvi) – Basidiomycetes; (xxv) – Hyphomycetes; (xxvi) – Wallemiomycetes; (xxvii) – Saccharomycetes; (xxviii) – Mucoromycetes; (xxix) – Urediniomycetes; (xxx) – Pyrenomycetes; (xxxi) – Taphrinomycetes; (xxxii) – Exobasidiomycetes.

Codes for the Orders are as follows:

1 – Agaricales; 2 – Agaricostilbales; 3 – Amylocorticiales; 4 – Auriculariales; 5 – Boliniales; 6 – Botryosphaeriales; 7 – Cantharellales; 8 – Capnodiales; 9 – Chaetosphaeriales; 10 – Chaetothyriales; 11 – Chytridiales; 12 – Corticiales; 13 – Cystofilobasidiales; 14 – Diaporthales; 15 – Dothideales; 16 – Erysiphales; 17 – Eurotiales; 18 – Helotiales; 19 – Hymenochaetales; 20 – Hypocreales; 21 – Incertae – sedis; 22 – Lecanorales; 23 – Magnaporthales; 24 – Microascales; 25 – Monoblepharidales; 26 – Mucorales; 27 – Myriangiales; 28 – Ophiostomatales; 29 – Orbiliales; 30 – Boletales; 31 – Pezizales; 32 – Phyllachorales; 33 – Platygloeales; 34 – Pleosporales; 35 – Rhytismatales; 36 – Russulales; 37 – Saccharomycetales; 38 – Sebacinales; 39 – Sordariales; 40 – Sphaeriales; 41 – Sporidiobolales; 42 – Thelephorales; 43 – Trechisporales; 44 – Trichosphaeriales; 45 – Tubeufiales; 46 – Wallemiales; 47 – Xylariales; 48 – Polyporales; 49 – Tremellales; 50 – Ostropales; 51 – Sporidiales; 52 – Glomerellales; 53 – Trypetheliales; 54 – Zoopagales; 55 – Ustilaginales; 56 – Onygenales; 57 – Venturiales; 58 – Mortierellales; 59 – Meliolales; 60 – Pythiales; 61 – Gloeophyllales; 62 – Diversisporales; 63 – Endogonales; 64 – Boletales; 65 – Atheliales; 66 – Amphisphaeriales; 67 – Acrospermales; 68 – Trichosporonales; 69 – Phomatosporales; 70 – Lulworthiales; 71 – Uredinales; 72 – Exobasidiales; 73 – Leucosporidiales; 74 – Thelebolales; 75 – Phaeomoniellales; 76 – Mytilinidiales; 77 – Taphrinales; 78 – Cystobasidiales; 79 – Filobasidiales; 80 – Vermiculariopsiellales; 81 – Tilletiales; 82 – Trapeliales; 83 – Hysteriales; 84 – Microstromatales; 85 – Phacidiales; 86 – Hyphomycetales; 87 – Verrucariales; 89 – Xenospadicoidales

Codes for the Host parts are as follows:

Algae – A; Bark – B; Branch – C; Bud – D; Lichen – E; Fruit – F; Grass – G; Seed – H; Internode – I; Sponge – J; Petiole – K; Leaf – L; Rhizome – M; Needle – N; All Part – O; Orchid – P; Tuber – Q; Root – R; Stem – S; Twig – T; Shoot – U; Wood – V; Tissue – W; Xylem – X; Phloem – Y; Flower – Z

C**odes for the Continents are as follows**:

C1 – Asia; C2 – Africa; C3 – North America; C4 – South America; C5 – Antarctica; C6 – Europe; C7 – Australia

Codes for References:

1. Sun et al. 2012; **2.** Liang et al. 2012; **3.** Rosa et al. 2012; **4.** Arenal et al. 2007; **5.** Guo et al. 2006; **6.** Mucciarelli et al. 2002; **7.** MacArthur & McGee 2000; 8. Rodrigues et al. 2000; **9.** Bills & Polishook 1992; **10.** Schulz et al. 1993; **11.** McCutcheon et al. 1993; **12.** Crous et al. 1995; **13.** Brown et al. 1998; **14.** Rodrigues et al. 2000; **15**. Wang et al. 2000; **16.** Panaccione et al. 2001; **17.** Photita et al. 2001; **18.** Kumaresan & Suryanarayanan 2001; **19.** Strobel et al. 2001; **20.** Cannon & Simmons 2002; **21.** Otero et al. 2002; **22.** Kumaresan 2002; **23**. Zikmundova et al. 2002; **24**. Toofanee & Dulymamode 2002; **25**. Faeth & Fagan 2002; **26**. Daisy et al. 2002; **27**. Davis et al. 2003; **28**. Arnold et al. 2003; **29**. Ganley et al. 2004; **30**. Photita et al. 2004; **31**. Kumar & Hyde 2004; **32**. Suryanarayanan & Thennarasan 2004; **33**. Rubini et al. 2005; **34**. Gao et al. 2005; **35**. Waller et al. 2005; **36**. Phongpaichit et al. 2006; **37**. Gonthier et al. 2006; **38**. Devarajan & Suryanarayanan 2006; **39**. Strobel 2006; **40**. Arenal et al. 2007; **41**. Khan et al. 2007; **42**. Phongpaichit et al. 2007; **43**. Arnold & Lutzoni 2007; **44**. Meshram et al. 2013; **45**. Amin et al. 2007; **46**. Ek–Ramos et al. 2013; **47**. Varvas et al. 2013; **48**. Shi et al. 2013; **49**. Flewelling et al. 2013; **50**. Qadri et al. 2013; **51**. Tuppad & Shishupala 2013; **52**. Kumar & Kaushik 2013; **53**. Chhetri et al. 2013; **54**. Manamgoda et al. 2013; **55**. Maheswari & Rajagopal 2013; **56**. Higginbotham et al. 2013; **57**. De al.dana et al. 2013; **58**. García et al. 2013; **59.** Devi et al. 2012; **60.** Ho et al. 2012; **61.** Powthong et al. 2012; **62.** Amirita et al. 2012; **63**. Waqas et al. 2012; **64.** Kusari et al. 2013a; **65.** Shan et al. 2012; **66.** González & Tello 2011; **67.** Goveas et al. 2011; **68.** Nisa et al. 2018; **69.** Anderson et al. 2011; **70.** Vesterlund et al. 2011; **71.** Refaei et al. 2011; **72.** Sun et al. 2011a; **73.** Vieira et al. 2011b; **74.** Rivera–Orduña et al. 2011; **75.** Tenguria & Khan 2011; **76.** Sun et al. 2011b; **77.** Rajulu et al. 2011; **78.** Ghimire et al. 2011; **79.** Russell et al. 2011; **80.** Xing et al. 2011; **81.** Tejesvi et al. 2010; **82.** Su et al. 2010; **83.** Botella & Diez 2011; **84.** Bharathidasan & Panneerselvam 2011; **85.** Tran et al. 2010; **86.** Lin et al. 2010; **87.** Márquez et al.

2010; **88.** Albrectsen et al. 2010; **89.** Pérez et al. 2010; **90.** De Errasti et al. 2010; **91.** Khan et al. 2010; **92.** Promputtha et al. 2010; **93.** Tejesvi et al. 2011; **94.** Van Bael et al. 2009a; **95.** Huang et al. 2009; **96.** Van Bael et al. 2009b; **97.** Zhang et al. 2009; **98.** Tao et al. 2008; **99.** Huang et al. 2008; **100.** Sánchez Márquez et al. 2008; **101.** Rungjindamai et al. 2008; **102.** Thomas et al. 2008; **103.** Shipunov et al. 2008; **104.** Oses et al. 2008; **105.** Zabalgogeazcoa 2008; **106.** Vega et al. 2008; **107.** Mejía et al. 2008; **108.** Kamalraj et al. 2008; **109.** Li et al. 2007; **110.** Rakotoniriana et al. 2008; **111.** Tejesvi et al. 2007; **112.** Feldman et al. 2008; **113.** Deshmukh et al. 2006; **114.** Schirrmann & Leuchtmann 2015; **115.** Raja et al. 2015; **116.** Srinivas et al. 2015; **117.** Nascimento et al. 2015; **118.** Venkatachalam et al. 2015a; **119.** Yan et al. 2015; **120.** Wiewióra et al. 2015; **121.** Zhang & Yao 2015b; **122.** Ma et al. 2015; **123.** Yuan & Chen 2014; **124.** Rajapriya et al. 2014; **125.** Pandey et al. 2014; **126.** Shubin et al. 2014; **127.** Yu et al. 2015; **128.** Balakumaran et al. 2015; **129.** Fernandes et al. 2015; **130.** Terhonen et al. 2014; **131.** Cosoveanu et al. 2014; **132.** Oliveira et al. 2014; **134.** Takemoto et al. 2014; **135.** Kurandawad & Lakshman 2014; **136.** Ju–Kyeong et al. 2014; **137.** Prabavathy & Nachiyar 2014; **138.** Selim et al. 2014; **139.** Shen et al. 2013; **140.** Kumar et al. 2013; **141.** Rajesh & Rai 2013; **142.** Pérez et al. 2013; **143.** Wu et al. 2013a; **144.** Xiong et al. 2013; **145.** Loro et al. 2012; **146.** Angelini et al. 2012; **147.** Elavarasi et al. 2012; **148.** Shukla et al. 2012; **149.** Park et al. 2012a; **150.** Radić et & Štrukelj 2012; **151.** Linnakoski et al. 2012; **152.** Baker & Satish 2012; **153.** Torres et al. 2012; **154.** Costa et al. 2012; **155.** Li et al. 2012a; **156.** Gond et al. 2012; **157.** Specian et al. 2012; **158.** Selim et al. 2012; **159.** Kleczewski et al. 2012; **160.** Baynes et al. 2012; **161.** Junker et al. 2012; **162.** Park et al. 2012b; **163.** Andrade–Linares et al. 2011; **164.** Cui et al. 2011; **165.** Sutjaritvorakul et al. 2011; **166.** Zhao et al. 2010b; **167.** Gazis & Chaverri 2010; **168.** Zhao et al. 2010a; **169.** Khidir et al. 2010; **170.** Vega 2008; **171.** Kuldau & Bacon 2008; **172.** Li et al. 2005; **173.** Koide et al. 2005; **175.** Nair & Padmavathy 2014; **176.** Zhenhua et al. 2012; **177.** Nisa et al. 2015; **178.** Mishra et al. 2014; **179.** Devari et al. 2014; **180.** Kusari et al. 2013b; **181.** Kumar & Kaushik 2012; **182.** Shukla et al. 2014; **183.** Jalgaonwala et al. 2017; **184.** Fisher & Petrini 1988; **185.** Pirttilä et al. 2003; **186.** Shearer, 2009; **187.** Bush et al. 1997; **188.** Smith et al. 1996; **189.** Rodrigues 1994; **190.** Wilson & Carroll 1994; **191.** Espinosa-Garcia & Langenheim 1990. **192.** Rekha et al. 2013; **193.** Suryanarayanan 2013; **194.** Premjanu & Jayanthy 2012; **195.** Purahong & Hyde 2011; **196.** Kharwar et al. 2011; **197.** Joseph & Priya 2011; **198.** Badali et al. 2008; **199.** Aly et al. 2010; **200.** Yu et al. 2010; **201.** Sieber 2007; **202.** Slippers & Wingfield 2007; **203.** Schardl et al. 2004; **204.** Schulz et al. 2002; **205.** Strobel 2003; **206.** Vaz et al. 2014; **207.** Gonzaga et al. 2015; **208.** Ding et al. 2010; **209.** Lee et al. 2017; **210.** Davey & Currah 2007; **211.** Wu et al. **212.** Saxena et al. 2015; **213.** Meshram et al. 2017; **214.** Richardson et al. 2014; **215.** Cheng et al. 2014; **216.** Gao et al. 2011; **217.** Shaw et al. 2015; **218.** Zhang et al. 2010a; **219.** Macías–Rubalcava et al. 2010; **220.** Qun et al. 2011; **221.** Silva et al. 2006; **222.** Kudalkar et al. 2012; **223.** Meshram et al. 2013; **224.** Li et al. 2012b; **225.** Nath & Joshi 2013; **226.** Gangadevi & Muthumary 2009; **227.** Pu et al. 2013; **229.** Kumaran et al. 2008; **230.** Shrestha et al. 2001; **231.** Strobel 2001; **232.** Mirjalili et al. 2012; **234.** Liu et al. 2009; **235.** Wang & Tang 2011; **236.** Hu et al. 2006; **237.** Soca–Chafre et al. 2011; **238.** Strobel et al. 1996; **239.** Zhao et al. 2004; **240.** Roopa et al. 2015; **241.** Kumaran et al. 2010; **242.** Gangadevi et al. 2008; **243.** Gurudatt et al. 2010; **244.** Min & Wang 2009; **245.** Shweta et al. 2013; **246.** Wu et al. 2013a; **247.** Nath & Joshi 2013; **248.** Pragathi et al. 2013; **249.** Saraswaty et al. 2013; **250.** Yadav et al. 2014; **251.** Pryor et al. 2009; **252.** Baucom et al. 2012; **253.** Staniek et al. 2010; **254.** Wu et al. 2013c; **255.** Bhagobaty & Joshi 2009; **256.** Hammerschmidt et al. 2012; **257.** Nassar et al. 2005; **258.** Xin et al. 2009; **259.** Waqas et al. 2014; **260.** Bayman et al. 1997; **261.** Edwards et al. 1999; **262.** Nicoletti & Fiorentino 2015; **263.** Zhang et al. 2015a; **264.** Khan et al. 2009; **265.** Khan et al. 2008; **267.** Chen et al. 2013; **268.** Carroll & Carroll 1978; **269.** Whalley et al. 2015; **270.** Suwannarach et al. 2010; **271.** Yassmin et al. 2014; **272.** Fierro–Cruz et al. 2017; **273.** Douanla–Meli & Langer 2012; **274.** Pancher et al. 2012; **275.** Palem et al. 2015; **276.** Deshmukh et al. 2014; **277.** Purmale et al. 2012; **278.** Liu et al. 2017; **279.** Porras–Alfaro & Bayman 2011; **280.** Mahmoud & Narisawa 2013; **281.** Halleen et al. 2007; **282.** Mostert et al. 2000; **283.** Kageyama et al. 2008; **285.** Kohout et al. 2012; **286.** Subban et al. 2013; **287.** Elsebai et al. 2011; **288.** Deshmukh et al.

2015; **290.** Ding et al. 2013; **291.** Clay 1990; **292.** Lukešová et al. 2015; **294.** Paul et al. 2006; **295.** Adeyemi 2015; **296.** Gazis et al. 2014; **297.** Min et al. 2014; **298.** Saikkonen 2007; **299.** El–Nagerabi et al. 2014; **300.** Maciá–Vicente et al. 2008a; **303.** Thorati et al. 2016; **304.** Rodrigues & Samuels 1990; **305.** Bettucci & Saravay 1993; **306.** Rosa et al. 2010; **307.** Rosa et al. 2009; **308.** Zhang et al. 2013; **309.** Godinho et al. 2013; **310.** Yu et al. 2014; **311.** Comby et al. 2016; **312.** Lu et al. 2009; **313.** Macia–Vicente et al. 2008b; **314.** Lu et al. 2012; **315.** Márquez et al. 2012; **316.** Bezerra et al. 2015; **317.** Lyons et al. 1990; **318.** Bezerra et al. 2012; **319.** Bhattacharyya et al. 2017; **320.** Potshangbam et al. 2017; **321.** Jin et al. 2017; **322.** De Souza Leite et al. 2013; **323.** Qadri et al. 2014; **324.** Dissanayake et al. 2016a; **325.** D'Souza & Bhat 2013; **326.** Porras–Alfaro et al. 2014; **327.** Xing et al. 2010; **328.** Novas & Carmarán 2008; **329.** Thirunavukkarasu et al. 2017; **330.** Venkatachalam et al. 2015b; **331.** Mangunwardoyo et al. 2012; **332.** Li et al. 2016; **333.** Götz et al. 2006; **334.** De Abreu et al. 2010; **335.** Abhini & Zuhara 2016; **336.** You et al. 2014; **337.** Marsberg et al. 2014; **338.** Deng et al. 2011; **339.** Paul et al. 2012; **340.** Wei et al. 2007; **341.** Vujanovic & Brisson 2002; **342.** Nalini et al. 2014; **343.** Douanla–Meli et al. 2013; **344.** Kandasamy et al. 2015; **345.** Anisha & Radhakrishanan 2017; **346.** Selvakumar et al. 2014; **347.** Priyadharshini et al. 2016; **348.** Larran et al. 2007; **349.** Khunnamwong et al. 2014; **350.** Lee et al. 2014; **351.** Mishra et al. 2016; **352.** Sunayana et al. 2014; **353.** Yuan et al. 2010; **354.** Suryanarayanan et al. 2000; **355.** Hernando et al. 2016; **356.** Takashima & Nakase 2001; **357.** Potshangbam et al. 2017; **358.** Sreekanth D et al. 2017; **359.** Oliveira et al. 2012; **360.** Katoch & Pull 2017; **361.** Nayak & Anandhu 2017; **362.** Kannan et al. 2017; **363.** Rajamanikyam et al. 2017; **364.** Zakaria et al. 2016; **365.** Gan et al. 2017; **366.** Venieraki et al. 2017; **367.** Shetty et al. 2016; **368.** Egan 2016; **369.** Cheng et al. 2012; **370.** Chobba et al. 2013; **371.** Zhao et al. 2013; **372.** Nulit & Idris 2015; **373.** Hoff et al. 2004; **374.** Wei & Xu 2004; **375.** Goveas et al. 2011; **376.** Perrone et al. 2008; **377.** Jinu & Jayabaskaran 2015; **378.** Murugan & Mugesh 2013; **379.** Guo et al. 2000; **380.** Maheswari & Rajagopal 2013; **381.** Akone et al. 2016; **382.** Das et al. 2013; **383.** Myrchiang et al. 2014; **384.** Prathyusha et al. 2015; **385.** Shearer 2001; **386.** González–Teuber et al. 2017; **387.** Glynou et al. 2017; **388.** Zaferanloo et al. 2013; **389.** Neubert et al. 2006; **390.** Nagaraja 2011; **391.** Qian et al. 2014; **392.** Han et al. 2012; **393.** Tejesvi et al. 2005; **394.** Tejesvi et al. 2006; **395.** Ananda & Sridhar 2002; **396.** Dui al Banerjee 2011; **397.** Li et al. 2010; **398.** Shan et al. 2014; **399.** Abdel-Motaal et al. 2010; **400.** Mousa et al. 2015; **401.** Zhong et al. 2017; **402.** Bezerra et al. 2017; **403.** Gasoni & De Gurfinkel 1997; **404.** Narisawa et al. 2007; **405.** Jumpponen & Trappe 1998; **406.** Dissanayake et al. 2016b; **407.** Sharma et al. 2013; **408.** Ferreira et al. 2015; **409.** Osorio et al. 2017; **410.** Jami et al. 2012; **411.** Jiang et al. 2011; **412.** Sette et al. 2006; **413.** Hoffman et al. 2008; **414.** Kaushik et al. 2014; **415.** Kharwar et al. 2014; **416.** Nayak 2015; **417.** Silva–Hughes et al. 2015; **419.** Septiana et al. 2017; **420.** Putra et al. 2015; **421.** Mueller 2011; **422.** Flewelling et al. 2015; **423.** Camatti-Sartori et al. 2005; **425.** Girlanda et al. 2002; **426.** Gherbawy & Elhariry 2014; **427.** Slippers et al. 2009; **428.** Janeš et al. 2007; **429.** Isaeva et al. 2010; **430.** Tan et al. 2018a; **431.** Bougoure & Dearnaley 2005; **432.** Sasan & Bidochka 2012; **433.** Maciá-Vicente et al. 2009; **434.** Okane & Nakagiri 2015; **435.** Vaz et al. 2009; **436.** Fisher et al. 1993; **437.** Wu et al. 2012; **438.** Ahmadpour et al. 2012; **439.** Jahn et al. 2017; **440.** Wang L et al. 2017; **441.** Wang YN et al. 2013; **443.** Vaz et al. 2012; **444.** Hipo et al. 2015; **445.** De Vries et al. 2017; **446.** Mahmoud et al. 2017; **447.** Bills et al. 2012; **448.** Schlegel et al. 2016; **449.** Chowdhary & Kaushik 2015; **450.** Osono & Masuya 2012; **451.** Katoch et al. 2017; **452.** Ho et al. 2012; **454.** Bongiorno et al. 2016; **455.** Sieber et al. 1991; **456.** Kowalski & Pawel 2002; **457.** Suradkar & Handev 2017; **458.** Younginger & Ballhorn 2017; **460.** Jami et al. 2015; **461.** Campos et al. 2015; **462.** Monteiro et al. 2017; **463.** Sabba et al. 2017; **464.** Haňáčková et al. 2017; **465.** Mahfooz et al. 2017; **466.** Araújo et al. 2001; **467.** Yokoya et al. 2017; **468.** Gloria et al. 2017; **469.** Zhong et al. 2017; **470.** De Oliveira Chagas et al. 2017; **471.** Marcellano et al. 2017; **472.** Li et al. 2017; **473.** Khoyratty et al. 2015; **474.** Bettucci 2013; **475.** Dos Santos et al. 2003; **476.** Wang JW et al. 2006; **477.** Ferreira et al. 2017; **478.** Toghueo et al. 2017; **479.** Fillat et al. 2016; **481.** Manasa & Nalini 2014; **481** Brum et al. 2012; **482.** Bhagobaty & Joshi 2012; **483.** Gashgari et al. 2016; **484.** Cosoveanu et al. 2016; **485.** Shubha & Srinivas 2017; **486.** Corrêa et al. 2014; **487.** Kudalkar et al. 2012; **488.** De Siqueira et al.

2011; **489.** Yang et al. 2015; **490.** Verkley et al. 2003; **491.** D'Souza & Hiremath 2015; **492.** Aghdam & Fotouhifar 2017; **493.** Abdulmyanova et al. 2015; **494.** Abdollahi & Bordi 2016; **495.** Zeng et al. 2011; **496.** Costa et al. 2012; **497.** Vega et al. 2010; **498.** Sheik et al. 2015; **499.** Zhao et al. 2018; **500.** Zheng et al. 2017; **501.** Sunitha et al. 2013; **502.** Park et al. 2017; **503.** Cosoveanu et al. 2018; **504.** El-Zayat et al. 2008; **505.** Khoyratty et al. 2015; **506.** Abdel-Motaal et al. 2009; **507.** Yu et al. 2018; **508.** Hamzah et al. 2018; **509.** Zhou et al. 2018; **510.** Mefteh et al. 2017; **511.** Ding et al. 2011; **512.** Martin & Dombrowski. 2015; **513.** Azeez et al. 2016; **514.** Yang et al. 2018; **515.** Ragazzi et al. 2001; **516.** Rajendran 2016; **517.** Lewis & Clements 1986; **518.** Dreyfuss 1984; **519.** Vieira et al. 2011a; **520.** Osterhage et al. 2000; **521.** Araujo et al. 2013; **522.** Gu W 2009; **523.** Saithong et al. 2010; **524.** Usui et al. 2016; **525.** Feng et al. 2014; **526.** Rojas et al. 2010; **527.** Martínez–Luis et al. 2008; **528.** Goutam et al. 2016; **529.** Zhang et al. 2011; **530.** Shearer 2001; **531.** Li et al. 2011; **532.** Sugijanto et al. 2009; **533.** Maiquez et al. 2016; **534.** Harvey et al. 2010; **535.** Sati & Pathak 2017; **536.** Arya & Sati 2011; **538.** Sugijanto et al. 2009; **539.** Maiquez et al. 2016; **540.** Tao et al. 2013; **541.** Zhang et al. 2010; **542.** Atsatt & Whiteside 2014; **543.** Khan et al. 2013; **544.** Hussain et al. 2014; **545.** Dang et al. 2010; **546.** Ma et al. 2018; **547.** Debbab et al. 2009; **548.** Russo et al. 2016; **549.** Magyar et al. 2011; **550.** Wibowo et al. 2016; **551.** Lv et al. 2010; **552.** De Azevedo et al. 2018; **553.** Linde et al. 2017; **554.** Budziszewska et al. 2011; **555.** Rachanarin et al. 2018; **556.** Okane etal. 2001; **557.** Kumar et al. 2019; **559.** Tibpromma et al. 2018; **560.** Huang et al. 2015; **561.** Toghueo et al. 2019; **562.** Wang et al. 2019; **563.** Dhayanithy et al. 2019; **564.** Mafezoli et al. 2018; **565.** Materatski et al. 2019; **566.** Lin et al. 2019; **567.** Haňáčková et al. 2017; **568.** Cosoveanu & Cabrera 2018; **569.** Cosoveanu.et al. 2018b; **570.** Myrchiang et al. 2014; **571.** Szűcs et al. 2018; **572.** Tan et al. 2018b; **573.** Yang et al. 2018; **574.** Danagoudar et al. 2018; **575.** Sarma 2018; **576.** Naik 2018; **577.** Moron et al. 2018; **578.** Maadon et al. 2018; **579.** Hamayun et al. 2017; **580.** Hu et al. 2007; **581.** Wang et al. 2005; **582.** Wei et al. 2013; **583.** Bussaban et al. 2001; **584.** Ko et al. 2011; **585.** Jiaojiao et al. 2016; **586**. De Silva et al. 2019; **587.** Selim et al. 2018; **588.** Husaain et al., 2017; **589.** Ibrahim M et al. 2017; **590.** Li et al. 2016; **591.** Taylor et al. 1999; **592.** Gomes AA et al. 2018; **593.** Wang FW et al. 2006

Major classes

At the class level, the Sordariomycetes constitutes 36% of the total endophytic fungal species recorded. The second largest class of endophytic fungal species is Dothideomycetes covering approximately 25%, followed by Eurotiomycetes (9.6%), Agaricomycetes (6.4%), Leotiomycetes (6.2%) and others (Fig. 2) and this observation is in agreement with that of Arnold (2007). While these two classes *viz*., Sordariomycetes and Dothideomycetes are more diverse in terms of species diversity, the Eurotiomycetes, even though were recorded with low species diversity, are the most commonly recorded group in almost all endophytic fungal studies. This is because the species belonging to the genera *Aspergillus* and *Penicillium* of this class are more commonly recorded depending on the surface sterilization protocols followed. These genera are fast-growing and their propagules falling on the leaves from aeromycota could be numerous when compared to the slow-growing fungi. Hence the propagules of these fast-growing fungi may escape if a strong surface sterilization protocol is not adopted. The Ascomycota is the largest group among fungi with more than 70,000 species (Kirk et al. 2008) with Sordariomycetes and Dothideomycetes represented with a large number of species (Kirk et al. 2008). Probably this is reflected in endophytic fungal groups also. The class Agaricomycetes has been represented with 7% of the endophytic fungal species reported so far and the same seems to be very low for Basidiomycota (Fig. 1a).

Major orders

Endophytic fungal genera are very diverse and cover around 70 different fungal orders. Among these, the most prominent ones are Pleosporales, Hypocreales, Xylariales, Eurotiales, Helotiales and Botryosphaeriales, (Fig. 1). *Pleosporales* have been reported to be the largest order in the *Dothideomycetes* that include a quarter of all dothideomycetous species with new families, genera, and species (Kirk et al. 2008, Zheng et al. 2012, Huang et al. 2017, Li et al. 2017,

Wanasinghe et al. 2017, 2018, Zhang et al. 2018). Species in this order occur in various habitats, and can be epiphytes, endophytes or parasites of living leaves or stems, hyperparasites on fungi or insects, lichenized, or are saprobes of dead plant stems, leaves or bark (Tennakoon et al. 2018, Yang et al. 2019). This order belongs to bitunicate fungal group that produces asci within locules that are of peithecoid type and has hamathecium filled with pseudoparaphyses. Zheng et al. (2012) recognize 26 families in this order and is one of the most diverse among the bitunicate fungi. Along with Hypocreales and Eurotiales among unitunicate fungi, the Pleosporales in Loculosascomycetes are highly positive in producing bioactive compounds (Liberra & Lindequist 1995). This could be the reason why most of the endophytic fungal studies show strains that produce bioactive compounds of therapeutic importance (Suryanarayanan et al. 2009). In the present list, we could also find that Xylariales is another order that has been recorded with highest number of fungal species as endophytes. Other than basidiomycetous fungi, xylarialean fungi have been implicated to be good producers of lignolytic enzymes (Stephen et al. 2005). Though leaves may have lesser amount of lignin than hemicellulose and cellulose, the ability to produce cellulases and xylanases among angiosperms may aid them to break the lignocellulosic substrata and thrive in a competitive mode, having an edge over other fungi.

The orders Pleosporales and Hypocreales are the dominant orders that are found colonizing grasses in temperate regions (Porras–Alfaro et al. 2008). On the other hand, Xylariales and Phyllachorales are the common taxa for tropical grasses (Higgins et al. 2007). The order Hypocreales includes endophytic families Clavicipitaceae and Hypocreaceae of which the former is mostly associated with grasses. These endophytes were first reported in the late 19th century in association with the seeds of *Lolium* spp. of grasses in Europe (Guerin 1898, Hanausek 1898, Vogl 1898). Role of these clavicipitaceous endophytes in the fitness of hosts has been debated widely and considerable evidence is available indicating that these endophytes enhance the host resistance to insect feeding (Rowan & Gaynor 1986, Clay 1990, Siegel et al. 1990, Patterson et al. 1991, Riedell et al. 1991), anti–nematode activity (Kimmons et al. 1990), deterrence of feeding by herbivores (White Jr 1988, Li et al. 2004, Gentile et al. 2005). On the contrary, no evidence of resistance towards insect or nematode to host plants has been found (Saikkonen et al. 1998, Faeth et al. 2006), thus questioning the 'endophyte–conferred benefits' to the host. Despite all these controversies, there is no doubt on the role played by these endophytes as defensive mutualists of host grasses due to a major role played in countering abiotic stresses of hosts such as metal contamination (Malinowski & Belesky 2000) and drought resistance (Arachevaleta et al. 1989).

In grasses, the most common order recorded, after the above mentioned ascomycetous orders, is Agaricales whereas, in roots and woody tissues, Russulales, Agaricales, and Polyporales are common (Porras-Alfaro et al. 2008, Herrera et al. 2010, Khidir et al. 2010). We know that fungi are usually identified based on reproductive structures and since there is no possibility of fruit body formation on leaves or in artificial cultures, most of the basidiomycetous fungi recorded have been subjected to molecular identification methods to identify the fungi belonging to this major group. This is because very few basidiomycetous anamorphs seem to be found in our table (Fig. 1). This is one of the advantages of molecular techniques.

Most speciose genera

When it comes to the most dominant genera among the endophytes, *Penicillium* is the most speciose genus, followed by *Alternaria, Fusarium, Colletotrichum, Aspergillus* and *Xylaria* in that order (Table 1). Species belonging to *Penicillium* and *Aspergillus* are the most common fungi present in soils and in the air. They are by and large missing as litter degraders or as pathogens of standing crops. However, they are implicated as post–harvest disease causing fungi. It could be surmised that the surface sterilization protocol and the species recorded, though not correlated in the present study, may influence the retrieval of endophytic fungi in culture–dependent studies. This is because more concentrated surface sterilization may reduce the retrieval of strains belonging to *Aspergillus* and *Penicillium*. Apart from the above-mentioned genera, few other frequently

occurring endophytic fungal genera are *Colletotrichum, Pestalotiopsis, Phoma, Phomopsis, Diaporthe, Trichoderma, Acremonium, Cladosporium, Chaetomium, Curvularia* etc.

Host plants and fungal endophytes

The ubiquitous nature of endophytes has been very well established by the fact that a large number of hosts has been screened for understanding the nature and diversity of these wonderful microbes (Table 1). A wide range of fauna also has been explored for fungal endophytes all over the world. However, the latter group is not included in the present paper. Presence of endophytic fungi in the photosynthetic organisms to date are reported from algae (Hawksworth 1988), ferns (Fisher et al. 1993), mosses (Schutlz et al. 1993), conifers (Legault et al. 1989) and angiosperms (Frohlich & Hyde 1999, Arnold 2000). More than 75% of the hosts sampled belong to angiosperms, which accommodate a plethora of endophytes (Fig. 3). Also, several studies on gymnosperms have been carried out for endophytic fungal studies. Nearly 11% of the studies carried out were on the Pinophyta and Tracheaophyta. The present data also concurs with the above facts (Fig. 3). Besides floral studies, approximately 2.4% of the studies also were dedicated to algal endophytes. Several studies have been carried out on endophytic fungi from algae but only some of them have concentrated on screening and isolation of the bio–active compounds (Jones et al. 2008, Suryanarayanan 2012, Venkatachalam et al. 2015b). Isolates from tropical and temperate environment had more interesting congregation of endophytes in marine macroalgal hosts (Suryanarayanan et al. 2010, Flewelling et al. 2013). Oliveira et al. (2012) summarized the algicolous endophytic fungi from marine algae. Endophytic species recovered have also been found not to be associated/specific with hosts from which they are recovered as have been demonstrated with *Scaevola hainanensis* and *Magnolia liliifera* (Jeewon et al. 2004, Promputtha et al. 2007)

Substrates

The number and diversity of endophytes isolated from different parts of the hosts varies depending on the plant part sampled. In most of the studies carried out, the primary host part is leaf. Since leaves of the hosts show a rich diversity and easy to handling when compared to other parts, it is evident from the data that approximately more than 35% of the studies carried were on the foliar endophytes of the host. A similar observation was made by Kumar & Hyde (2004), signifying a greater rate of colonization in the host leaves when compared to other parts such as roots, flowers, xylem, branches and twigs.

Leaves

The magnitude of colonization of leaf segments by endophytes may vary from one host individual to another. For example, Rodrigues (1994) reported only 30% of leaf colonization in Amazonian palms, whereas (Arnold et al. 2003) found it up to 73.9% and Lodge et al. 1996 between 90% to 95% of leaf colonization in *Manilkara bidentata.* Furthermore, the surface area of the host leaf also determines the extent of infestation by endophytes which is directly proportional to the surface area and age of leaf (e.g. Bernstein & Carroll 1977). In non–mycorrhizal endophytic fungi, their diversity is quite higher in leaves when compared to roots.

Roots

The root is also one of the most studied parts of the host for endophytes after leaves. Endophytic fungi belonging to different taxonomic groups of Ascomycota, especially dark septate endophytes, hypocreales, xylariales along with Sebacinales (non–mycorhizal members) have been reported from roots (Shirdam et al. 2009). Root endophytes are generally transmitted horizontally and form various associations (Rodriguez et al. 2009). They also cover approximately 21% of the total studies followed by twigs, branches, rhizomes, etc. Root fungal endophytes are reported to reinforce stress tolerance in hosts towards biotic and abiotic factors. 'Dark septate endophytes' is a major functional group in root endophytes (Rodriguez et al. 2009). After (Melin 1922), Montemartini, reported this group, with more than 135 species of dark pigmented fungi, to be

associated within tissues in roots of angiosperms (Montemartini 1924). They are mostly ascomycetous fungi, conidial or generally sterile with melanized inter– or intracellular hyphae, microsclerotia in the host roots and have limited host or habitat specificity as they have limited geographic as well as host distribution (Rodriguez et al. 2009).

Dark septate endophytes have been reported to be in alliance with nonmycorrhizal hosts from Arctic/Antarctic zones, African coastal plains / lowlands, tropical ecosystems (Jumpponen & Trappe 1998, Kageyama et al. 2008), boreal and temperate forests in association with the root of hosts (conifers, shrubs etc.) (Richard & Fortin 1975). Since their presence within the hosts, under stressed conditions, has been found, it could be concluded that their role in ecophysiology of hosts is indispensable. The most under-investigated part is the floral part of the hosts as only few reports are available on the endophytes from bud or the flower of the host.

Orchids

Fungal endophytes from Orchidaceae have been reported globally (Otero & Flanagan 2006, Gezgin & Eltem 2009), including terrestrial (Chutima et al. 2011) and epiphytic orchids (Albores et al. 2005, Yuan et al. 2009). Endophytes belonging to orchids and grasses have also been studied extensively. There are more than 110 genera of fungal endophytes that have been reported from orchids. In Ascomycota, the class Sordariomycetes is represented with approximately 39 genera of which the most prominent ones are: *Cylindrocarpum, Hypocrea, Nigrospora* and *Pestalotiopsis.* Also, 25 genera belonging to Dothideomycetes have been reported of which the most prominent ones are *Alternaria, Cercospora, Lasiodiplodia* and *Phyllosticta*. Twelve genera belonging to Leotiomycetes, with *Chaetomella* and *Sclerotinia* as the most prominent ones have also been reported from orchids. Apart from the above, 32 genera of fungal endophytes falling under Agaricomycetes in Basidiomycota are reported from orchids. The most common endophytes of this group are *Conocybe, Gymnopus, Hydropus, Psathyrella* and *Resinicium*. Other classes such as Pezizomycetes, Eurotiomycetes, Chaetothyriomycetes, Tremellomycetes, Pucciniomycetes also have fungal endophytes from orchids such as *Geopora, Talaromyces, Exophiala, Cryptococcus* and *Tuberculina,* respectively (Ma et al. 2015). Non–mycorrhizal endophytes from orchids constitute approximately 15% of the total hosts studied so far (Ma et al. 2015).

Genera of fungi reported as endophytes

In the list generated (Table 1), there are more than 878 genera of fungi reported as endophytes. Out of the 840 genera reported as endophytic fungal genera (Table 1), fourteen genera alone constituted 618 species. *Penicillium* has been found to be the most speciose genus with more than 100 species reported as endophytes, followed by *Alternaria* (61), *Colletotrichum* (78), *Fusarium* (59), *Aspergillus* (52*), Pestalotiopsis* (53), *Pestalotiopsis* (45), *Xylaria* (40), *Phoma* (37) and *Phomopsis* (34) that are recorded with a large number of species (Table 3). This survey includes more than 500 research articles and the endophytes that were reported in the maximum number of research papers were *Acremonium* sp., *Alternaria alternata, Alternaria* sp., *Aspergillus* sp., *Aureobasidium pullulans, Chaetomium globosum, Cladosporium cladosporioides, Cladosporium* sp., *Colletotrichum gloeosporioides, Colletotrichum* sp. *Fusarium oxysporum, Fusarium* sp., *Nigrospora* sp., *Penicillium* sp., *Pestalotiopsis* sp., *Phoma* sp., *Phomopsis* sp., *Trichoderma* sp., *Xylaria* sp. etc. This suggests that, probably, these endophytes have a wider host range. From an evolutionary point of view also, perhaps they have evolved with necessary adaptations to thrive on a wider host range.

More than 2770 endophytic fungi have been recorded and listed in our table based on literature (Table 1). This number may continuously increase as more reports on endophytic fungi are pouring in. Out of the 2771 endophytic fungi listed that belong to 877 genera, totally 2224 fungal names have species names. The remaining 530 taxa are also included in the table, though, the specific epithets are not given in the original publications, not to miss the diverse genera that are recorded in endophytic fungal studies. Many of these names come from recent molecular inputs (Wang et al. 2005, Hu et al. 2007, Ko et al. 2011, Guo et al. 2003). Since traditional methods

depend on cultivation and direct observations, the information was only limited to the morphotypes in the case of non–sporulating isolates and hence cannot be categorized into any taxonomic units. Even though various techniques may promote induced sporulation (Guo et al. 1998), the processes, however, are slow and not fully foolproof as the fast-growing species may outcompete the desired ones. Therefore, molecular approaches that are culture-dependent or independent need to be continuously adapted in future also to resolve such issues.

It is evident from Table 1 presented here that the hosts studied for the endophytic fungal isolation are dominated by Angiosperms (80%). This is followed by hosts falling under pinophyta which constitute 10% of the hosts studied. Several studies have been carried out on hosts belonging to Poaceae family, i.e., grasses. Studies on the association of temperate grasses with epichloae endophytes have evidenced that endophytes confer bio–protective benefits to hosts by synthesizing different kinds of secondary metabolites.

In this review, we have examined the data from different angles including different continents, different countries, different climatic zones in addition to different hosts. To our surprise, we find that most of the information on geographic distribution of the endophytic fungi comes from Asia. Considering the fact that Asia is the largest continent, it is understandable that more research has been carried out from this region, which is approximately 38%. This is contrary to other fungal diversity research, where a lot of contribution came from Europe and North America, due to the fact that more mycologists have spent time on fungal diversity surveying extensively from temperate regions. But when tropics were explored for fungal diversity a large number of fungi have been reported from Asia (Hyde et al. 2018). Within the Asian continent, a large number of reports have come from India and China (Fig. 4). This is followed by reports from European continent (>24%). North America and South America (13.5% and 15%, respectively) also share almost equal number of publications on fungal endophytes. Interestingly Antarctica also has been investigated for endophytic fungi (1.8%). As part of geographical and distributional diversity analysis of endophytic fungi from different countries, we have generated a heat map (Fig. 5), which provides the frequency of reports of endophytic fungi emanated from respective countries.

Conclusion

Occupation of privileged niches (internal tissues of living leaves) by endophytic fungi and their interactions with their hosts is a cryptic phenomenon. The study of the diversity and distribution of endophytic fungi is still incomplete as extensive terrains, vast tracts on the earth and a large number of plant hosts are yet to be fully explored. The diversity and numbers of endophytic fungi may considerably depend on various biotic, abiotic and experimental factors (Torres et al. 2007). Colonization and establishment of rare species are affected more by the location of the host and is proportional to the magnitude of sampling (Petrini & Fisher 1986, Gamboa et al. 2003). Similarly, intensive sampling of limited host tissues from various locations and different hosts from similar locations gives more insights than sampling only a single host in different locations (Mueller 2011). Most research relies on the emerging endophytes from the sterilized tissues of the hosts (Devarajan & Suryanarayanan 2006) when cultured on suitable growth media. But many studies have shown that several fungi are unable to grow on synthetic media (Tao et al. 2008), or may get overlooked by fast-growing fungi due to slow growth (Zhu et al. 2008), or require some specific nutrients for growth (Jeewon & Hyde 2007, Van Wyk et al. 2007). Therefore, the probability of not isolating many endophytic fungi through the traditional approaches is high (Guo et al. 2001, Hyde & Soytong 2008). Therefore, these kinds of biases in methodologies may not provide a true picture of diversity of endophytic communities (Torres et al. 2011).

In most of the studies on endophytic fungi, it is observed that the number of non–sporulating isolates of endophytic fungi is more when compared to the sporulating ones. They mostly belong to the Ascomycetes and are asexual (Huang et al. 2001). Categorizing only these sterile isolates into morphotypes gives an incomplete picture of fungal diversity. To overcome this problem, Guo et al. (1998) suggested ways to induce sporulation in the sterile endophytes. One of the suggestions was

to grow the isolated cultures by amending host extract into the growth media to produce spores (Matsushima 1971).

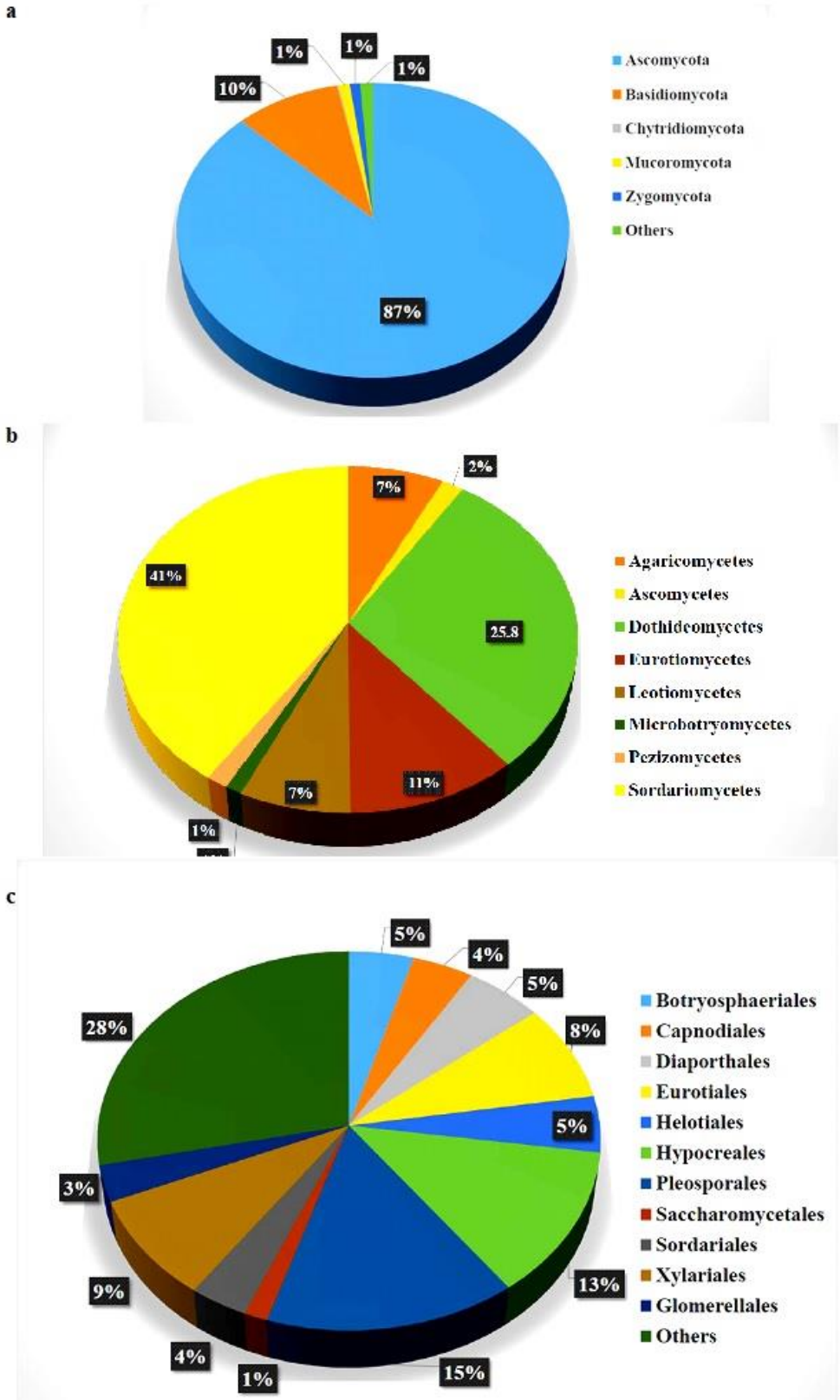

Figure 1 – The percentage frequency of divisions, classes and orders of endophytic fungi. Pie chart showing the frequency percentage occurrence of (a) Divisions, (b) Classes, and (c) Orders of endophytic fungi listed here.

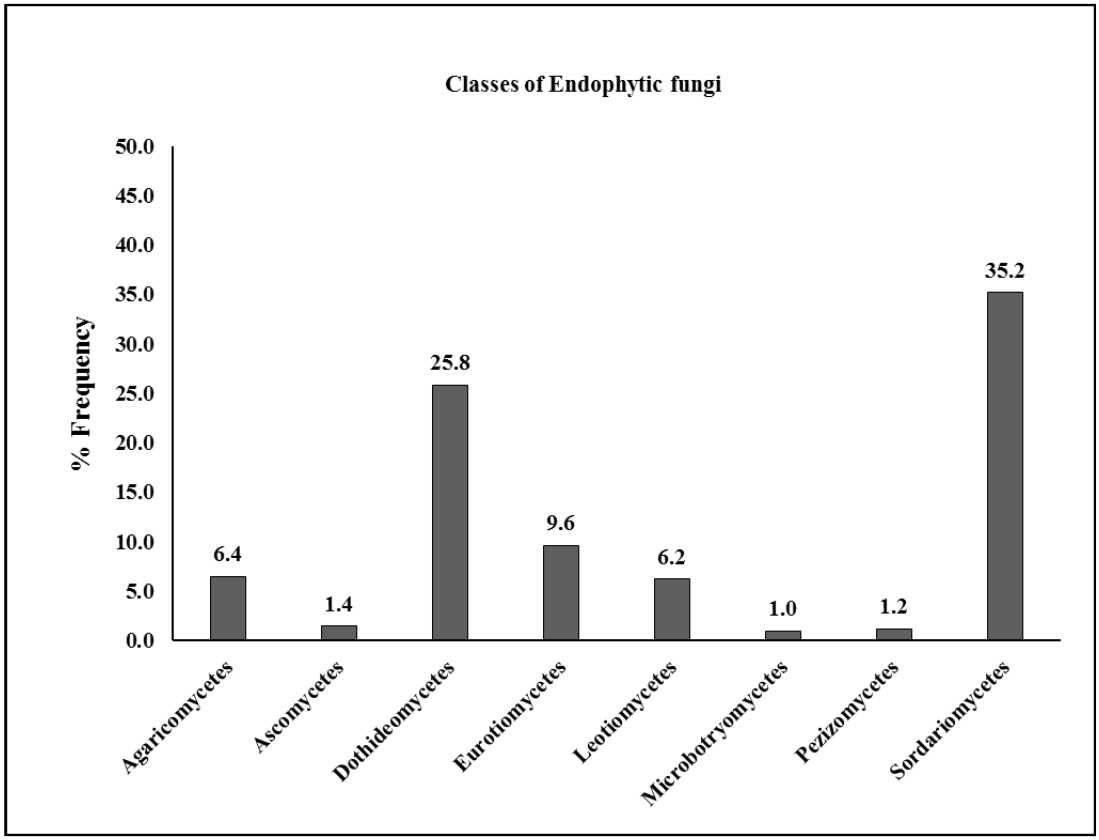

Figure 2 – The percentage frequency of classes of endophytic fungi.

a

Divisions	Frequency Percentage
Ascomycota	87.38
Basidiomycota	9.42
Chytridiomycota	0.15
Mucoromycota	0.99
Zygomycota	0.92
Others	1.14

b

Class	Frequency Percentage
Agaricomycetes	6.4
Ascomycetes	1.4
Dothideomycetes	25.7
Eurotiomycetes	9.6
Leotiomycetes	6.2
Microbotryomycetes	0.9
Pezizomycetes	1.2
Pucciniomycetes	0.07
Sordariomycetes	35.1

c

Order	Frequency Percentage
Botryosphaeriales	4.5
Capnodiales	4.2
Diaporthales	5.4
Eurotiales	8.2
Helotiales	4.8
Hypocreales	12.5
Pleosporales	15.02
Saccharomycetales	1.4
Sordariales	3.5
Xylariales	8.7
Glomerellales	3.08

Table 2 – Table showing the percentage occurence of various divisions, classes and orders of endophytic fungi

Table 3 Table showing the most speciose genera reported among endophytic fungi.

Most speciose genera	No. of species reported here
Penicillium	103
Alternaria	61
Colletotrichum	78
Fusarium	59

Table 3 Continued.

Most speciose genera	No. of species reported here
Aspergillus	52
Phoma	37
Phomopsis	34
Pestalotiopsis	53
Xylaria	40
Phomopsis	37
Diaporthe	43
Acremonium	26
Chaetomium	25
Trichoderma	25
Curvularia	23

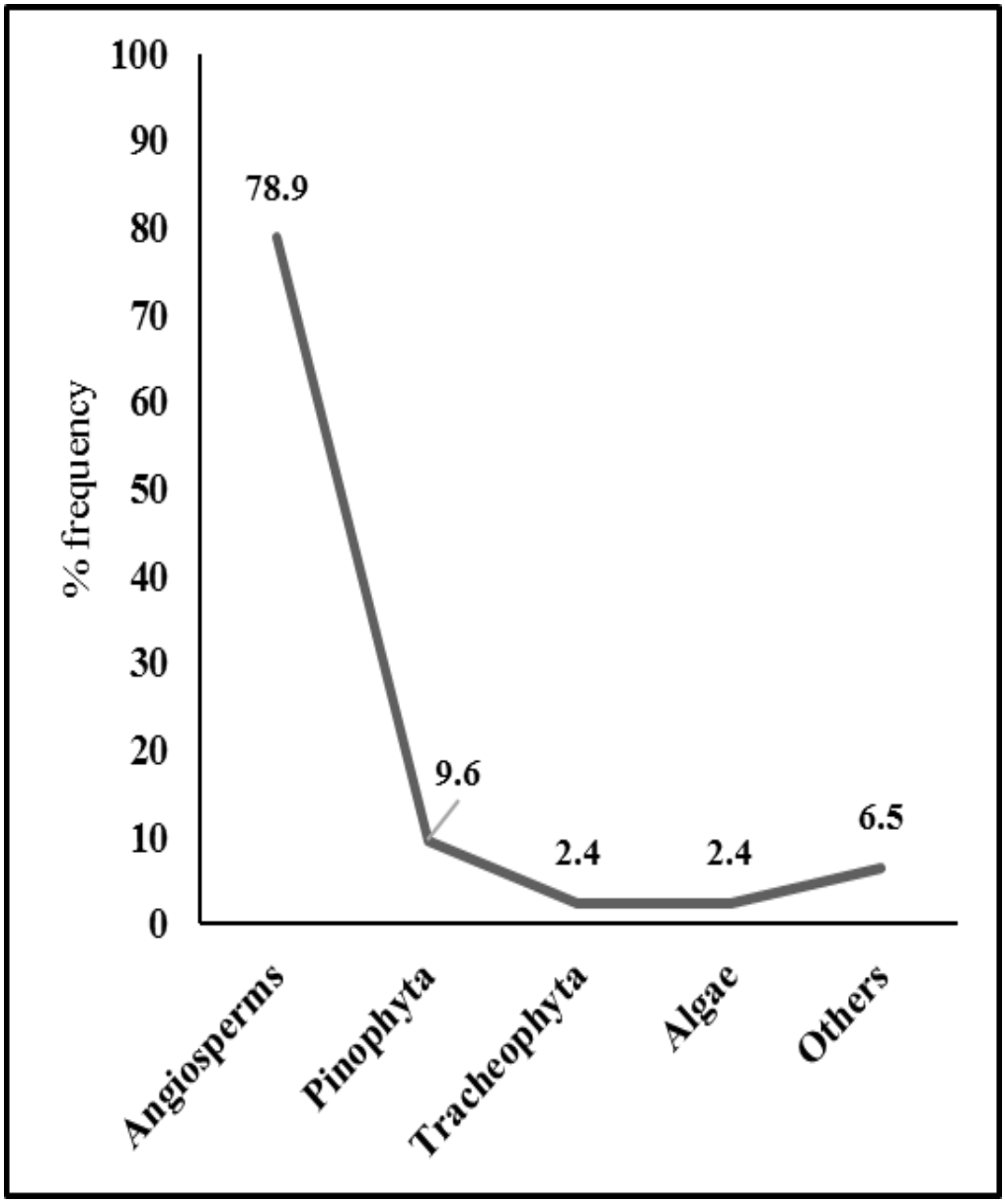

Figure 3 – Graph showing the percentage frequency of the different clades of hosts from which endophytic fungi have been isolated.

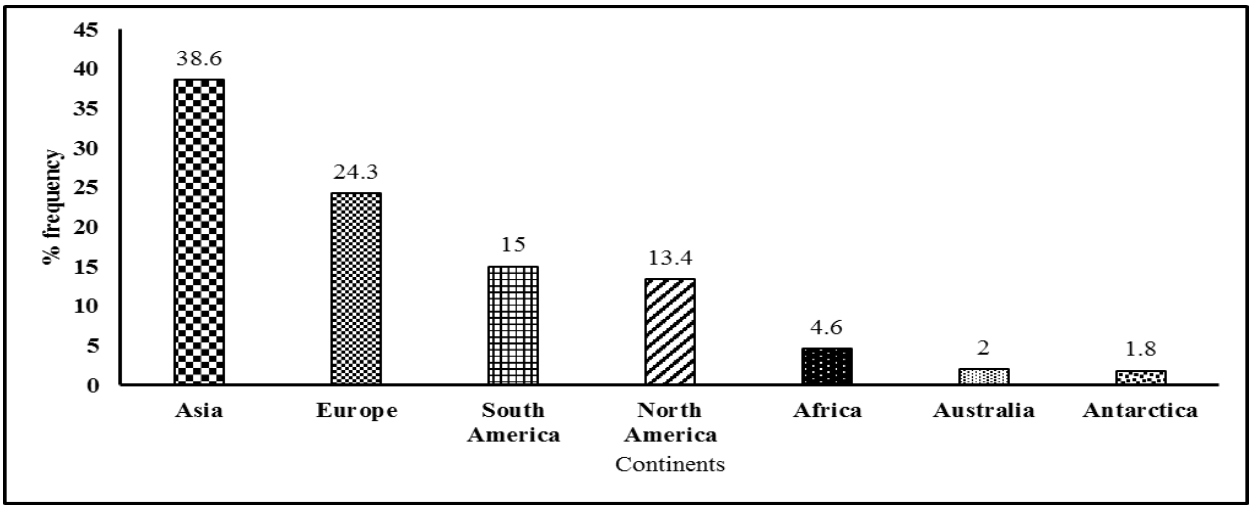

Figure 4 – Graph representing the frequency of isolation of endophytic fungi from different continents.

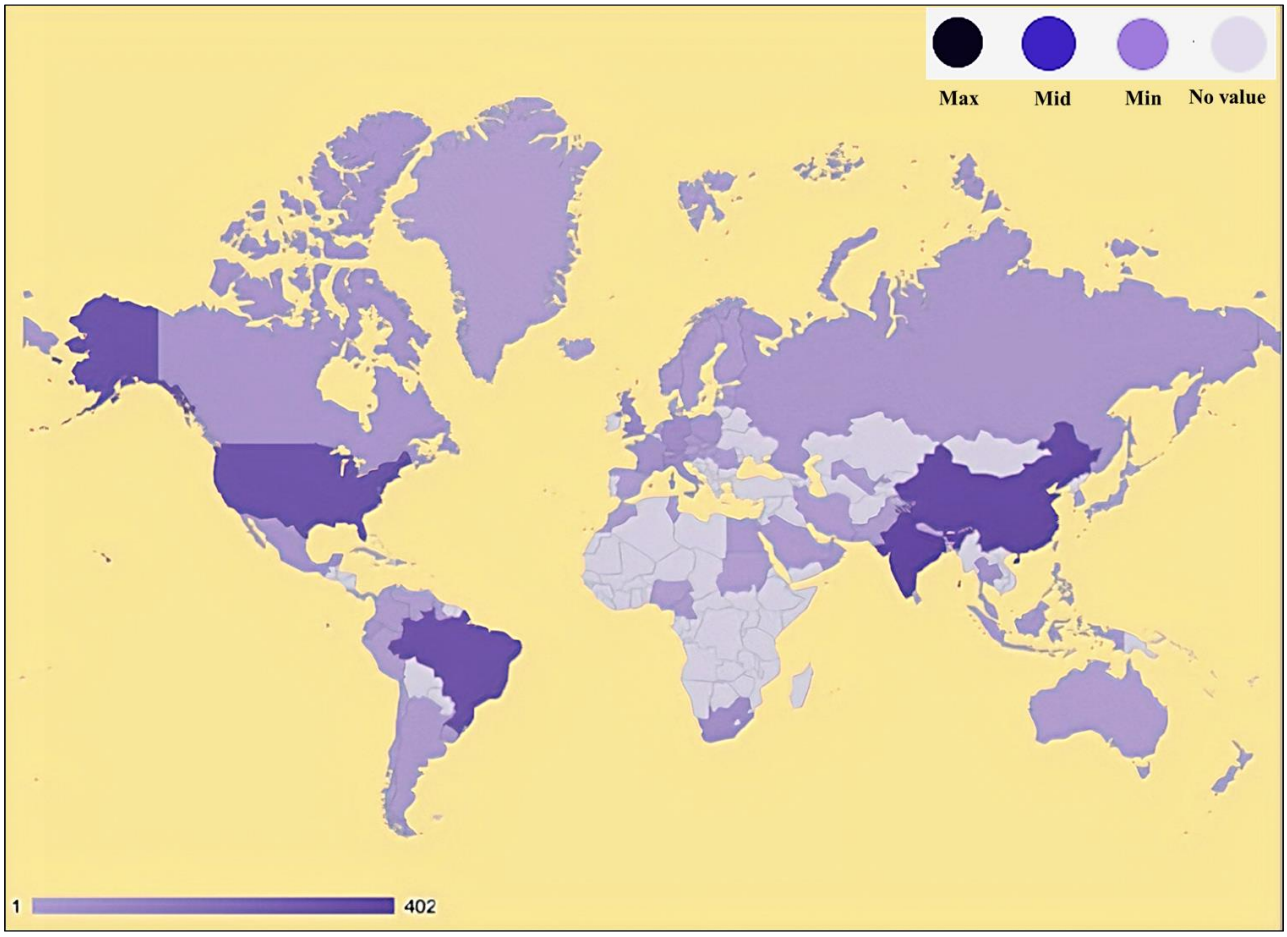

Figure 5 – Heat Map: A heat map of the world, representing the frequency of isolation of endophytic fungi from different countries of the world. The dark shade represents the highest frequency followed by a decrease in the shade with decrease in the frequency of the isolation.

Exploring more such strategies to promote sporulation for identification, in future, may solve this problem. The majority of the endophytic fungi that are rare in their occurrence often get missed due to few dominant ones (Petrini 1991). Novel techniques such as those that promote retrieval of slow growers and restrict the faster growers need to be explored in endophytic fungal research.

Particle filtration, fragment culturing and dilution-to-extinction methods may circumvent this problem to some extent (Arnold et al. 2007, Collado et al. 2007, Polishook et al. 1996). Sun & Guo (2012) have summarized and compared the traditional as well as molecular methods in identification of endophytes. There is a dire need to explore novel DNA sequencing methods as well to recover those hidden endophytes (Guerreiro et al. 2018). Use of molecular methods to identify the sterile species, detecting endophytes within the host tissues through DGGE and sequencing, pyrosequencing for metagenomic and metagenomic analyses, DNA barcoding etc. may prove to be promising approaches towards the endophytic fungal diversity studies.

Future Perspectives:

With the advent of molecular sequencing techniques, various molecular methods are providing us an insight into endophytic fungal diversity the mycocommunities. These molecular techniques are complementing traditional approaches. They also provide a better understanding of culture-free endophytic fungal diversity. Various approaches to isolate and culture the missing uncultivable endophytes, including optimization of conditions, will enhance the research capabilities to study endophytic diversity. Non–sporulating cultures, which are mostly not accepted by depositories, might also earn more importance and contribute to disease control. Besides, we also need many collection and deposition centers to preserve the cultures of endophytes with relevant information about their ecological importance. The endophytic fungi have several biochemical attributes that may contribute to the ever-increasing demand for novel natural drugs for humanity, in biocontrol, as growth promoters in agriculture, remediation, bio–transformations, heavy metal accumulation. Connecting the diversity of different taxonomic groups with above aspects may provide some clues in drug discovery. A sampling of the hosts and characterizing the diversity of fungal endophytes, require modern techniques and technologies to better understand ecological as well as therapeutic roles (Saikkonen 2007, Rodriguez et al. 2009).

References

Abdel-Motaal FF, El-Zayat SA, Kosaka Y, El-Sayed MA et al. 2009 – Four novel ustilaginomycetous anamorphic yeast species isolated as endophytes from the medicinal plant *Hyoscyamus muticus*. Asian Journal of Plant Sciences 88, 526–535.

Abdel-Motaal FF, Nassar MS, El-Zayat SA, El-Sayed MA et al. 2010 – Antifungal activity of endophytic fungi isolated from Egyptian henbane *Hyoscyamus muticus* L. Pakistan Journal of Botany 424, 2883–2894.

Abdulmyanova LI, Fayzieva FK, Ruzieva DM, Karimov FA et al. 2015 – Antimicrobial activity of endophytic fungi from *Ferula foetida*. International Journal of Current Microbiology and Applied Sciences 411, 154–159.

Abhini, Zuhara F. 2016 – Isolation and molecular differentiation of fungal endophytes from medicinal plants as a source of l–asparaginase enzyme. Indo American Journal of Pharmaceutical Research, 6, 6862–6868.

Abubacker MN, Devi PK. 2014 – *In vitro* antifungal potentials of bioactive compound oleic acid, 3-octadecyloxy propyl ester isolated from *Lepidagathis cristata* Willd. Acanthaceae inflorescence. Asian Pacific Journal of Tropical Medicine 7, S190–S193.

Adeyemi AI. 2015 – Isolation and screening of endophytic fungi from three plants used in traditional medicine in Nigeria for antimicrobial activity. International Journal of Green Pharmacy 91, 58–62.

Abdollahi AS, Fotouhifar K. 2016 – New reports of endophytic fungi associated with cherry *Prunus avium* and sour cherry *Prunus cerasus* trees in Iran. Mycologia Iranica, 3, 75–85.

Aghdam SA, Fotouhifar KB. 2017 – Identification of some endophytic fungi of cherry trees *Prunus avium* in Iran. Iranian Journal of Plant Protection Science 481, 43–57.

Ahmadpour A, Heidarian Z, Karami S, Tsukiboshi T et al. 2012 – New species of *Bipolaris* and *Curvularia* on grass species in Iran. Rostaniha 131, 69–82.

Akone SH, Daletos G, Lin W, Proksch P. 2016 – Unguisin F, a new cyclic peptide from the endophytic fungus *Mucor irregularis*. Zeitschrift für Naturforschung C 711–2, 15–19.
Albores V, Adriano L, Salvador M. 2005 – Isolation of endophytic fungi and their mycorrhizal potential for the tropical epiphytic orchids *Cattleya skinneri*, *C. aurantiaca* and *Brassa vola nodosa*. Asian Journal of Plant Sciences 4, 309–315.
Albrectsen BR, Björkén L, Varad A, Hagner Å et al. 2010 – Endophytic fungi in European aspen *Populus tremula* leaves – diversity, detection, and a suggested correlation with herbivory resistance. Fungal Diversity 411, 17–28.
Aly AH, Debbab A, Kjer J, Proksch P. 2010 – Fungal endophytes from higher plants: a prolific source of phytochemicals and other bioactive natural products. Fungal Diversity 41, 1–16.
Amin N, Daha L, Agus N, Akello JT et al. 2007 – Isolation and identification of endophytic fungi from cocoa plant resistante VSD M 05 and cocoa plant suscebtible VSD M 01 in South Sulawesi. Indonesia Journal of Entomology 113, 34–42.
Amirita A, Sindhu P, Swetha J, Vasanthi NS et al. 2012 – Enumeration of endophytic fungi from medicinal plants and screening of extracellular enzymes. World Journal of Science and Technology 22, 13–19.
Ananda K, Sridhar KR. 2002 – Diversity of endophytic fungi in the roots of mangrove species on the west coast of India. Canadian Journal of Microbiology 4810, 871–878.
Rocha AC, Garcia D, Uetanabaro AP, Carneiro RT et al. 2011 – Foliar endophytic fungi from *Hevea brasiliensis* and their antagonism on *Microcyclus ulei*. Fungal Diversity 47:75–84.
Andrade–Linares DR, Grosch R, Franken P, Rexer KH et al. 2011 – Colonization of roots of cultivated *Solanum lycopersicum* by dark septate and other ascomycetous endophytes. Mycologia 1034, 710–721.
Angelini P, Rubini A, Gigante D, Reale L et al. 2012 – The endophytic fungal communities associated with the leaves and roots of the common reed *Phragmites australis* in Lake Trasimeno Perugia, Italy in declining and healthy stands. Fungal Ecology 56, 683–693.
Anisha C, Radhakrishnan EK. 2017 – Metabolite analysis of endophytic fungi from cultivars of *Zingiber officinale* Rosc identifies myriad of bioactive compounds including tyrosol. 3 Biotech 72, 146.
Arachevaleta M, Bacon CW, Hoveland CS, Radcliffe DE. 1989 – Effect of the tall fescue endophyte on plant response to environmental stress. Agronomy journal 81 83–90.
Araujo AR, Habeck TR, Gubiani JR, Silva DS et al. 2013 – Phenolics compounds produced by *Camarops* sp. an endophytic fungus from *Alibertia macrophylla* Rubiaceae. Planta Medica 7913, PI8.
Araújo WL, Maccheroni Jr W, Aguilar–Vildoso CI, Barroso PA et al. 2001 – Variability and interactions between endophytic bacteria and fungi isolated from leaf tissues of citrus rootstocks. Canadian journal of microbiology 473, 229–236.
Arenal F, Platas G, Pelaez F. 2007 – A new endophytic species of *Preussia* Sporormiaceae inferred from morphological observations and molecular phylogenetic analysis. Fungal Diversity 25, 1–17.
Arnold AE. 2007 – Understanding the diversity of foliar endophytic fungi, progress, challenges, and frontiers. Fungal biology reviews 21, 51–66
Arnold AE. 2008 – Endophytic fungi, hidden components of tropical community ecology. Tropical forest community ecology 178–188.
Arnold AE, Henk DA, Eells RL, Lutzoni F et al. 2007 – Diversity and phylogenetic affinities of foliar fungal endophytes in loblolly pine inferred by culturing and environmental PCR. Mycologia 99, 185–206.
Arnold AE, Herre EA. 2003 – Canopy cover and leaf age affect colonization by tropical fungal endophytes: Ecological pattern and process in *Theobroma cacao* (Malvaceae) Mycologia 95, 388–398.
Arnold AE, Lutzoni F. 2007 – Diversity and host range of foliar fungal endophytes: are tropical leaves biodiversity hotspots? Ecology 883, 541–549.

Arnold AE, Maynard Z, Gilbert GS, Coley P et al. 2000 – Are tropical fungal endophytes hyperdiverse? Ecology Letters 3, 267–274.
Arnold AE, Mejía LC, Kyllo D, Rojas EI et al. 2003 – Fungal endophytes limit pathogen damage in a tropical tree. Proceedings of the National Academy of Sciences 100, 15649–15654.
Arya P, Sati SC. 2011 – Evaluation of endophytic aquatic hyphomycetes for their antagonistic activity against pathogenic bacteria. International Research Journal of Microbiology 29, 343–7.
Atsatt PR, Whiteside MD. 2014 – Novel symbiotic protoplasts formed by endophytic fungi explain their hidden existence, lifestyle switching, and diversity within the plant kingdom. PLoS One 94, e95266.
Azeez LA, Muid S, Hasnul BM. 2016 – Identification of volatile secondary metabolites from an endophytic microfungus *Aspergillus nomius* KUB105. Malaysian Journal of Analytical Sciences 204, 751–759.
Bacon CW, White J. 2000 – Microbial endophytes. CRC Press.
Badali H, Gueidan C, Najafzadeh MJ, Bonifaz A et al. 2008 – Biodiversity of the genus *Cladophialophora*. Studies in Mycology 61, 175–191.
Baker S, Satish S. 2012 – Endophytes: natural warehouse of bioactive compounds. Drug Invention Today 411, 548–553.
Balakumaran MD, Ramachandran R, Kalaichelvan PT. 2015 – Exploitation of endophytic fungus, *Guignardia mangiferae* for extracellular synthesis of silver nanoparticles and their in vitro biological activities. Microbiological research, 178, 9–17.
Baucom DL, Romero M, Belfon R, Creamer R. 2012 – Two new species of *Undifilum*, fungal endophytes of *Astragalus* locoweeds in the United States. Botany 909, 866–875.
Bayman P. 2006 – Diversity, scale and variation of endophytic fungi in leaves of tropical plants. Microbial ecology of aerial plant surfaces 37–50.
Bayman P, Lebron LL, Tremblay RL, Lodge DJ. 1997 – Variation in endophytic fungi from roots and leaves of *Lepanthes Orchidaceae*. The New Phytologist 1351, 143–149.
Baynes MA, Russell DM, Newcombe G, Carta LK et al. 2012 – A mutualistic interaction between a fungivorous nematode and a fungus within the endophytic community of *Bromus tectorum*. Fungal ecology 55, 610–623.
Bernstein ME, Carroll GC. 1977 – Microbial populations on Douglas fir needle surfaces. Microbial ecology 4, 41–52.
Bettucci L. 2013 – Endophytic Fungi from Uruguayan Native Myrtaceae: Enzymes Production, Antimicrobial and Phytotoxic Activity. International Journal of Sciences 22013–11, 96–103.
Bettucci L, Saravay M. 1993 – Endophytic fungi of *Eucalyptus globulus*: a preliminary study. Mycological Research 976, 679–682.
Bezerra JD, Nascimento CC, Barbosa RDN, da Silva DC et al. 2015 – Endophytic fungi from medicinal plant *Bauhinia forficata*: Diversity and biotechnological potential. Brazilian Journal of Microbiology 461, 49–57.
Bezerra JD, Sandoval Denis M, Paiva LM, Silva GA et al. 2017 – New endophytic *Toxicocladosporium* species from cacti in Brazil, and description of *Neocladosporium* gen nov. IMA fungus 81, 77–97.
Bezerra JDP, Santos MGS, Svedese VM, Lima DMM et al. 2012 – Richness of endophytic fungi isolated from *Opuntia ficus–indica* Mill Cactaceae and preliminary screening for enzyme production. World Journal of Microbiology and Biotechnology 285, 1989–1995.
Bhagobaty RK, Joshi SR. 2009 – Promotion of seed germination of Green gram and Chick pea by *Penicillium verruculosum* RS7PF, a root endophytic fungus of *Potentilla fulgens* L. Advanced Biotech 87, 16–18.
Bhagobaty RK, Joshi SR. 2012 – Enzymatic activity of fungi endophytic on five medicinal plant species of the pristine sacred forests of Meghalaya, India. Biotechnology and bioprocess engineering 171, 33–40.

Bharathidasan R, Panneerselvam A. 2011 – Biodiversity of the endophytic fungi isolated from *Avicennia marina* in Ramanathapuram District, Karankadu. World Journal of Science and Technology Research 19, 1–5.
Bhattacharyya LH, Borah G, Parkash V, Bhattacharyya PN. 2017 – Fungal endophytes associated with the ethnomedicinal *plant Meyna spinosa* Roxb. Current Life Sciences 31, 1–5.
Bills GF, Menéndez VG, Platas G. 2012 – *Kabatiella bupleuri* sp nov. Dothideales, a pleomorphic epiphyte and endophyte of the Mediterranean plant *Bupleurum gibraltarium* Apiaceae. Mycologia 1044, 962–973.
Bills GF, Polishook JD. 1992 – Recovery of endophytic fungi from *Chamaecyparis thyoides*. Sydowia 44, 01–12.
Bongiorno VA, Rhoden SA, Garcia A, Polonio JC et al. 2016 – Genetic diversity of endophytic fungi from *Coffea arabica* cv IAPAR–59 in organic crops. Annals of Microbiology 662, 855–865.
Botella L, Diez JJ. 2011 – Phylogenic diversity of fungal endophytes in Spanish stands of *Pinus halepensis*. Fungal Diversity 471, 9–18.
Botnen S, Vik U, Carlsen T, Eidesen PB et al. 2014 – Low host specificity of root-associated fungi at an Arctic site. Molecular ecology 23, 975–985.
Bougoure JJ, Dearnaley J. 2005 – The fungal endophytes of *Dipodium variegatum* Orchidaceae. Australasian Mycologist 241, 15–19.
Brown KB, Hyde KD, Guest DI. 1998 – Preliminary studies on endophytic fungal communities of *Musa acuminata* species complex in Hong Kong and Australia. Fungal diversity 1, 27–51.
Brum MCPD, Araujo WLD, Maki CS, Azevedo JLD. 2012 – Endophytic fungi from *Vitis labrusca* L'Niagara Rosada' and its potential for the biological control of *Fusarium oxysporum*. Genetics and Molecular Research 114, 4187–4197.
Budziszewska J, Szypuła W, Wilk M, Wrzosek M. 2011 – *Paraconiothyrium babiogorense* sp. nov, a new endophyte from fir club moss *Huperzia selago* Huperziaceae. Mycotaxon 1151, 457–468.
Bussaban B, Lumyong S, Lumyong P, McKenzie EH et al. 2001 – Endophytic fungi from *Amomum siamense*. Canadian Journal of Microbiology 47, 943–948.
Bush LP, Wilkinson HH, Schardl CL. 1997 – Bioprotective alkaloids of grass–fungal endophyte symbioses. Plant physiology 1141, 1.
Camatti-Sartori V, Da Silva-Ribeiro RT, Valdebenito-Sanhueza RM, Pagnocca FC et al. 2005 – Endophytic yeasts and filamentous fungi associated with southern Brazilian apple *Malus domestica* orchards subjected to conventional, integrated or organic cultivation. Journal of Basic Microbiology: An International Journal on Biochemistry, Physiology, Genetics, Morphology, and Ecology of Microorganisms 455, 397–402.
Campos FF, Junior S, Policarpo A, Romanha AJ et al. 2015 – Bioactive endophytic fungi isolated from *Caesalpinia echinata* Lam Brazil wood and identification of beauvericin as a trypanocidal metabolite from *Fusarium* sp. Memórias do Instituto Oswaldo Cruz 1101, 65–74.
Cannon PF, Simmons CM. 2002 – Diversity and host preference of leaf endophytic fungi in the Iwokrama Forest Reserve, Guyana. Mycologia 942, 210–220.
Carroll GC, Carroll FE. 1978 – Studies on the incidence of coniferous needle endophytes in the Pacific Northwest. Canadian Journal of Botany 5624, 3034–3043.
Castro BL, Carreño AJ, Galeano NF, Roux J et al. 2013 – Identification and genetic diversity of *Rosellinia* spp associated with root rot of coffee in Colombia. Australasian Plant Pathology 425, 515–523.
Chen J, Zhang LC, Xing YM, Wang YQ et al. 2013 – Diversity and taxonomy of endophytic xylariaceous fungi from medicinal plants of *Dendrobium* Orchidaceae. PloS one 83, e58268.
Cheng MJ, Wu MD, Chen JJ, Cheng YC et al. 2014 – Secondary metabolites from the endophytic fungus *Annulohypoxylon stygium* BCRC 34024 Chemistry of natural compounds 502, 237–241.

Cheng MJ, Wu MD, Yanai H, Su YS et al. 2012 – Secondary metabolites from the endophytic fungus *Biscogniauxia formosana* and their antimycobacterial activity. Phytochemistry Letters 53, 467–472.
Chhetri BK, Maharjan S, Budhathoki U. 2013 – Endophytic fungi associated with twigs of *Buddleja asiatica* lour. Journal of Engineering Science and Technology 91, 90–95.
Chobba IB, Elleuch A, Ayadi I, Khannous L et al. 2013 – Fungal diversity in adult date palm *Phoenix dactylifera* L revealed by culture–dependent and culture–independent approaches Journal of Zhejiang University. SCIENCE B 1412, 1084–1099.
Chowdhary K, Kaushik N 2015 – Fungal endophyte diversity and bioactivity in the Indian medicinal plant *Ocimum sanctum* Linn. PLoS One 1011, e0141444.
Chun LY, Xu XL, Wanasinghe DN, Jeewon R et al. 2019 – *Neostagonosporella sichuanensis* gen. et sp. nov. (Phaeosphaeriaceae, Pleosporales) on *Phyllostachys heteroclada* (Poaceae) from Sichuan Province, China. MycoKeys 46, 119–150.
Chutima R, Dell B, Vessabutr S, Bussaban B, Lumyong S. 2011 – Endophytic fungi from *Pecteilis susannae* L. Rafin Orchidaceae, a threatened terrestrial orchid in Thailand. Mycorrhiza 21, 221–229.
Clay K. 1989 – Clavicipitaceous endophytes of grasses, their potential as biocontrol agents. Mycological Research 92, 1–12.
Clay K. 1990 – Fungal endophytes of grasses. Annual review of Ecology and Systematics, 211, 275–297.
Collado J, Platas G, González I, Peláez F. 1999 – Geographical and seasonal influences on the distribution of fungal endophytes in *Quercus ilex*. The New Phytologist 144, 525–532
Collado J, Platas G, Paulus B, Bills GF. 2007 – High–throughput culturing of fungi from plant litter by a dilution–to–extinction technique. FEMS Microbiology Ecology 60(3), 521–533.
Comby M, Lacoste S, Baillieul F, Profizi C et al. 2016 – Spatial and temporal variation of cultivable communities of co–occurring endophytes and pathogens in wheat. Frontiers in microbiology 7, 403.
Connolly SR. 2005 – Process–based models of species distributions and the mid–domain effect. American Naturalist 166, 1–11.
Corrêa RCG, Rhoden SA, Mota TR, Azevedo JL et al. 2014 – Endophytic fungi: expanding the arsenal of industrial enzyme producers. Journal of industrial microbiology biotechnology 4110, 1467–1478.
Cosoveanu A, Gimenez–Marino C, Cabrera Y, Hernandez G et al. 2014 – Endophytic fungi from grapevine cultivars in Canary Islands and their activity against phytopatogenic fungi. International Journal of Agriculture and Crop Sciences 715, 1497.
Cosoveanu A, Hernandez M, Iacomi–Vasilescu B, Zhang X et al. 2016 – Fungi as endophytes in Chinese *Artemisia* spp: juxtaposed elements of phylogeny, diversity and bioactivity. Mycosphere 72, 102–117.
Cosoveanu A, Cabrera R. 2018 – Endophytic Fungi in Species of *Artemisia*. Journal of Fungi, 4, 53.
Cosoveanu A, Rodriguez Sabina S, Cabrera R. 2018b – Fungi as endophytes in *Artemisia thuscula*: Juxtaposed elements of diversity and phylogeny. Journal of Fungi 41, 17.
Costa IP, Maia LC, Cavalcanti MA. 2012 – Diversity of leaf endophytic fungi in mangrove plants of northeast. Brazil Brazilian Journal of Microbiology 433, 1165–1173.
Costa IPMW, Assuncao MMC, Lima TEF, Oliveira RJV et al. 2012 – Checklist of endophytic fungi from tropical regions. Mycotaxon 119, 494.
Crous PW, Petrini O, Marais GF, Pretorius ZA et al. 1995 – Occurrence of fungal endophytes in cultivars of *Triticum aestivum* in South Africa. Mycoscience 361, 105–111.
Cui JL, Guo SX, Xiao PG. 2011 – Antitumor and antimicrobial activities of endophytic fungi from medicinal parts of *Aquilaria sinensis*. Journal of Zhejiang University Science B 125, 385–392.

Daisy BH, Strobel GA, Castillo U, Ezra D et al. 2002 – Naphthalene, an insect repellent, is produced by *Muscodor vitigenus*, a novel endophytic fungus. Microbiology 14811, 3737–3741.

Danagoudar A, Joshi CG, Ravi SK, Kumar HG et al. 2018 – Antioxidant and cytotoxic potential of endophytic fungi isolated from medicinal plant *Tragia involucrata* L. Pharmacognosy Research, 10, 188.

Dang L, Li G, Yang Z, Luo S et al. 2010 – Chemical constituents from the endophytic fungus *Trichoderma ovalisporum* isolated from *Panax notoginseng*. Annals of microbiology 602, 317–320.

Das A, Varma A. 2009 **–** Symbiosis: the art of living, in: Symbiotic Fungi Principles and Practice. (A. Varma and A. C. Kharkwal – Eds). 1–28, Springer, Berlin, Germany.

Das P, Debnath G, Saha AK. 2013 – Endophytic fungal assemblages in an aquatic weed: *Eichhornia crassipes* Mart Solms. Indian Journal of Fundamental and Applied Life Sciences 33, 76–80.

Davey ML, Currah RS 2007 – A new species of *Cladophialophora hyphomycetes* from boreal and montane bryophytes. Mycological Research 1111, 106–116.

Davis EC, Franklin JB, Shaw AJ, Vilgalys R. 2003 – Endophytic *Xylaria* Xylariaceae among liverworts and angiosperms: phylogenetics, distribution, and symbiosis. American Journal of Botany 9011, 1661–1667.

De Abreu LM, Almeida AR, Salgado M, Pfenning LH. 2010 – Fungal endophytes associated with the mistletoe *Phoradendron perrottettii* and its host tree *Tapirira guianensis*. Mycological Progress 94, 559–566.

De Aldana BRV, Bills G, Zabalgogeazcoa I. 2013 – Are endophytes an important link between airborne spores and allergen exposure? Fungal Diversity 601, 33–42.

De Azevedo Silva F, Liotti RG, De Araújo Boleti AP, De Melo Reis et al. 2018 – Diversity of cultivable fungal endophytes in *Paullinia cupana* Mart Ducke and bioactivity of their secondary metabolites. PloS one 134, e0195874.

De Bary A. 1886 – Ueber einige Sclerotinien und Sclero. Botanische Zeitung 44, 377–474.

De Errasti A, Carmarán CC, Novas MV. 2010 – Diversity and significance of fungal endophytes from living stems of naturalized trees from Argentina. Fungal Diversity 411, 29–40.

De Oliveira Chagas MB, Dos Santos IP, Da Silva LCN, Dos Santos Correia MT et al. 2017 – Antimicrobial activity of cultivable endophytic fungi associated with *Hancornia speciosa* gomes bark. The Open Microbiology Journal 11, 179–188.

De Siqueira VM, Conti R, De Araújo JM, Souza-Motta CM. 2011 – Endophytic fungi from the medicinal plant *Lippia sidoides* Cham and their antimicrobial activity. Symbiosis 532, 89–95.

De Silva NI, Brooks S, Lumyong S, Hyde KD. 2019 –Use of endophytes as biocontrol agents, Fungal Biology Reviews 33, 133–148.

De Souza Leite T, Cnossen–Fassoni A, Pereira OL, Mizubuti ESG et al. 2013 – Novel and highly diverse fungal endophytes in soybean revealed by the consortium of two different techniques. Journal of Microbiology 511, 56–69.

De Vries S, von Dahlen JK, Schnake A, Ginschel S et al. 2017 – Broad–spectrum inhibition of *Phytophthora infestans* by root endophytes. FEMS Microbiology Ecology 94, 4, fiy037.

Debbab A, Aly AH, Edrada–Ebel R, Wray V et al. 2009 – Bioactive metabolites from the endophytic fungus *Stemphylium globuliferum* isolated from *Mentha pulegium*. Journal of Natural Products 724, 626–631.

Deng JX, Paul NC, Li MJ, Seo EY et al. 2011 – Molecular characterization and morphology of two endophytic *Peyronellaea* species from *Pinus koraiensis* in Korea. Mycobiology 394, 266–271.

Deshmukh S, Hückelhoven R, Schäfer P, Imani J et al. 2006 – The root endophytic fungus *Piriformospora indica* requires host cell death for proliferation during mutualistic symbiosis with barley. Proceedings of the National Academy of Sciences 10349, 18450–18457.

Deshmukh SK, Verekar SA, Bhave SV. 2015 – Endophytic fungi: a reservoir of antibacterials. Frontiers in microbiology 5, 715.
Devarajan PT, Suryanarayanan TS. 2006 – Evidence for the role of phytophagous insects in dispersal of non–grass fungal endophytes. Fungal Diversity 23, 111–119.
Devari S, Jaglan S, Kumar M, Deshidi R et al. 2014 – Capsaicin production by *Alternaria alternata*, an endophytic fungus from *Capsicum annum*; LC–ESI–MS/MS analysis. Phytochemistry 98, 183–189.
Devi NN, Prabakaran JJ, Wahab F. 2012 – Phytochemical analysis and enzyme analysis of endophytic fungi from *Centella asiatica*. Asian Pacific Journal of Tropical Biomedicine 23, S1280–S1284.
Dhayanithy G, Subban K, Chelliah J. 2019 – Diversity and biological activities of endophytic fungi associated with Catharanthus roseus. BMC microbiology, 19, 22.
Ding T, Jiang T, Zhou J, Xu L et al. 2010 – Evaluation of antimicrobial activity of endophytic fungi from *Camptotheca acuminate* Nysacexe. Genetics and Molecular Research 94, 2104–2112.
Ding X, Liu K, Deng B, Chen W et al. 2013 – Isolation and characterization of endophytic fungi from *Camptotheca acuminate*. World Journal of Microbiology and Biotechnology 2910, 1831–1838.
Ding B, Yin Y, Zhang F, Li Z. 2011 – Recovery and phylogenetic diversity of culturable fungi associated with marine sponges *Clathrina luteoculcitella* and *Holoxea* sp. in the South China Sea. Marine Biotechnology 134, 713–721.
Dissanayake AJ, Phillips AJL, Li XH, Hyde KD. 2016b – Botryosphaeriaceae: Current status of genera and species. Mycosphere 77, 1001–1073
Dissanayake RK, Ratnaweera PB, Williams DE, Wijayarathne CD et al. 2016a – Antimicrobial activities of endophytic fungi of the Sri Lankan aquatic plant *Nymphaea nouchali* and chaetoglobosin A and C, produced by the endophytic fungus *Chaetomium globosum*. Mycology 71, 1–8.
Doilom M, Manawasinghe IS, Jeewon R, Jayawardena RS et al. 2017 – Can ITS sequence data identify fungal endophytes from cultures? A case study from *Rhizophora apiculata*. Mycosphere 8, 1869–1892.
Dos Santos RMG, Rodrigues–Fo E, Rocha WC, Teixeira MFS. 2003 – Endophytic fungi from *Melia azedarach*. World journal of Microbiology and Biotechnology 198, 767–770.
Douanla–Meli C, Langer E. 2012 – Diversity and molecular phylogeny of fungal endophytes associated with *Diospyros crassiflora*. Mycology 33, 175–187.
Douanla–Meli C, Langer E, Mouafo FT. 2013 – Fungal endophyte diversity and community patterns in healthy and yellowing leaves of *Citrus limon*. Fungal Ecology 63, 212–222.
Dreyfuss M. 1984 – Further investigations on the occurrence and distribution of endophytic fungi in tropical plants. Botanica Helvetica 94, 33–40.
D'Souza MA, Bhat DJ. 2013 – Occurrence of microfungi as litter colonizers and endophytes in varied plant species from the Western Ghats forests, Goa, India. Mycosphere 4 (3), 567–582.
D'Souza MA, Hiremath KG. 2015 – Isolation and bioassay screening of medicinal plant endophytes from Western Ghats forests, Goa, India. International Journal of Advanced Research in Biological Sciences 2, 176–190.
Du FY, Li X, Li XM, Zhu LW et al. 2017 – Indolediketopiperazine alkaloids from *Eurotium cristatum* EN–220, an endophytic fungus isolated from the marine alga *Sargassum thunbergii*. Marine drugs 152, 24.
Dudeja SS, Giri R, Saini R, Suneja–Madan P et al. 2012 **–** Interaction of endophytic microbes with legumes. Journal of Basic Microbiology 52, 248–260.
Dui al Banerjee D. 2011 – Endophytic fungal diversity in tropical and subtropical plants. Research Journal of Microbiology 61, 54–62.
Edwards RL, Maitland DJ, Oliver CL, Pacey MS et al. 1999 – Metabolites of the higher fungi Part 31[1], Longianone, a $C_7H_6O_4$ spiro bicyclic lactone from the fungus *Xylaria longiana* (Rehm). Journal of the Chemical Society, Perkin Transactions 1, 6, 715–720.

Egan JM. 2016 – Antimicrobial Compounds from Endophytic Fungi of Goldenseal *Hydrastis* Canadensis Doctoral dissertation, University of North Carolina at Greensboro.

Ek–Ramos MJ, Zhou W, Valencia CU, Antwi JB et al. 2013 – Spatial and temporal variation in fungal endophyte communities isolated from cultivated cotton *Gossypium hirsutum*. PLoS One 86, e66049.

Elavarasi A, Rathna GS, Kalaiselvam M. 2012 – Taxol producing mangrove endophytic fungi *Fusarium oxysporum* from *Rhizophora annamalayana*. Asian Pacific Journal of Tropical Biomedicine 22, S1081–S1085.

El–Nagerabi SA, Elshafie AE, Alkhanjari SS. 2014 – Endophytic fungi associated with endogenous *Boswellia sacra* Biodiversitas Journal of Biological Diversity 15(1).

Elsebai MF, Natesan L, Kehraus S, Mohamed IE et al. 2011 – HLE–inhibitory alkaloids with a polyketide skeleton from the marine–derived fungus *Coniothyrium cereal*. Journal of natural products 7410, 2282–2285.

El-Zayat SA, Nassar MS, El-Hissy FT, Abdel-Motaal FF et al. 2008 – Mycoflora associated with *Hyoscyamus muticus* growing under an extremely arid desert environment Aswan region, Egypt. Journal of basic microbiology 482, 82–92.

Espinosa-Garcia FJ, Langenheim JH 1990 – The endophytic fungal community in leaves of a coastal redwood population diversity and spatial patterns. New Phytologist 1161, 89–97.

Faeth SH, Fagan WF. 2002 – Fungal endophytes: common host plant symbionts but uncommon mutualists. Integrative and Comparative Biology 422, 360–368.

Faeth SH, Gardner DR, Hayes CJ, Jani A et al. 2006 – Temporal and spatial variation in alkaloid levels in *Achnatherum robustum*, a native grass infected with the endophyte *Neotyphodium*. Journal of chemical ecology 32, 307–24.

Faeth SH, Hammon KE. 1997 – Fungal endophytes in oak trees, long-term patterns of abundance and associations with leafminers. Ecology 78, 810–819

Feldman TS, O'Brien HE, Arnold AE. 2008 – Moths that vector a plant pathogen also transport endophytic fungi and mycoparasitic antagonists. Microbial ecology 564, 742–750.

Feng PY, De Hoog GS, Najafzadeh MJ, Van den Ende AG et al. 2014 – *Cladophialophora abundans*, a novel species of Chaetothyriales isolated from the natural environment. Mycological progress 132, 381–391.

Fernandes EG, Pereira OL, da Silva CC, Bento CBP et al. 2015 – Diversity of endophytic fungi in *Glycine max*. Microbiological research 181, 84–92.

Ferreira MC, Cantrell CL, Wedge DE, Gonçalves VN et al. 2017 – Diversity of the endophytic fungi associated with the ancient and narrowly endemic neotropical plant *Vellozia gigantea* from the endangered Brazilian rupestrian grasslands. Biochemical systematics and ecology 71, 163–169.

Ferreira MC, Vieira MDLA, Zani CL, De Almeida A et al. 2015 – Molecular phylogeny, diversity, symbiosis and discover of bioactive compounds of endophytic fungi associated with the medicinal Amazonian plant *Carapa guianensis* Aublet Meliaceae. Biochemical Systematics and Ecology 59, 36–44.

Fierro–Cruz JE, Jiménez P, Coy–Barrera E. 2017 – Fungal endophytes isolated from *Protium heptaphyllum* and *Trattinnickia rhoifolia* as antagonists of *Fusarium oxysporum*. Revista Argentina de microbiologia 493, 255–263.

Fillat Ú, Martín–Sampedro R, Macaya–Sanz D, Martín JA et al. 2016 – Screening of eucalyptus wood endophytes for laccase activity. Process Biochemistry 515, 589–598.

Fisher PJ. 1996 – Survival and spread of the endophyte *Stagonospora pteridiicola* in *Pteridium aquilinum*, other ferns and some flowering plants. New Phytologist 132, 119–122

Fisher PJ, Petrini O. 1988 – Tissue specificity by fungi endophytic in *Ulex europaeus*. Sydowia 40, 46–50.

Fisher PJ, Petrini OSBC, Sutton BC. 1993 – A comparative study of fungal endophytes in leaves, xylem and bark of *Eucalyptus* in Australia and England. Sydowia 452, 338–345.

Flewelling AJ, Currie J, Gray CA, Johnson JA. 2015 – Endophytes from marine macroalgae: promising sources of novel natural products. Current Science 10988, 88–111.
Flewelling AJ, Johnson JA, Gray CA. 2013 – Isolation and bioassay screening of fungal endophytes from North Atlantic marine macroalgae. Botanica Marina 563, 287–297.
Fröhlich J, Hyde KD. 1999 – Biodiversity of palm fungi in the tropics, are global fungal diversity estimates realistic? Biodiversity & Conservation 8, 977–1004.
Gamboa MA, Laureano S, Bayman P. 2003 – Measuring diversity of endophytic fungi in leaf fragments, Does size matter? Mycopathologia 156, 41–45.
Gan H, Churchill AC, Wickings K. 2017 – Invisible but consequential: root endophytic fungi have variable effects on belowground plant–insect interactions. Ecosphere 8(3), e01710.
Gangadevi V, Murugan M, Muthumary J. 2008 – Taxol determination from *Pestalotiopsis pauciseta*, a fungal endophyte of a medicinal plant. Chinese Journal of Biotechnology 248, 1433–1438.
Gangadevi V, Muthumary J 2009 – A novel endophytic taxol–producing fungus *Chaetomella raphigera* isolated from a medicinal plant, *Terminalia arjuna*. Applied biochemistry and biotechnology 1583, 675–684.
Ganley RJ, Brunsfeld SJ, Newcombe G. 2004 – A community of unknown, endophytic fungi in western white pine. Proceedings of the National Academy of Sciences 10127, 10107–10112.
Gao J, Xu AQ, Tang XK. 2011 – Isolation, identification and volatile compound analysis of an aroma–producing endophytic yeast from romaine lettuce. Food Science 23, 33.
Gao XX, Zhou H, Xu DY, Yu CH et al. 2005 – High diversity of endophytic fungi from the pharmaceutical plant, *Heterosmilax japonica* Kunth revealed by cultivation–independent approach. FEMS Microbiology letters 2492, 255–266.
García E, Alonso Á, Platas G, Sacristán S. 2013 – The endophytic mycobiota of *Arabidopsis thaliana*. Fungal Diversity 601, 71–89.
Gashgari R, Gherbawy Y, Ameen F, Alsharari S. 2016 – Molecular characterization and analysis of antimicrobial activity of endophytic fungi from medicinal plants in Saudi Arabia. Jundishapur journal of microbiology 9(1), e26157.
Gasoni L, De Gurfinkel BS. 1997 – The endophyte *Cladorrhinum foecundissimum* in cotton roots: phosphorus uptake and host growth. Mycological Research 1017, 867–870.
Gawas SP, Bhat DJ 2010 – Mycoflora associated with *Aegle marmelos*, a medicinal plant of the forests of Western Ghats, India. Kavaka 37 & 38, 37-46.
Gazis R, Chaverri P 2010 – Diversity of fungal endophytes in leaves and stems of wild rubber trees *Hevea brasiliensis* in Peru. Fungal ecology 33, 240–254.
Gazis R, Skaltsas D, Chaverri P. 2014 – Novel endophytic lineages of *Tolypocladium* provide new insights into the ecology and evolution of Cordyceps–like fungi. Mycologia 1066, 1090–1105.
Gentile A, Rossi MS, Cabral D, Craven KD et al. 2005 – Origin, divergence, and phylogeny of epichloë endophytes of native Argentine grasses. Molecular Phylogenetics and Evolution 35, 196–208
Gezgin Y, Eltem R. 2009 – Diversity of endophytic fungi from various Aegean and Mediterranean orchids saleps. Turkish Journal of Botany 33, 439–445
Gherbawy YA, Elhariry HM. 2014 – Molecular Characterization of Endophytic Fungi Associated with High–Altitude Juniperus Trees and their Antimicrobial Activities. Life Science Journal 11, 19–30
Ghimire SR, Charlton ND, Bell JD, Krishnamurthy YL et al. 2011 – Biodiversity of fungal endophyte communities inhabiting switchgrass *Panicum virgatum* L growing in the native tallgrass prairie of northern Oklahoma. Fungal Diversity 471, 19–27.
Girlanda M, Ghignone S, Luppi AM. 2002 – Diversity of sterile root-associated fungi of two Mediterranean plants. New Phytologist 1553, 481–498.

Glynou K, Ali T, Kia SH, Thines M et al. 2017 – Genotypic diversity in root-endophytic fungi reflects efficient dispersal and environmental adaptation. Molecular ecology 2618, 4618–4630.
Godinho VM, Furbino LE, Santiago IF, Pellizzari FM et al. 2013 – Diversity and bioprospecting of fungal communities associated with endemic and cold–adapted macroalgae in Antarctica. The International Society of Microbial Ecology journal 77, 1434.
Gomes AA, Pinho DB, Cardeal ZL, Menezes HC, et al. 2018 – *Simplicillium coffeanum*, a new endophytic species from Brazilian coffee plants, emitting antimicrobial volatiles. Phytotaxa 333,188–198.
Gond SK, Mishra A, Sharma VK, Verma SK et al. 2012 – Diversity and antimicrobial activity of endophytic fungi isolated from *Nyctanthes arbor–tristis*, a well–known medicinal plant of India. Mycoscience 532, 113–121.
Gonthier P, Gennaro M, Nicolotti G. 2006 – Effects of water stress on the endophytic mycota of *Quercus robur*. Fungal diversity 2169, e80.
Gonzaga LL, Costa LEO, Santos TT, Araújo EF et al. 2015 – Endophytic fungi from the genus *Colletotrichum* are abundant in the *Phaseolus vulgaris* and have high genetic diversity. Journal of applied microbiology 1182, 485–496.
González V, Tello ML 2011 – The endophytic mycota associated with *Vitis vinifera* in central Spain. Fungal Diversity 471, 29–42.
González–Teuber M, Vilo C, Bascuñán–Godoy L 2017 – Molecular characterization of endophytic fungi associated with the roots of *Chenopodium quinoa* inhabiting the Atacama Desert, Chile. Genomics data 11, 109–112.
Götz M, Nirenberg H, Krause S, Wolters H et al. 2006 – Fungal endophytes in potato roots studied by traditional isolation and cultivation–independent DNA–based methods. FEMS microbiology ecology 583, 404–413.
Gouda S, Das G, Sen SK, Shin H–S et al. 2016 – Endophytes: A Treasure House of Bioactive Compounds of Medicinal Importance. Frontiers in microbiology 7, 1538.
Goutam J, Kharwar RN, Tiwari VK, Mishra A et al. 2016 – Isolation and identification of antibacterial compounds isolated from endophytic Fungus *Emericella qaudrilineata*. Natural Products Chemistry & Research 4, 205.
Goveas SW, Madtha R, Nivas SK, D'Souza L. 2011 – Isolation of endophytic fungi from *Coscinium fenestratum* –a red listed endangered medicinal plant Eurasian. Journal of biosciences, 5(1), 48-53.
Gu W. 2009 – Bioactive metabolites from *Alternaria brassicicola* ML–P08, an endophytic fungus residing in *Malus halliana*. World Journal of Microbiology and Biotechnology 25, 1677-1683.
Guerin P. 1898 – On the presence of a mushroom in the chaff. Journal of Botany 12, 230–238.
Guerreiro MA, Brachmann A, Begerow D, Peršoh D. 2018 – Transient leaf endophytes are the most active fungi in 1-year-old beech leaf litter. Fungal diversity 89, 237–251.
Guo BH, Wang YC, Zhou XW, Hu K et al. 2006 – An endophytic taxol–producing fungus BT2 isolated from *Taxus chinensis* var *mairei*. African Journal of Biotechnology 5 (10), 875–877.
Guo LD, Hyde KD, Liew ECY. 1998 – A method to promote sporulation in palm endophytic fungi. Fungal Diversity 1, 109–113.
Guo LD, Hyde KD, Liew ECY. 2000 – Identification of endophytic fungi from *Livistona chinensis* based on morphology and rDNA sequences. New Phytologist, 1473, 617–630.
Guo LD, Hyde KD, Liew ECY. 2001 – Detection and taxonomic placement of endophytic fungi within frond tissues of *Livistona chinensis* based on rDNA sequences. Molecular Phylogenetics and Evolution 20, 1–13.
Guo LD, Huang GR, Wang Y, He WH et al. 2003 – Molecular identification of white morphotype strains of endophytic fungi from *Pinus tabulaeformis*. Mycological Research 107, 680–688.
Gurudatt PS, Priti V, Shweta S, Ramesha BT et al. 2010 – Attenuation of camptothecin production and negative relation between hyphal biomass and camptothecin content in endophytic fungal

strains isolated from *Nothapodytes nimmoniana* Grahm Icacinaceae. Current Science 988, 1006–1010.
Halleen F, Mostert L, Crous PW. 2007 – Pathogenicity testing of lesser–known vascular fungi of grapevines. Australasian Plant Pathology 363, 277–285.
Hamayun M, Hussain A, Khan SA, Kim HY et al. 2017 – Gibberellins producing endophytic fungus *Porostereum spadiceum* AGH786 rescues growth of salt affected soybean. Frontiers in microbiology, 20, 686.
Hammerschmidt L, Wray V, Lin W, Kamilova E et al. 2012 – New styrylpyrones from the fungal endophyte *Penicillium glabrum* isolated from *Punica granatum*. Phytochemistry Letters 53, 600–603.
Hamzah TNT, Lee SY, Hidayat A, Terhem R et al. 2018 – Diversity and characterization of endophytic fungi isolated from the tropical mangrove species, *Rhizophora mucronata*, and identification of potential antagonists against the soil–borne fungus, *Fusarium solani*. Frontiers in microbiology 9, 1707.
Han K, Ji YL, Wang Y, Wang ZW. 2012 – A *Neotyphodium* endophyte from *Festuca myuros* L in Nanjing. China Mycology 33, 201–209.
Haňáčková, Zuzanaz, Havrdová, Ludmilal et al. 2017 – Fungal endophytes in ash shoots–diversity and inhibition of *Hymenoscyphus fraxineus*. Baltic Forestry 231, 89–106.
Hanausek TF. 1898 – Vorlaufige mittheilung uber den von a vogl in der frucht von *lolium temulentum* entdeckten pilz. Berichte der Deutschen Botanischen Gesellschaft 16, 203–207.
Harvey JBJ, Goff LJ. 2010 – Genetic covariation of the marine fungal symbiont *Haloguignardia irritans* Ascomycota, Pezizomycotina with its algal hosts *Cystoseira* and *Halidrys* Phaeophyceae, Fucales along the west coast of North America. Fungal biology 1141, 82–95.
Hawksworth DL. 1988 – The variety of fungal-algal symbioses, their evolutionary significance, and the nature of lichens. Botanical journal of the Linnean Society 96, 3–20
Hernando JBA, Christian JOS, Gesiane da SL, Gabriel FS. 2016 – Endophytic Microorganisms Isolated of Plants Grown in Colombia: A Short Review. Journal of Microbial Biochemical Technology 8, 509–513.
Herrera J, Khidir HH, Eudy DM, Porras–Alfaro A et al. 2010 – Shifting fungal endophyte communities colonize *Bouteloua gracilis*, effect of host tissue and geographical distribution. Mycologia 102, 1012–1026.
Hibbett DS, Binder M, Bischoff JF, Blackwell M et al. 2007 – A higher–level phylogenetic classification of the Fungi. Mycological research 111, 509–547
Higginbotham SJ, Arnold AE, Ibañez A, Spadafora C et al. 2013 – Bioactivity of fungal endophytes as a function of endophyte taxonomy and the taxonomy and distribution of their host plants. PloS one 89, e73192.
Higgins KL, Arnold AE, Miadlikowska J, Sarvate SD et al. 2007 – Phylogenetic relationships, host affinity, and geographic structure of boreal and arctic endophytes from three major plant lineages. Molecular phylogenetics and evolution 42, 543–555.
Hipo RM, Tamang SMA, Gargabite BF, Broñola Hipol RLC. 2015 – Diversity of fungal endophytes isolated from *Marchantia polymorpha* populations from Baguio City. Philippines Bulletin of Environment, Pharmacology and Life Sciences 4, 87–91.
Ho MY, Chung WC, Huang HC, Chung WH et al. 2012 – Identification of endophytic fungi of medicinal herbs of Lauraceae and Rutaceae with antimicrobial property. Taiwania 573, 229–241.
Hoff JA, Klopfenstein NB, McDonald GI, Tonn JR et al. 2004 – Fungal endophytes in woody roots of Douglas-fir *Pseudotsuga menziesii* and ponderosa pine *Pinus ponderosa*. Forest Pathology 344, 255–271.
Hoffman M, Gunatilaka M, Ong J, Shimabukuro M et al. 2008 – Molecular analysis reveals a distinctive fungal endophyte community associated with foliage of Montane oaks in southeastern. Arizona Journal of the Arizona–Nevada Academy of Science 91–100.

Hu H, Jeewon R, Zhou D, Zhou T et al. 2007 – Phylogenetic diversity of endophytic *Pestalotiopsis* species in *Pinus armandii* and *Ribes* spp.: evidence from rDNA and β-tubulin gene phylogenies. Fungal Diversity 24, 1–22.

Hu K, Tan F, Tang K, Zhu S et al. 2006 – Isolation and screening of endophytic fungi synthesizing taxol from *Taxus chinensis* var *mairei*. Journal of Southwest China Normal University Natural Science Edition 311, 134–137.

Huang F, Udayanga D, Wang X, Hou X et al. 2015 – Endophytic *Diaporthe* associated with Citrus: A phylogenetic reassessment with seven new species from China. Fungal Biology, 119, 331–347.

Huang S, Jeewon R, Wanasinghe DN, Manawasinghe IS et al. 2017 – Phylogenetic taxonomy of *Dematiopleospora fusiformis* sp nov (Phaeosphaeriaceae) from Russia. Phytotaxa 316, 239–249.

Huang WY, Cai Y, Surveswaran S, Hyde KD et al. 2009 – Molecular phylogenetic identification of endophytic fungi isolated from three *Artemisia* species. Fungal Diversity 36: 69–88.

Huang WY, Cai YZ, Hyde KD, Corke H et al. 2008 – Biodiversity of endophytic fungi associated with 29 traditional Chinese medicinal plants. Fungal diversity 36, 69–88.

Huang Y, Wang J, Li G, Zheng Z, Su W. 2001 – Antitumor and antifungal activities in endophytic fungi isolated from pharmaceutical plants *Taxus mairei*, *Cephalataxus fortunei* and *Torreya grandis*. FEMS Immunology & Medical Microbiology 31, 163–167

Hussain H, Kliche-Spory C, Al-Harrasi A, Al-Rawahi A et al. 2014 – Antimicrobial constituents from three endophytic fungi. Asian Pacific journal of tropical medicine 7, S224–S227.

Hussain MA, Mahajan V, Rather IA, Awasthi P et al. 2017 - Isolation and identification of growth promoting endophytes from *Artemisia annua* L. and its effects on artemisinin content. Trends in Phytochemical Research 1, 207-14.

Hyde KD. 2007 – Understanding microfungal diversity–a critique. Cryptogamie Mycologie 28, 281–289.

Hyde KD, Norphanphoun C, Chen J, Dissanayake AJ et al. 2018 – Thailand's amazing diversity, up to 96% of fungi in northern Thailand may be novel. Fungal Diversity 93, 215–239.

Hyde KD, Soytong K. 2008 – The fungal endophyte dilemma. Fungal Diversity 33, 163–173.

Hyde KD, Udayanga D, Manamgoda DS, Tedersoo L et al. 2013 – Incorporating molecular data in fungal systematics: a guide for aspiring researchers. Current Research in Environmental & Applied Mycology 3, 1–32.

Isaeva OV, Glushakova AM, Garbuz SA, Kachalkin AV et al. 2010 – Endophytic yeast fungi in plant storage tissues. Biology bulletin 371, 26–34.

Ibrahim M, Sieber TN, Schlegel M 2017 - Communities of fungal endophytes in leaves of *Fraxinus ornus* are highly diverse. Fungal ecology 29, 10-19.

Jahn L, Schafhauser T, Pan S, Weber T et al. 2017 – *Cyanodermella asteris* sp nov Ostropales from the inflorescence axis of *Aster tataricus*. Mycotaxon 1321, 107–123

Jalgaonwala RE, Mohite BV, Mahajan RT. 2017 – A review: natural products from plant associated endophytic fungi. Journal of microbiology and biotechnology research 12, 21–32.

Jami F, Slippers B, Wingfield MJ, Gryzenhout M. 2012 – Five new species of the Botryosphaeriaceae from *Acacia karroo* in South Africa. Cryptogamie Mycologie 333, 245–266.

Jami F, Slippers B, Wingfield MJ, Loots MT et al. 2015 – Temporal and spatial variation of Botryosphaeriaceae associated with *Acacia karroo* in South Africa. Fungal Ecology 15, 51–62.

Janeš D, Kreft S, Jurc M, Seme K et al. 2007 – Antibacterial activity in higher fungi mushrooms and endophytic fungi from Slovenia. Pharmaceutical biology 459, 700–706.

Jeewon R, Liew ECY, Hyde KD. 2004 – Phylogenetic evaluation of species nomenclature of *Pestalotiopsis* in relation to host association. Fungal Diversity 17, 39–55.

Jeewon R, Yeung QS, Wannasinghe DN, Rampadarath S et al. 2018 – Hidden mycota of pine needles: Molecular signatures from PCR–DGGE and Ribosomal DNA phylogenetic characterization of novel phylotypes. Scientific reports 8, 18053.

Jeewon R, Hyde KD. 2007 – Diversity and detection of Fungi from environmental samples: Traditional versus Molecular approaches. In: Varma A., Oelmüller R. (eds) Advanced Techniques in Soil Microbiology. Soil Biology, vol 11. Springer, Berlin, Heidelberg.

Jeewon R, Ittoo J, Mahadeb D, Jaufeerally–Fakim Y et a. 2013 – DNA based identification and phylogenetic characterisation of endophytic and saprobic fungi from *Antidesma madagascariense*, a medicinal plant in Mauritius. Journal of Mycology 781914.

Jeewon R, Wanasinghe DN, Rampadaruth S, Puchooa D et al. 2017 **–** Nomenclatural and identification pitfalls of endophytic mycota based on DNA sequence analyses of ribosomal and protein genes phylogenetic markers: A taxonomic dead end? Mycosphere 8, 1802–1817.

Jia M, Chen L, Xin HL, Zheng CJ et al. 2016 – A Friendly Relationship between Endophytic Fungi and Medicinal Plants: A Systematic Review. Frontiers in Microbiology 7, 906.

Jiang W, Yang G, Zhang C, Fu C. 2011 – Species composition and molecular analysis of symbiotic fungi in roots of *Changnienia amoena* Orchidaceae. African Journal of Microbiology Research 53, 222–228.

Jiaojiao S, Wattanachai P, Kasem S. 2016 – Isolation and identification of endophytic fungi from 10 species palm trees. Journal of Agricultural Technology 12, 349–363.

Jin Z, Li D, Liu T, Yu F et al. 2017 – Cultural endophytic fungi associated with *Dendrobium officinale*: identification, diversity estimation and their antimicrobial potential. Current science 1128, 1690-1697.

Jinu MV, Jayabaskaran C. 2015 – Diversity and anticancer activity of endophytic fungi associated with the medicinal plant *Saraca asoca*. Current Research in Environmental Applied Mycology 53, 169–179.

Jones EG, Stanley SJ, Pinruan U. 2008 – Marine endophyte sources of new chemical natural products: a review. Botanica marina 51, 163-70.

Joseph B, Priya RM. 2011 – Bioactive Compounds from Endophytes and their Potential in American Journal of biochemistry and Molecular biology 1, 291–309

Ju–Kyeong Eo, Min–Seok Choi, Ahn–Heum Eom. 2014 – Diversity of Endophytic Fungi Isolated from Korean *Ginseng* Leaves. Mycobiology 422, 147–151.

Jumpponen ARI, Trappe JM. 1998 – Dark septate endophytes: a review of facultative biotrophic root–colonizing fungi. The New Phytologist 1402, 295–310.

Junker C, Draeger S, Schulz B. 2012 – A fine line–endophytes or pathogens in *Arabidopsis thaliana*. Fungal Ecology 56, 657–662.

Kageyama SA, Mandyam KG, Jumpponen A. 2008 – Diversity, function and potential applications of the root–associated endophytes. In: A. Varma (ed.), Mycorrhiza pp 29–57 – Springer, Berlin, Heidelberg.

Kamalraj S, Sridevi S, Gangadevi V, Venkatesan A et al. 2008 – Effect of NaCl on Biochemical Changes and Endophytic Fungal Assemblages in the Leaves of a Mangrove, *Ceropsis roxiphorguna* Arn. Indian Journal of Science and Technology 14, 1–7.

Kandasamy P, Manogaran S, Dhakshinamoorthy M, Kannan KP. 2015 – Evaluation of antioxidant and antibacterial activities of endophytic fungi isolated from *Bauhinia racemosa* Lam and *Phyllanthus amarus* Schum and Thonn. Journal of Chemical and Pharmaceutical Research 79, 366–379.

Kannan KP, Basheed A, Imdhiyas M, Kannadhasan S et al. 2017 – Mycoendophytes Isolated from *Mimusops elengi* L–A First Report. International Biological and Biomedical Journal 31, 25–29.

Katoch M, Paul A, Singh G, Sridhar SNC. 2017 – Fungal endophytes associated with *Viola odorata* Linn as bioresource for pancreatic lipase inhibitors. BMC Complementary and Alternative Medicine 171, 385.

Katoch M, Pull S. 2017 – Endophytic fungi associated with *Monarda citriodora*, an aromatic and medicinal plant and their biocontrol potential. Pharmaceutical biology 551, 1528–1535.
Kaushik NK, Murali TS, Sahal D, Suryanarayanan TS. 2014 – A search for antiplasmodial metabolites among fungal endophytes of terrestrial and marine plants of southern India. Acta Parasitologica 594, 745–757.
Khan AL, Lee IJ. 2013 – Endophytic *Penicillium funiculosum* LHL06 secretes gibberellin that reprograms *Glycine max* L growth during copper stress. BMC Plant Biology 131, 86.
Khan R, Shahzad S, Choudhary MI, Khan SA et al. 2007 – Biodiversity of the endophytic fungi isolated from *Calotropis procera* Ait R Br. Pakistan Journal of Botany 392233, e2239.
Khan R, Shahzad S, Choudhary MI, Khan SA et al. 2010 – Communities of endophytic fungi in medicinal plant *Withania somnifera*. Pakistan Journal of Botany 422, 1281–1287.
Khan SA, Hamayun M, Kim HY, Yoon HJ et al. 2009 – A new strain of *Arthrinium phaeospermum* isolated from *Carex kobomugi* Ohwi is capable of gibberellin production. Biotechnology letters 312, 283–287.
Khan SA, Hamayun M, Yoon H, Kim HY et al. 2008 – Plant growth promotion and *Penicillium citrinum*. BMC Microbiology 81, 231.
Kharwar RN, Mishra A, Gond SK, Stierle A et al. 2011 – Anticancer compounds derived from fungal endophytes: their importance and future challenges. Natural Product Reports 287, 1208–1228.
Kharwar RN, Mishra A, Sharma VK, Gond SK et al. 2014 – Diversity and biopotential of endophytic fungal flora isolated from eight medicinal plants of Uttar Pradesh, India. In Microbial Diversity and Biotechnology in Food Security pp 23–39 – Springer, New Delhi.
Khidir HH, Eudy DM, Porras–Alfaro A, Herrera J et al. 2010 – A general suite of fungal endophytes dominates the roots of two dominant grasses in a semiarid grassland. Journal of Arid Environments 74, 35–42
Khoyratty S, Dupont J, Lacoste S, Palama TL et al. 2015 – Fungal endophytes of *Vanilla planifolia* across Réunion Island: isolation, distribution and biotransformation. BMC Plant Biology, 151,142.
Khunnamwong P, Surussawadee J, Jindamorakot S, Limtong S. 2014 – *Wickerhamiella siamensis* fa, sp nov, an endophytic and epiphytic yeast species isolated from sugar cane leaf. International Journal of Systematic and Evolutionary Microbiology 6411, 3849–3855.
Kimmons CA, Gwinn KD, Bernard EC. 1990 – Nematode reproduction on endophyte–infected and endophyte–free tall fescue. Plant Disease 74, 757–761.
Kirk PM, Cannon PF, Minter DW, Stalpers JA 2008 – Ainsworth & Bisby's Dictionary of the Fungi. 10th edn Wallingford: CAB International.
Kleczewski NM, Bauer JT, Bever JD, Clay K et al. 2012 – A survey of endophytic fungi of switchgrass Panicum virgatum in the Midwest, and their putative roles in plant growth. Fungal Ecology 55, 521–529.
Ko TW, Stephenson SL, Bahkali AH, Hyde KD. 2011 – From morphology to molecular biology: can we use sequence data to identify fungal endophytes? Fungal Diversity 50, 113–120.
Kohout P, Sýkorová Z, Čtvrtlíková M, Rydlova J et al. 2012 – Surprising spectra of root–associated fungi in submerged aquatic plants. FEMS Microbiology Ecology 801, 216–235.
Koide K, OsonoT, Takeda H. 2005 – Colonization and lignin decomposition of *Camellia japonica* leaf litter by endophytic fungi. Mycoscience 465, 280–286.
Kowalski T, Pawel Z. 2002 – Endophytic fungi in needles of *Pinus nigra* growing under different site conditions. Polish Botanical Journal 472, 251–257.
Kudalkar P, Strobel G, Riyaz–Ul–Hassan S, Geary B et al. 2012 – *Muscodor sutura*, a novel endophytic fungus with volatile antibiotic activities. Mycoscience 534, 319–325.
Kuldau G, Bacon C 2008 – Clavicipitaceous endophytes: their ability to enhance resistance of grasses to multiple stresses. Biological Control 461, 57–71.
Kumar DSS, Hyde KD. 2004 – Biodiversity and tissue–recurrence of endophytic fungi in *Tripterygium wilfordii*. Fungal Diversity 17, 69–90.

Kumar S, Kaushik N. 2012 – Metabolites of endophytic fungi as novel source of biofungicide: a review. Phytochemistry Reviews 114, 507–522.
Kumar S, Kaushik N. 2013 – Endophytic fungi isolated from oil–seed crop *Jatropha curcas* produces oil and exhibit antifungal activity. PloS one 82, e56202.
Kumar S, Kaushik N, Proksch P. 2013 – Identification of antifungal principle in the solvent extract of an endophytic fungus *Chaetomium globosum* from *Withania somnifera*. SpringerPlus 21, 37.
Kumar V, Cheewangkoon R, Gentekaki E, Maharachchikumbura SS et al. 2019 – *Neopestalotiopsis alpapicalis* sp nov a new endophyte from tropical mangrove trees in Krabi Province Thailand. Phytotaxa 3933, 251–262.
Kumaran RS, Kim HJ, Hur BK. 2010 – Taxol promising fungal endophyte, *Pestalotiopsis* species isolated from *Taxus cuspidate*. Journal of bioscience and bioengineering 1105, 541–546.
Kumaran RS, Muthumary J, Hur BK. 2008 – Isolation and Identification of Taxol, an Anticancer Drug from *Phyllosticta melochiae* Yates, an Endophytic Fungus of *Melochia corchorifolia* L. Food Science and Biotechnology 176, 1246–1253.
Kumaresan V. 2002 – Endophytes assemblages in young mature and senescent leaves of *Rhizophora apiculata*: evidence for the role of endophytes in mangrove litter degradation. Fungal Diversity 9, 81–91.
Kumaresan V, Suryanarayanan TS. 2001 – Occurrence and distribution of endophytic fungi in a mangrove community. Mycological Research 10511, 1388–1391.
Kurandawad JM, Lakshman HC. 2014 – Diversity of the endophytic fungi isolated from *Acalypha Indica* Linn–A Promising medicinal plant. International Journal of Scientific and Research Publications 4, 2250–3153.
Kusari P, Kusari S, Spiteller M, Kayser O. 2013a – Endophytic fungi harbored in *Cannabis sativa* L: diversity and potential as biocontrol agents against host plant–specific phytopathogens. Fungal Diversity 601, 137–151.
Kusari S, Pandey SP, Spiteller M. 2013b – Untapped mutualistic paradigms linking host plant and endophytic fungal production of similar bioactive secondary metabolites. Phytochemistry 91, 81–87.
Lacap DC, Hyde KD, Liew ECY. 2003 – An evaluation of the fungal 'morphotype' concept based on ribosomal DNA sequences. Fungal Diversity 12, 53–66.
Larran S, Perelló A, Simón MR, Moreno V. 2007 – The endophytic fungi from wheat *Triticum aestivum* L. World Journal of Microbiology and Biotechnology 234, 565–572.
Lee C, Kim S, Li W, Bang S et al. 2017 – Bioactive secondary metabolites produced by an endophytic fungus *Gaeumannomyces* sp JS0464 from a maritime halophyte *Phragmites communis*. The Journal of antibiotics 706, 737-742.
Lee SK, Lee SK, Bae H, Seo ST et al. 2014 – Effects of water stress on the endophytic fungal communities of *Pinus koraiensis* needles infected by *Cenangium ferruginosum*. Mycobiology 424, 331–338.
Legault D, Dessureault M, Laflamme G. 1989 – Mycoflora of *Pinus banksiana* and *Pinus resinosa* needles. II. Epiphytic fungi. Canadian Journal of Botany 67, 2061–2065.
Lewis GC, Clements RO. 1986 – A survey of ryegrass endophyte *Acremonium loliae* in the UK and its apparent ineffectually on a seedling pest. The Journal of Agricultural Science 1073, 633–638.
Li C, Nan Z, Paul VH, Dapprich PD, Liu Y. 2004 – A new *Neotyphodium* species symbiotic with drunken horse grass *Achnatherum inebrians* in China. Mycotaxon 90, 141–147
Li C, Sarotti AM, Yang B, Turkson J et al. 2017 – A new N–methoxypyridone from the co–cultivation of Hawaiian endophytic fungi *Camporesia sambuci* FT1061 and *Epicoccum sorghinum* FT1062. Molecules 227, 1166.
Li F, Li K, Li X, Wang B. 2011 – Chemical constituents of marine algal–derived endophytic fungus *Exophiala oligosperma* EN–21. Chinese Journal of Oceanology and Limnology 291, 63–67.

Li H, Qing C, Zhang Y, Zhao Z. 2005 – Screening for endophytic fungi with antitumour and antifungal activities from Chinese medicinal plants. World Journal of Microbiology and Biotechnology 218–9, 1515–1519.
Li HY, Li DW, He CM, Zhou ZP et al. 2012a – Diversity and heavy metal tolerance of endophytic fungi from six dominant plant species in a Pb–Zn mine wasteland in China. Fungal Ecology 53, 309–315.
Li HY, Shen M, Zhou ZP, Li T et al. 2012b – Diversity and cold adaptation of endophytic fungi from five dominant plant species collected from the Baima Snow Mountain, Southwest China. Fungal Diversity 541, 79–86.
Li HY, Zhao CA, Liu CJ, Xu XF. 2010 – Endophytic fungi diversity of aquatic/riparian plants and their antifungal activity in vitro. The Journal of Microbiology 481, 1–6.
Li J, Jeewon R, Luo Z, Phookamsak R et al. 2017 – Morphological characterization and DNA based taxonomy of *Fusiconidium* gen. nov with two novel taxa within Melanommataceae (Pleosporales).Phytotaxa 308, 206–218.
Li JL, Sun X, Chen L, Guo LD et al. 2016 – Community structure of endophytic fungi of four mangrove species in Southern China. Mycology 21, 180–190.
Li P, Wu Z, Liu T, Wang Y. 2016 – Biodiversity, Phylogeny, and Antifungal Functions of Endophytic Fungi Associated with *Zanthoxylum bungeanum*. International Journal of Molecular Sciences 179, 1541.
Li WC, Zhou J, Guo SY, Guo LD. 2007 – Endophytic fungi associated with lichens in Baihua mountain of Beijing, China. Fungal Diversity 25, 69–80.
Liang H, Xing Y, Chen J, Zhang D et al. 2012 – Antimicrobial activities of endophytic fungi isolated from *Ophiopogon japonicus* Liliaceae. – BMC Complementary and Alternative Medicine 121, 238.
Liberra K, Lindequist U. 1995 – Marine fungi–a prolific resource of biologically active natural products? Die Pharmazie 50, 583–588.
Lin LC, Ye YS, Lin WR 2019 – Characteristics of root-cultivable endophytic fungi from *Rhododendron ovatum* Planch. Brazilian Journal of Microbiology, 50, 185–93.
Lin X, Huang YJ, Zheng ZH, Su WJ et al. 2010 – Endophytes from the pharmaceutical plant, *Annona squamosa*: isolation, bioactivity, identification and diversity of its polyketide synthase gene. Fungal Diversity 411, 41–51.
Linde CC, May TW, Phillips RD, Ruibal M et al. 2017 – New species of *Tulasnella* associated with terrestrial orchids in Australia. IMA Fungus 81, 28–48.
Linnakoski R, Puhakka–Tarvainen H, Pappinen A. 2012 – Endophytic fungi isolated from *Khaya anthotheca* in Ghana. Fungal Ecology 53, 298–308.
Liu AR, Chen SC, Jin WJ, Zhao PY et al. 2012 – Host specificity of endophytic *Pestalotiopsis* populations in mangrove plant species of South China. African Journal of Microbiology Research 6, 6262–6269.
Liu K, Ding X, Deng B, Chen W. 2009 – Isolation and characterization of endophytic taxol–producing fungi from *Taxus chinensis*. Journal of Industrial Microbiology Biotechnology 369, 1171-1177.
Liu T, Greenslade A, Yang S. 2017 – Levels of rhizome endophytic fungi fluctuate in *Paris polyphylla* var *yunnanensis* as plants age. Plant Diversity 391, 60–64.
Liu X, Dong M, Chen X, Jiang M et al. 2007 – Antioxidant activity and phenolics of an endophytic *Xylaria* sp from *Ginkgo biloba*. Food Chemistry 1052, 548–554.
Lodge DJ, Fisher PJ, Sutton BC. 1996 – Endophytic fungi of *Manilkara bidentata* leaves in Puerto Rico. Mycologia 88, 733–738.
Loro M, Valero–Jiménez CA, Nozawa S, Márquez LM. 2012 – Diversity and composition of fungal endophytes in semiarid. Northwest Venezuela Journal of Arid Environments 85, 46–55.

Lu Y, Chen C, Chen H, Zhang J et al. 2012 – Isolation and identification of endophytic fungi from *Actinidia macrosperma* and investigation of their bioactivities. Evidence–Based Complementary and Alternative Medicine 2012.

Lu Y, Chen S, Wang B. 2009 – Cytotoxic activities of endophytic fungi isolated from the endangered, Chinese endemic species. Dysosma pleiantha Zeitschrift für Naturforschung C 647–8, 518–520.

Lukešová T, Kohout P, Větrovský T, Vohník M. 2015 – The potential of dark septate endophytes to form root symbioses with ectomycorrhizal and ericoid mycorrhizal middle European forest plants. PLoS One 104, e0124752.

Lv YL, Zhang FS, Chen J, Cui JL et al. 2010 – Diversity and antimicrobial activity of endophytic fungi associated with the alpine plant *Saussurea involucrate*. Biological and Pharmaceutical Bulletin 338, 1300–1306.

Lyons PC, Evans JJ, Bacon CW. 1990 – Effects of the fungal endophyte *Acremonium coenophialum* on nitrogen accumulation and metabolism in tall fescue. Plant Physiology 923, 726–732.

Ma X, Kang J, Nontachaiyapoom S, Wen T et al. 2015 – Non–mycorrhizal endophytic fungi from orchids. Current Science 1091, 72–87.

Ma X, Nontachaiyapoom S, Jayawardena RS. 2018 – Endophytic *Colletotrichum* species from *Dendrobium* spp in China and Northern Thailand. MycoKeys 43, 23–57.

Maadon SN, Wakid SA, Zainudin II, Rusli LS et al. 2018 – Isolation and Identification of Endophytic Fungi from UiTM Reserve Forest, Negeri Sembilan. Sains Malaysiana, 47, 3025-3030.

MacArthur DJ, McGee PA. 2000 – A comparison of the endophytic fungi from leaves of *Banksia integrifolia* at three sites on the east coast of Australia. Australasian Mycologist 193, 80–83.

Macías–Rubalcava ML, Hernández–Bautista BE, Oropeza F, Duarte G et al. 2010 – Allelochemical effects of volatile compounds and organic extracts from *Muscodor yucatanensis*, a tropical endophytic fungus from *Bursera simaruba*. Journal of Chemical Ecology 3610, 1122–1131.

Maciá–Vicente JG, Jansson HB, Abdullah SK, Descals E et al. 2008a – Fungal root endophytes from natural vegetation in Mediterranean environments with special reference to *Fusarium* spp. FEMS Microbiology Ecology 641, 90–105.

Maciá–Vicente JG, Jansson HB, Mendgen K, Lopez–Llorca LV 2008b – Colonization of barley roots by endophytic fungi and their reduction of take–all caused by *Gaeumannomyces graminis* var *tritici*. Canadian Journal of Microbiology 548, 600–609.

Maciá-Vicente JG, Jansson HB, Talbot NJ, Lopez-Llorca LV. 2009 – Real-time PCR quantification and live-cell imaging of endophytic colonization of barley *Hordeum vulgare* roots by *Fusarium equiseti* and *Pochonia chlamydosporia*. New Phytologist 1821, 213–228.

Mafezoli J, Xu YM, Hilário F, Freidhof B et al. 2018 – Modulation of polyketide biosynthetic pathway of the endophytic fungus, *Anteaglonium* sp. FL0768, by copper (II) and anacardic acid. Phytochemistry Letters 28, 157-63.

Magyar D, Shoemaker RA, Bobvos J, Crous PW et al. 2011 – *Pyrigemmula*, a novel hyphomycete genus on grapevine and tree bark. Mycological Progress 103, 307–314.

Maharachikumbura SS, Guo LD, Liu ZY, Hyde KD et al. 2016 – *Pseudopestalotiopsis ignota* and *Ps. camelliae* spp. nov. associated with grey blight disease of tea in China. Mycological Progress 15, 22. DOI 10.1007/s11557-016-1162-3.

Maheswari S, Rajagopal K. 2013 – Biodiversity of endophytic fungi in *Kigelia pinnata* during two different seasons. Current Science 515–518.

Mahfooz M, Dwedi S, Bhatt A, Raghuvanshi S et al. 2017 – Evaluation of Antifungal and Enzymatic Potential of Endophytic Fungi Isolated from *Cupressus torulosa* D Don. Int J Curr Microbiol App Sci, 67, 4084–4100.

Mahmoud FM, Krimi Z, Maciá–Vicente JG, Errahmani MB et al. 2017 – Endophytic fungi associated with roots of date palm *Phoenix dactylifera* in coastal dunes. Revista iberoamericana de Micologia 342, 116–120.

Mahmoud RS, Narisawa K. 2013 – A new fungal endophyte, *Scolecobasidium humicola*, promotes tomato growth under organic nitrogen conditions. PLoS One 811, e78746.
Maiquez JA, Pineda FG, Valentino MJG. 2016 – Auxin like activity of endophytic fungi associated with bamboo in rice (*Oriza staiva*). Internaional Journal of Biology, Pharmacy and Allied Sciences 5, 1707–1716.
Malinowski DP, Belesky DP. 2000 – Adaptations of endophyte–infected cool–season grasses to environmental stresses, mechanisms of drought and mineral stress tolerance. Crop Science 40 923–940.
Manamgoda DS, Udayanga D, Cai L, Chukeatirote E et al. 2013 – Endophytic *Colletotrichum* from tropical grasses with a new species *C. endophytica*. Fungal Diversity 611, 107–115.
Manasa C, Nalini MS. 2014 – L–Asparaginase activity of fungal endophytes from *Tabernaemontana heyneana* Wall (apocynaceae), endemic to the Western Ghats India. International scholarly research notices, 925131. Doi: https://doi.org/10.1155/2014/925131.
Mangunwardoyo W, Suciatmih S, Gandjar I. 2012 – Frequency of endophytic fungi isolated from *Dendrobium crumenatum* (Pigeon orchid) and antimicrobial activity. Biodiversitas, Journal of Biological Diversity 131, 34–39.
Marcellano JP, Collanto AS, Fuentes RG. 2017 – Antibacterial activity of endophytic fungi isolated from the Bark of *Cinnamomum mercadoi*. Pharmacognosy Journal 93, 405–409.
Márquez SS, Bills GF, Acuña LD, Zabalgogeazcoa I. 2010 – Endophytic mycobiota of leaves and roots of the grass *Holcus lanatus*. Fungal Diversity 411, 115–123.
Márquez SS, Bills GF, Herrero N, Zabalgogeazcoa I. 2012 – Non–systemic fungal endophytes of grasses. Fungal Ecology 53, 289–297.
Marsberg A, Slippers B, Wingfield MJ, Gryzenhout M. 2014 – Endophyte isolations from *Syzygium cordatum* and a Eucalyptus clone Myrtaceae reveal new host and geographical reports for the Mycosphaerellaceae and Teratosphaeriaceae. Australasian Plant Pathology 435, 503–512.
Martin RC, Dombrowski JE. 2015 – Isolation and identification of fungal endophytes from grasses along the Oregon Coast. American Journal of Plant Sciences 619, 3216–3230.
Martínez–Luis S, Della–Togna G, Coley PD, Kursar TA et al. 2008 – Antileishmanial constituents of the Panamanian endophytic fungus *Edenia* sp. Journal of Natural Products 7112, 2011–2014.
Materatski P, Varanda C, Carvalho T, Dias AB et al. 2019 – Spatial and temporal variation of fungal endophytic richness and diversity associated to the phyllosphere of olive cultivars. Fungal Biology 123, 66–76.
Matsushima T. 1971 – Microfungi of the Solomon Islands and Papua–New Guinea the author, Kobe, Japan.
Mazaris AD, Tzanopoulos J, Kallimanis AS, Matsinos YG et al. 2008 – The contribution of common and rare species to plant species richness patterns: the effect of habitat type and size of sampling unit. Biodiversity and Conservation 17, 3567–3577.
McCutcheon TL, Carroll GC, Schwab S. 1993 – Genotypic diversity in populations of a fungal endophyte from *Douglas fir*. Mycologia 852, 180–186.
Mefteh FB, Daoud A, Chenari Bouket A, Alenezi FN et al. 2017 – Fungal root microbiome from healthy and brittle leaf diseased date palm trees *Phoenix dactylifera* L reveals a hidden untapped arsenal of antibacterial and broad spectrum antifungal secondary metabolites. Frontiers in Microbiology 8, 307.
Mejía LC, Rojas EI, Maynard Z, Van Bael S et al. 2008 – Endophytic fungi as biocontrol agents of *Theobroma cacao* pathogens. Biological Control 461, 4–14.
Melin E. 1922 – On the mycorrhizas of *Pinus silvestris* L. and *Picea abies* Karst, a preliminary note. Journal of Ecology 9, 254–257.
Meshram V, Kapoor N, Chopra G, Saxena S. 2017 – *Muscodor camphora*, a new endophytic species from Cinnamomum camphora. Mycosphere 84, 568–582.

Meshram V, Kapoor N, Saxena S. 2013 – *Muscodor kashayum* sp nov. a new volatile anti–microbial producing endophytic fungus. Mycology 44, 196–204.
Min C, Wang X. 2009 – Isolation and identification of the 10–hydroxycamptothecin–producing endophytic fungi from *Camptotheca acuminate*. Decne Acta Botanica Boreali–Occidentalia Sinica 293, 614–617.
Min YJ, Park MS, Fong JJ, Quan Y et al. 2014 – Diversity and saline resistance of endophytic fungi associated with *Pinus thunbergii* in coastal shelterbelts of Korea. Journal of Microbiology and Biotechnology 243, 324–333.
Mirjalili MH, Farzaneh M, Bonfill M, Rezadoost H et al. 2012 – Isolation and characterization of *Stemphylium sedicola* SBU–16 as a new endophytic taxol–producing fungus from *Taxus baccata* grown in Iran. FEMS Microbiology Letters 3282, 122–129.
Mishra VK, Singh G, Passari AK, Yadav MK et al. 2016 – Distribution and antimicrobial potential of endophytic fungi associated with ethnomedicinal plant *Melastoma malabathricum L*. Journal of Environmental Biology 372, 229-237.
Mishra Y, Singh A, Batra A, Sharma MM. 2014 – Understanding the biodiversity and biological applications of endophytic fungi: a review. Journal of Microbial & Biochemical Technology S8, 004. doi:10.4172/1948-5948.S8-004.
Mohammad S, Mhaindarkar VP, Kumar S, Khan MI et al. 2011 – Isolation and Phylogenetic Analysis of Marine Fungus *Penicillium* sp. Sdb1 and Partial Characterization of its Cysteine Protease Inhibitor. The International Journal of Advanced Biotechnology Research 2, 135-142.
Monteiro MCP, Alves NM, De Queiroz MV, Pinho DB et al. 2017 – Antimicrobial activity of endophytic fungi from coffee plants. Bioscience Journal 33(2), 381-389.
Montemartini L. 1924 – Prime ricerche sulle micorize endotrofiche e sulla *micoflora radicicola* normale delle fanerogame.Vol. 5-6, 64–65.
Moron LS, Lim YW, dela Cruz TE. 2018 – Antimicrobial activities of crude culture extracts from mangrove fungal endophytes collected in Luzon Island, Philippines. Philippine Science Letters, 11, 28-36.
Mostert L, Crous PW, Petrini O. 2000 – Endophytic fungi associated with shoots and leaves of *Vitis vinifera*, with specific reference to the *Phomopsis viticola* complex. Sydowia 521, 46–58.
Mousa WK, Schwan A, Davidson J, Strange P et al. 2015 – An endophytic fungus isolated from finger millet *Eleusine coracana* produces anti–fungal natural products. Frontiers in microbiology 6, 1157.
Mucciarelli M, Scannerini S, Bertea CM, Maffei M. 2002 – An ascomycetous endophyte isolated from *Mentha piperita L*: biological features and molecular studies. Mycologia 941, 28–39.
Mueller GM. 2011 – Biodiversity of fungi: inventory and monitoring methods. BioScience 55, 282–283.
Murugan M, Mugesh S. 2013 – Pigment producing coelomycetes endophytic fungus *Bartalinia* sp. isolated from *Ixora coccinea L*. International Journal of Biological Research 19, 9–12.
Myrchiang P, Dkhar MS, Devi HR. 2014 – Studies on endophytic fungi associated with medicinally important aromatic plant *Artemisia nilagirica* CB Clarke Pamp and their antagonistic activity against *Phytophthora infestans*. Journal of Advanced Laboratory Research in Biology 5, 112–119.
Nagaraja TG. 2011 – Isolation and Identification of Seasonal Endomycophytes of Inner Bark of *Pachira insignis* Nature. Environment and Pollution Technology 103, 459–461.
Nair DN, Padmavathy S. 2014 – Impact of endophytic microorganisms on plants, environment and humans. The Scientific World Journal 250693, https://doi.org/10.1155/2014/250693
Naik B. 2018 – Volatile hydrocarbons from endophytic fungi and their efficacy in fuel production and disease control. Egyptian Journal of Biological Pest Control 28, 69.
Doi: https://doi.org/10.1186/s41938-018-0072-x

Nalini MS, Sunayana N, Prakash HS. 2014 – Endophytic fungal diversity in medicinal plants of Western Ghats, India. International Journal of Biodiversity 2014. ID494213. Doi: http://dx.doi.org/10.1155/2014/494213

Narisawa K, Hambleton S, Currah RS. 2007 – *Heteroconium chaetospira*, a dark septate root endophyte allied to the *Herpotrichiellaceae Chaetothyriales* obtained from some forest soil samples in Canada using bait plants. Mycoscience 485, 274–281.

Nascimento TL, Oki Y, Lima DMM, Almeida–Cortez JS et al. 2015 – Biodiversity of endophytic fungi in different leaf ages of *Calotropis procera* and their antimicrobial activity. Fungal Ecology 14, 79–86.

Nassar AH, El–Tarabily KA, Sivasithamparam K. 2005 – Promotion of plant growth by an auxin–producing isolate of the yeast *Williopsis saturnus* endophytic in maize *Zea mays* L roots. Biology and Fertility of Soils 422, 97–108.

Nath A, Joshi SR. 2013 – Bioactivity assessment of endophytic fungi associated with the ethnomedicinal plant *Potentilla fulgens*. World Journal of Pharmaceutical Research 26, 2596–2607.

Nayak BK 2015 – Biodiversity of phylloplane and endophytic fungi studied on the medicinal plant; *Tinospora cordifolia*. International Journal of Chemical Concepts 13, 109–113.

Nayak BK, Anandhu R 2017 – Biodiversity of Phylloplane and Endophytic Fungi from Different Aged Leaves of Medicinal Mangrove Plant Species, *Avicennia marina*. Journal of Pharmaceutical Sciences and Research 91, 6.

Neubert K, Mendgen K, Brinkmann H, Wirsel SG. 2006 – Only a few fungal species dominate highly diverse mycofloras associated with the common reed. Applied and Environmental Microbiology 722, 1118–1128.

Nicoletti R, Fiorentino A. 2015 – Plant bioactive metabolites and drugs produced by endophytic fungi of *Spermatophyta*. Agriculture 54, 918–970.

Nisa H, Kamili AN, Nawchoo IA, Bhat MS et al. 2018 – Isolation and Identification of Endophytic Fungi from *Artemisia scoparia Asteraceae*. International Journal of Theoretical & Applied Sciences 10, 83–88.

Nisa H, Kamili AN, Nawchoo IA, Shafi S et al. 2015 – Fungal endophytes as prolific source of phytochemicals and other bioactive natural products: a review. Microbial Pathogenesis 82, 50–59.

Novas MV, Carmarán CC. 2008 – Studies on diversity of foliar fungal endophytes of naturalised trees from Argentina, with a description of *Haplotrichum minutissimum* sp. nov. Flora–Morphology, Distribution, Functional Ecology of Plants 2037, 610–616.

Ntuba–Jua GM, Mih AM, Bechem EE. 2017 – Diversity and Distribution of Endophytic Fungi in Different *Prunus africana* (Hook. F.) Kalkman Provenances in Cameroon. Biosciences and Plant Biology. International Journal of Current Research in Biosciences and Plant Biology 4, 7–23.

Nulit ENAR, Idris AS. 2015 – Growth promoting effects of endophytic fungus *Phlebia* GanoEF3 on oil palm *Elaeis guineensis* seedlings. International Journal of Agriculture and Biology 171, 135-141.

Okane I, Nakagiri A. 2015 – Assemblages of endophytic fungi on *Salicornia europaea* disjunctively distributed in Japan: towards clarification of the ubiquity of fungal endophytes on halophytes and their ecological roles. Current Science 109, 62–71.

Okane I, Nakagiri A, Ito T. 2001 – *Surculiseries rugispora* gen et sp nov, a new endophytic mitosporic fungus from leaves of *Bruguiera gymnorrhiza*. Mycoscience 421, 115–122.

Oliveira ALLD, Felício RD, Debonsi HM. 2012 – Marine natural products: chemical and biological potential of seaweeds and their endophytic fungi. Revista Brasileira de Farmacognosia 224, 906–920.

Oliveira RJV, Souza RG, Lima TEF, Cavalcanti MAQ. 2014 – Endophytic fungal diversity in coffee leaves *Coffea arabica* cultivated using organic and conventional crop management systems. Mycosphere 5, 523–530.

Oses R, Valenzuela S, Freer J, Sanfuentes E et al. 2008 – Fungal endophytes in xylem of healthy Chilean trees and their possible role in early wood decay. Fungal Diversity 33, 77–86.
Osono T, Masuya H. 2012 – Endophytic fungi associated with leaves of Betulaceae in Japan. Canadian Journal of Microbiology 584, 507–515.
Osorio JA, Crous CJ, De Beer ZW, Wingfield MJ et al. 2017 – Endophytic *Botryosphaeriaceae*, including five new species, associated with mangrove trees in South Africa. Fungal Biology 1214, 361–393.
Osterhage C, Kaminsky R, König GM, Wright AD. 2000 – Ascosalipyrrolidinone a, an antimicrobial alkaloid, from the obligate marine fungus *Ascochyta salicorniae*. The Journal of Organic Chemistry 6520, 6412–6417.
Otero JT, Ackerman JD, Bayman P. 2002 – Diversity and host specificity of endophytic *Rhizoctonia*-like fungi from tropical orchids. American Journal of Botany 8911, 1852–1858.
Otero JT, Flanagan NS. 2006 – Orchid diversity–beyond deception. Trends in Ecology & Evolution 21, 64–65.
Pai G, Chandra M. 2018 – Antimicrobial Activity of Endophytic Fungi Isolated from Ethnomedicinal Plant *Phyllanthus reticulatus* Poir. International Journal of Engineering Science Invention 7, 40-46.
Palem PP, Kuriakose GC, Jayabaskaran C. 2015 – An endophytic fungus, *Talaromyces radicus*, isolated from Catharanthus roseus, produces vincristine and vinblastine, which induce apoptotic cell death. PLoS One 1012, e0144476.
Panaccione DG, Johnson RD, Wang J, Young CA et al. 2001 – Elimination of ergovaline from a grass–*Neotyphodium* endophyte symbiosis by genetic modification of the endophyte. Proceedings of the National Academy of Sciences 9822, 12820–12825.
Pancher M, Ceol M, Corneo PE, Longa CMO et al. 2012 – Fungal endophytic communities in grapevines *Vitis vinifera L* respond to crop management. Applied and Environmental Microbiology 78, 4308-4317.
Pandey PK, Singh S, Yadav RNS, Singh AK et al. 2014 – Fungal endophytes: promising tools for pharmaceutical science. International Journal of Pharmaceutical Sciences Review and Research 252, 128–138.
Park SU, Lim HS, Park KC, Park YH et al. 2012a – Fungal endophytes from three cultivars of *Panax ginseng* Meyer cultivated in Korea. Journal of ginseng research 361, 107.
Park YH, Kim Y, Mishra RC, Bae H. 2017 – Fungal endophytes inhabiting mountain–cultivated ginseng *Panax ginseng* Meyer: Diversity and biocontrol activity against ginseng pathogens. Scientific Reports 71, 16221.
Park YH, Kim YC, Park SU, Lim HS et al. 2012b – Age–dependent distribution of fungal endophytes in *Panax ginseng* roots cultivated in Korea. Journal of Ginseng Research 363, 327-333.
Patterson CG, Potter DA, Fannin FF. 1991 – Feeding deterrency of alkaloids from endophyte-infected grasses to Japanese beetle grubs. Entomologia Experimentalis et Applicata 61, 285–289.
Paul NC, Deng JX, Sang H K, Choi YP et al. 2012 – Distribution and antifungal activity of endophytic fungi in different growth stages of chili pepper *Capsicum annuum L* in Korea. The Plant Pathology Journal 281, 10–19.
Paul NC, Kim WK, Woo SK, Park MS et al. 2006 – Diversity of endophytic fungi associated with *Taraxacum coreanum* and their antifungal activity. Mycobiology 344, 185–190.
Paulus BC, Kanowski J, Gadek PA, Hyde KD. 2006 – Diversity and distribution of saprobic microfungi in leaf litter of an Australian tropical rainforest. Mycological Research 110, 1441–1454
Pérez CA, Wingfield MJ, Slippers B, Altier NA et al. 2010 – Endophytic and canker–associated *Botryosphaeriaceae* occurring on non–native Eucalyptus and native *Myrtaceae* trees in Uruguay. Fungal Diversity 411, 53–69.

Pérez LI, Gundel PE, Ghersa CM, Omacini M. 2013 – Family issues: fungal endophyte protects host grass from the closely related pathogen *Claviceps purpurea*. Fungal Ecology 65, 379–386.

Perrone G, Varga J, Susca A, Frisvad JC et al. 2008 – *Aspergillus uvarum* sp nov, an uniseriate black Aspergillus species isolated from grapes in Europe. International Journal of Systematic and Evolutionary Microbiology 584, 1032–1039.

Petrini O. 1991 – Fungal endophytes of tree leaves. In, Microbial ecology of leaves. Springer, 179–197.

Petrini O, Fisher PJ. 1986 – Fungal endophytes in *Salicornia perennis*. Transactions of the British Mycological Society 87, 647–651.

Petrini O, Stone J, Carroll FE. 1982 – Endophytic fungi in evergreen shrubs in western Oregon, a preliminary study. Canadian Journal of Botany 60, 789–796

Phongpaichit S, Nikom J, Rungjindamai N, Sakayaroj J et al. 2007 – Biological activities of extracts from endophytic fungi isolated from *Garcinia* plants. FEMS Immunology Medical Microbiology 513, 517–525.

Phongpaichit S, Rungjindamai N, Rukachaisirikul V, Sakayaroj J. 2006 – Antimicrobial activity in cultures of endophytic fungi isolated from *Garcinia* species. FEMS Immunology Medical Microbiology 483, 367–372.

Photita W, Lumyong S, Lumyong P, Hyde KD. 2001 – Endophytic fungi of wild banana *Musa acuminata* at doi Suthep Pui National Park. Thailand Mycological Research 10512, 1508–1513.

Photita W, Lumyong S, Lumyong P, McKenzie EHC et al. 2004 – Are some endophytes of *Musa acuminata* latent pathogens? Fungal Diversity 16, 131–140.

Polishook JD, Bills GF, Lodge DJ. 1996 – Microfungi from decaying leaves of two rain forest trees in Puerto Rico. Journal of Industrial Microbiology & Biotechnology 17, 284–294.

Porras–Alfaro A, Bayman P. 2011 – Hidden fungi, emergent properties: endophytes and microbiomes. Annual review of phytopathology 49, 291–315.

Porras–Alfaro A, Herrera J, Sinsabaugh RL, Odenbach KJ et al. 2008 – Novel root fungal consortium associated with a dominant desert grass. Applied and Environmental Microbiology 74, 2805–2813.

Porras–Alfaro A, Raghavan S, Garcia M, Sinsabaugh RL et al. 2014 – Endophytic fungal symbionts associated with *gypsophilous*. Plants Botany 924, 295–301.

Potshangbam M, Devi SI, Sahoo D, Strobel GA. 2017 – Functional characterization of endophytic fungal community associated with *Oryza sativa* L and *Zea mays* L. Frontiers in microbiology 8, 325.

Powthong P, Jantrapanukorn B, Thongmee A, Suntornthiticharoen P. 2012 – Evaluation of endophytic fungi extract for their antimicrobial activity from *Sesbania grandiflora L* Pers. International Journal of Medicine and Biomedical Research 32, 132–136.

Prabavathy D, Nachiyar CV. 2014 – Cytotoxicity of Ethyl Acetate Extract of Endophytic *Aspergillus fumigatus* on A549 Cell Lines. Biosciences Biotechnology Research Asia 112, 797–802.

Pragathi D, Vijaya T, Mouli KC, Anitha D. 2013 – Diversity of fungal endophytes and their bioactive metabolites from endemic plants of Tirumala hills–Seshachalam biosphere reserve. African Journal of Biotechnology 12(27), 4317-4323.

Prathyusha P, Rajitha Sri AB, Satya Prasad K. 2015 – Diversity and enzymatic activity of foliar endophytic fungi isolated from medicinal plants of Indian dry deciduous forest. Der Pharmacia Lettre 78, 244–251.

Premjanu N, Jayanthy C. 2012 – Endophytic fungi a repository of bioactive compounds–a review. International Journal of Institutional Pharmacy and Life Sciences 2, 135–162.

Priyadharshini R, Ambikapathy V, Panneerselvam A. 2016 – Diversity and antibacterial activityof endophytic fungi from *Ceriops tagal* in Muthupet mangroves. IOSR Journal of Applied Chemistry 9, 60–62.

Promputtha I, Hyde KD, McKenzie EH, Peberdy JF et al. 2010 – Can leaf degrading enzymes provide evidence that endophytic fungi becoming saprobes? Fungal Diversity 411, 89–99.
Promputtha I, Lumyong S, Vijaykrishna D, McKenzie EHC et al. 2007 – A phylogenetic evaluation of whether endophytes become saprotrophs at host senescence. Microbial Ecology 53, 579–590.
Promputtha I, Jeewon R, Lumyong S, McKenzie et al. 2005 – Ribosomal DNA fingerprinting in the identification of non–sporulating endophytes from *Magnolia liliifera* (*Magnoliaceae*) Fungal Diversity 20, 167–186.
Promputtha I, Lumyong S, Vijaykrishna D, McKenzie EHC et al. 2007 – A phylogenetic evaluation of whether endophytes become saprotrophs at host senescence. Microbial Ecology 53, 579–590.
Pryor BM, Creamer R, Shoemaker RA, McLain–Romero J et al. 2009 – Undifilum, a new genus for endophytic *Embellisia oxytropis* and parasitic *Helminthosporium bornmuelleri* on legumes. Botany 872, 178–194.
Pu X, Qu X, Chen F, Bao J et al. 2013 – Camptothecin–producing endophytic fungus *Trichoderma atroviride* LY357: isolation, identification, and fermentation conditions optimization for camptothecin production. Applied microbiology and biotechnology 9721, 9365–9375.
Purahong W, Hyde KD. 2011 – Effects of fungal endophytes on grass and non–grass litter decomposition rates. Fungal Diversity 471, 1–7.
Puri SC, Verma V, Amna T, Qazi GN et al. 2005 – An endophytic fungus from *Nothapodytes foetida* that produces. Camptothecin Journal of natural products 6812, 1717–1719.
Purmale L, Apine I, Nikolajewa V, Grantina L et al. 2012 – Endophytic fungi in evergreen rhododendron cultivated in vitro and in vivo. Environmental and Experimental Biology 10, 1–7.
Putra IP, Rahayu G, Hidayat I. 2015 – Impact of Domestication on the Endophytic Fungal Diversity associated with wild *Zingiberaceae* at Mount Halimun Salak National Park HAYATI. Journal of Biosciences 224, 157–162.
Qadri M, Johri S, Shah BA, Khajuria A et al. 2013 – Identification and bioactive potential of endophytic fungi isolated from selected plants of the Western Himalayas. SpringerPlus, 21, 8.
Qadri M, Rajput R, Abdin MZ, Vishwakarma RA et al. 2014 – Diversity, molecular phylogeny, and bioactive potential of fungal endophytes associated with the Himalayan blue pine *Pinus wallichiana*. Microbial Ecology 674, 877–887.
Qian Y, Kang J, Geng K, Wang L et al. 2014 – Endophytic fungi from *Artemisia argyi* Levl et Vant and their bioactivity. Chiang Mai Journal of Science 414, 910–921.
Qin S, Krohn K, Flörke U, Schulz B et al. 2009 – Two New Fusidilactones from the Fungal Endophyte *Fusidium* sp. European Journal of Organic Chemistry, 200919, 3279–3284.
Qun XU, Ling-qi ZH, Juan YA, Yu-peng LI. 2011 – β–Elemene from *Curcuma zedoaria* Endophytic Fungus. Natural Product Research Development 23, 473–475.
Rachanarin C, Suwannarach N, Kumla J, Srimuang KO et al. 2018 – A new endophytic fungus, *Tulasnella phuhinrongklaensis Cantharellales*, *Basidiomycota* isolated from roots of the terrestrial orchid, *Phalaenopsis pulcherrima*. Phytotaxa, 3742, 99–109.
Radić N, Štrukelj B 2012 – Endophytic fungi-The treasure chest of antibacterial substances. Phytomedicine 1914, 1270–1284.
Ragazzi A, Moricca S, Capretti P, Dellavalle I et al. 2001 – Endophytic fungi in *Quercus cerris*: isolation frequency in relation to phenological phase, tree health and the organ affected. Phytopathologia Mediterranea 402, 165–171.
Raja HA, Kaur A, El–Elimat T, Figueroa M et al. 2015 – Phylogenetic and chemical diversity of fungal endophytes isolated from *Silybum marianum L* Gaertnmilk thistle. Mycology 61, 8–27.
Rajamanikyam M, Vadlapudi V, Upadhyayula SM. 2017 – Endophytic Fungi as Novel Resources of natural Therapeutics. Brazilian Archives of Biology and Technology, 60, e17160542.

Rajapriya P, Sureshkumar S, Mohanapriya J, Srinath P et al. 2014 – internal transcribed spacer ITS, ITS–2 based identifications of endophytic fungi from *millingtoniahortensis* and *tabebuia* sp. International Journal of Recent Scientific Research 5, 1431–1436.

Rajendran A. 2016 – Diversity of endophytic fungi from the ornamental plant–*Adenium obesum*. Studies in Fungi 1, 34–42.

Rajesh PS, Rai VR. 2013 – Hydrolytic enzymes and quorum sensing inhibitors from endophytic fungi of *Ventilago madraspatana*. Gaertn Biocatalysis and Agricultural Biotechnology 22, 120–124.

Rajulu MBG, Thirunavukkarasu N, Suryanarayanan TS, Ravishankar JP et al. 2011 – Chitinolytic enzymes from endophytic fungi. Fungal Diversity 471, 43–53.

Rakotoniriana EF, Munaut F, Decock C, Randriamampionona D et al. 2008 – Endophytic fungi from leaves of *Centella asiatica*: occurrence and potential interactions within leaves. Antonie van Leeuwenhoek 931–2, 27–36.

Refaei J, Jones EBG, Sakayaroj J, Santhanam J. 2011 – Endophytic fungi from *Rafflesia cantleyi*: species diversity and antimicrobial activity. Mycosphere 24, 429–447.

Rekha KJ, Bala M, Arya V. 2013 – Endophytic fungus: a potential source of biologically synthesized nanoparticle. Basic Research Joural of Microbiology 11, 1–7.

Richard C, Fortin JA. 1975 – Rôle protecteur du Suillus granulatus contre le Mycelium radicis atrovirens sur des semis de *Pinus resinosa*. Canadian journal of forest research 5, 452–456

Richardson SN, Walker AK, Nsiama TK, McFarlane J et al. 2014 – Griseofulvin–producing *Xylaria* endophytes of *Pinus strobus* and *Vaccinium angustifolium*: evidence for a conifer–understory species endophyte ecology. Fungal Ecology 11, 107–113.

Riedell WE, Kieckhefer RE, Petroski RJ, Powell RG. 1991 – Naturally–occurring and synthetic loline alkaloid derivatives, insect feeding behavior modification and toxicity. Journal of Entomological Science 26, 122–129.

Rivera–Orduña FN, Suarez–Sanchez RA, Flores–Bustamante ZR, Gracida–Rodriguez JN et al. 2011 – Diversity of endophytic fungi of *Taxus globosa* Mexican yew. Fungal Diversity 471, 65–74.

Rodrigues KF. 1994 – The foliar fungal endophytes of the Amazonian palm *Euterpe oleracea*. Mycologia 376–385.

Rodrigues KF. 1996 – Fungal endophytes of palms. Mycological Research 107, 1202–1212.

Rodrigues KF, Hesse M, Werner C. 2000 – Antimicrobial activities of secondary metabolites produced by endophytic fungi from *Spondias mombin*. Journal of Basic Microbiology, 404, 261–267.

Rodrigues KF, Samuels GJ. 1990 – Preliminary study of endophytic fungi in a tropical palm. Mycological Research 946, 827–830.

Rodriguez RJ, White Jr JF, Arnold AE, Redman RS. 2009 – Fungal endophytes, diversity and functional roles. New phytologist 182, 314–330.

Rojas EI, Rehner SA, Samuels GJ, Van Bael SA et al. 2010 – *Colletotrichum gloeosporioides* associated with *Theobroma cacao* and other plants in Panama: multilocus phylogenies distinguish host–associated pathogens from asymptomatic endophytes. Mycologia 1026, 1318–1338.

Roopa G, Madhusudhan MC, Sunil KCR, Lisa N et al. 2015 – Identification of Taxol–producing endophytic fungi isolated from *Salacia oblonga* through genomic mining approach. Journal of Genetic Engineering and Biotechnology 132, 119–127.

Rosa LH, Almeida Vieira MDL, Santiago IF, Rosa CA. 2010 – Endophytic fungi community associated with the dicotyledonous plant *Colobanthus quitensis* Kunth BartlCaryophyllaceae in Antarctica. FEMS Microbiology Ecology 731, 178–189.

Rosa LH, Tabanca N, Techen N, Pan Z et al. 2012 – Antifungal activity of extracts from endophytic fungi associated with *Smallanthus* maintained in vitro as autotrophic cultures and as pot plants in the greenhouse. Canadian journal of Microbiology 5810, 1202–1211.

Rosa LH, Vaz AB, Caligiorne RB, Campolina S et al. 2009 – Endophytic fungi associated with the Antarctic grass *Deschampsia antarctica DesvPoaceae*. Polar Biology 322, 161–167.

Rowan DD, Gaynor DL. 1986 – Isolation of feeding deterrents against Argentine stem weevil from ryegrass infected with the endophyte *Acremonium loliae*. Journal of chemical ecology 12, 647–658

Rubini MR, Silva–Ribeiro RT, Pomella AW, Maki CS et al. 2005 – Diversity of endophytic fungal community of *cacao Theobroma cacao L* and biological control of *Crinipellis perniciosa*, causal agent of Witches' Broom Disease. International Journal of Biological Sciences 11, 24-33.

Rungjindamai N, Pinruan U, Choeyklin R, Hattori T et al. 2008 – Molecular characterization of *basidiomycetous* endophytes isolated from leaves, rachis and petioles of the oil palm, *Elaeis guineensis* Thailand. Fungal Diversity 33, 139–161.

Russell JR, Huang J, Anand P, Kucera K et al. 2011 – Biodegradation of polyester polyurethane by endophytic fungi. Applied and environmental microbiology 77, 6076-6084.

Russo ML, Pelizza SA, Cabello MN, Stenglein SA et al. 2016 – Endophytic fungi from selected varieties of soybean *Glycine max L* Merr and corn *Zea mays* L grown in an agricultural area of Argentina. Revista Argentina de microbiología 482, 154–160.

Sabba F, Urooj NJ, Ikram U, Muhammad AJ et al. 2017 – Isolation and Biological evaluation of Endophytic Fungus from *Ziziphus nummularia*. Journal of Entomology and Zoology Studies, 53, 32–38.

Saikkonen K. 2007 – Forest structure and fungal endophytes. Fungal Biology Reviews 212–3, 67–74.

Saikkonen K, Faeth SH, Helander M, Sullivan TJ. 1998 – Fungal endophytes: a continuum of interactions with host plants. Annual review of Ecology and Systematics 29, 319–343.

Saithong P, Panthavee W, Stonsaovapak S, Li C. 2010 – Isolation and primary identification of endophytic fungi from *Cephalotaxus mannii* trees Maejo. International Journal of science and technology 43, 446–453.

Sánchez Márquez M, Bills GF, Zabalgogeazcoa I. 2008 – Diversity and structure of the fungal endophytic assemblages from two sympatric coastal grasses. Fungal Diversity 33, 87–100.

Saraswaty V, Srikandace Y, Simbiyani NA, Setiyanto H et al. 2013 – Antioxidant activity and total phenolic content of endophytic fungus *Fennellia nivea* NRRL 5504. Pakistan journal of biological sciences 1622, 1574–1578.

Sarma P. 2018 – Diversity of endophytic fungi associated with the medicinally important aromatic plant *Gaultheria fragrantissima*. Conference proceedings, DOI: 10.5943/sif/3/1/31

Sasan RK, Bidochka MJ. 2012 – The insect-pathogenic fungus *Metarhizium robertsii Clavicipitaceae* is also an endophyte that stimulates plant root development. American journal of botany 991, 101–107.

Sati SC, Pathak R. 2017 – New root endophytic water borne conidial fungi from Kumaun Himalaya. Current Botany 12–16.

Saxena S, Meshram V, Kapoor N. 2015 – *Muscodor tigerii* sp nov–Volatile antibiotic producing endophytic fungus from the Northeastern Himalayas. Annals of Microbiology 651, 47–57.

Schaible GA, Strobel GA, Mends MT, Geary B et al. 2015 – Characterization of an endophytic *Gloeosporium* sp and its novel bioactivity with “synergistans”. Microbial ecology 701, 41–50.

Schardl CL, Leuchtmann A, Spiering MJ. 2004 – Symbioses of grasses with seedborne fungal endophytes. Annual Review of Plant Biology 55, 315–340.

Schirrmann MK, Leuchtmann A. 2015 – The role of host–specificity in the reproductive isolation of Epichloë endophytes revealed by reciprocal infections. Fungal Ecology 15, 29–38.

Schlegel M, Dubach V, von Buol L, Sieber TN. 2016 – Effects of endophytic fungi on the ash dieback pathogen. FEMS Microbiology Ecology 92, fiw142.

Schulz B, Wanke U, Draeger S, Aust HJ. 1993 – Endophytes from herbaceous plants and shrubs: effectiveness of surface sterilization methods. Mycological research 9712, 1447–1450.

Schulz, B, Boyle C, Draeger S, Römmert AK et al. 2002 – Endophytic fungi: a source of novel biologically active secondary metabolites. Mycological research 1069, 996–1004.
Schulz B, Boyle C. 2005 – The endophytic continuum. Mycological research 109, 661–686.
Selim K, Elkhateeb W, Tawila A, El–Beih A et al. 2018 – Antiviral and antioxidant potential of fungal endophytes of Egyptian medicinal plants. Fermentation 43, 49. Doi: 10.3390/fermentation4030049.
Selim KA, Ahmed A, Abdel–Rahman TM, El–Diwany AI. 2014 – Biological evaluation of endophytic fungus, *Chaetomium globosum* JN711454, as potential candidate for improving drug discovery. Cell biochemistry and biophysics 681, 67–82.
Selim KA, El–Beih AA, AbdEl–Rahman TM, El–Diwany AI. 2012 – Biology of endophytic fungi. Current Research in Environmental & Applied Mycology 21, 31–82.
Selvakumar V, Panneerselvam A, Vijayakumar N, Savery MA et al. 2014 – Diversity of endophytic and rhizosphere soil fungi of *Avicennia marina* in Maravakadu Mangrove Forest IOSR Journal of Pharmacy and Biological Sciences 9, 24–28.
Septiana E, Sukarno N, Simanjuntak P. 2017 – Endophytic Fungi associated with Turmeric *Curcuma longa* L can inhibit Histamine–Forming Bacteria in Fish HAYATI. Journal of Biosciences 241, 46–52.
Sette LD, Passarini MR Z, Delarmelina C, Salati F et al. 2006 – Molecular characterization and antimicrobial activity of endophytic fungi from coffee plants. World Journal of Microbiology and Biotechnology 2211, 1185–1195.
Shan T, Sun W, Lou J, Gao S et al. 2012 – Antibacterial activity of the endophytic fungi from medicinal herb, *Macleaya cordata*. African Journal of Biotechnology 1119, 4354–4359.
Shan T, Tian J, Wang X, Mou Yet al. 2014 – Bioactive spirobisnaphthalenes from the endophytic fungus *Berkleasmium* sp. Journal of natural products 77, 2151–2160.
Sharma R, Kulkarni G, Shouche YS. 2013 – *Pseudofusicoccum adansoniae* isolated as an endophyte from *Jatropha podagrica*: new record for India. Mycotaxon 1231, 39–45.
Shaw JJ, Spakowicz DJ, Dalal RS, Davis JH et al. 2015 – Biosynthesis and genomic analysis of medium–chain hydrocarbon production by the endophytic fungal isolate *Nigrograna mackinnonii* E5202H. Applied Microbiology and Biotechnology 998, 3715–3728.
Shearer JF. 2001 – Recovery of endophytic fungi from *Myriophyllum spicatum* No ERDC–TN–APCRP–BC–03 – Army engineer waterways experiment station Vicksburg ms engineer research and development center.
Shearer JF 2009 – *Mycoleptodiscus terrestris*: An Endophyte Turned Latent Pathogen of Eurasian Watermilfoil. Engineer Research and Development Center Vicksburg ms; 2009 Mar.
Shebany YM, El–Magraby, OM, Abdel–Wahab, MA, Magraby TA. 2014 – Isolation and Identification of Endophytic Fungi from Leaves and Roots of *Altheae rosea*. International Journal of Life Sciences Research 2, 48–57.
Sheik S, Chandrashekar KR, Swaroop K, Somashekarappa HM. 2015 – Biodegradation of gamma irradiated low density polyethylene and polypropylene by endophytic fungi. International Biodeterioration Biodegradation 105, 21–29.
Shen M, Liu L, Li DW, Zhou WN et al. 2013 – The effect of endophytic *Peyronellaea* from heavy metal–contaminated and uncontaminated sites on maize growth, heavy metal absorption and accumulation Fungal Ecology 66, 539–545.
Shetty KG, Rivadeneira DV, Jayachandran K, Walker DM. 2016 – Isolation and molecular characterization of the fungal endophytic microbiome from conventionally and organically grown avocado trees in South Florida. Mycological Progress 159, 977–986.
Shi Y, Zhang X, Lou K. 2013 – Isolation, characterization, and insecticidal activity of an endophyte of drunken horse grass, *Achnatherum inebrians*. Journal of Insect Science 131, 151.
Shipunov A, Newcombe G, Raghavendra AK, Anderson CL. 2008 – Hidden diversity of endophytic fungi in an invasive plant. American Journal of Botany 959, 1096–1108.

Shirdam R, Zand AD, Nabibidhendi G, Mehrdadi N. 2009 – Enhanced biodegradation of hydrocarbons in the rhizosphere of plant species in semi–arid regions. Asian Journal of Chemistry 21, 2357–2368.
Shrestha K, Strobel GA, Shrivastava SP, Gewali MB. 2001 – Evidence for paclitaxel from three new endophytic fungi of Himalayan yew of Nepal. Planta Medica 6704, 374–376.
Shubha J, Srinivas C. 2017 – Diversity and extracellular enzymes of endophytic fungi associated with *Cymbidium aloifolium L*. African Journal of Biotechnology 1648, 2248–2258.
Shubin L, Juan H, RenChao Z, ShiRu X et al. 2014 – Fungal endophytes of *Alpinia officinarum* rhizomes: insights on diversity and variation across growth years, growth sites, and the inner active chemical concentration. PLoS One 912, e115289.
Shukla ST, Habbu PV, Kulkarni VH, Jagadish KS et al. 2014 – Endophytic microbes: a novel source for biologically/pharmacologically active secondary metabolites. Asian Journal of Pharmacology and Toxicology 23, 1–6.
Shukla, Manisha, Mishra MK. 2012 – Mycoflora associated with five commonly used medicinal plants of Karaikal UT of Puducherry. International Journal of Scientific and Research Publications 21, 1–4.
Shweta S, Gurumurthy BR, Ravikanth G, Ramanan US et al. 2013 – Endophytic fungi from *Miquelia dentata* Bedd, produce the anti–cancer alkaloid, camptothecine. Phytomedicine 203–4, 337–342.
Sieber TN. 2007 – Endophytic fungi in forest trees: are they mutualists? Fungal Biology Reviews 212–3, 75–89.
Sieber TN, Sieber–Canavesi F, Dorworth CE. 1991 – Endophytic fungi of red alder *Alnus rubra* leaves and twigs in British Columbia. Canadian Journal of Botany 692, 407–411.
Siegel MR, Latch GCM, Bush LP, Fannin FF et al. 1990 – Fungal endophyte–infected grasses, alkaloid accumulation and aphid response. Journal of chemical ecology 16, 3301–3315.
Silva GH, Teles HL, Zanardi LM, Young et al. 2006 – Cadinane sesquiterpenoids of *Phomopsis cassiae*, an endophytic fungus associated with *Cassia spectabilis Leguminosae*. Phytochemistry 6717, 1964–1969.
Silva–Hughes AF, Wedge DE, Cantrell CL, Carvalho CR et al. 2015 – Diversity and antifungal activity of the endophytic fungi associated with the native medicinal cactus *Opuntia humifusa Cactaceae* from the United States. Microbiological research 175, 67–77.
Slippers B, Burgess T, Pavlic D, Ahumada R et al. 2009 – A diverse assemblage of *Botryosphaeriaceae* infect Eucalyptus in native and non–native environments Southern Forests. Journal of Forest Science 712, 101–110.
Slippers B, Wingfield MJ. 2007 – *Botryosphaeriaceae* as endophytes and latent pathogens of woody plants: diversity, ecology and impact. Fungal biology reviews 212–3, 90–106.
Smith H, Wingfield MJ, Petrini O. 1996 – *Botryosphaeria dothidea* endophytic in *Eucalyptus grandis* and *Eucalyptus nitens* in South Africa. Forest Ecology and Management 891(3), 189–195.
Soca–Chafre G, Rivera–Orduña FN, Hidalgo–Lara ME, Hernandez–Rodriguez C et al. 2011 – Molecular phylogeny and paclitaxel screening of fungal endophytes from *Taxus globosa*. Fungal biology 1152, 143–156.
Specian V, Sarragiotto MH, Pamphile JA, Clemente E. 2012 – Chemical characterization of bioactive compounds from the endophytic fungus *Diaporthe helianthi* isolated from *Luehea divaricate*. Brazilian Journal of Microbiology 433, 1174–1182.
Sreekanth D, Kristin IM, Brett AN. 2017 – Endophytic Fungi from *Cathranthus roseus*: A Potential Resource for the Discovery of Antimicrobial Polyketides. Natural Products Chemistry Research 5, 256.
Srinivas RP, Nigam A, De Silva WC, Chikkaswamy BK. 2015 – An investigation of biodiversity of endophytic fungi associated with some medicinal plants. International Journal of Advanced Research in Engineering and Applied Sciences 42, 27–44.

Staniek A, Woerdenbag HJ, Kayser O. 2010 – Screening the endophytic flora of Wollemia nobilis for alternative paclitaxel sources. Journal of Plant Interactions 53, 189–195.
Stephen B, Pelling AL, Smith GJD, Reddy CA. 2005 – Screening of basidiomycetes and *xylariaceous* fungi for lignin peroxidase and laccase gene–specific sequences. Mycological Research 109, 115–124.
Strobel G. 2001 – *Stegolerium kukenani* gen, et sp nov, an endophytic taxol producing fungus from the Roraima and Kukenan tepuis of Venezuela. Mycotaxon 78, 353–361.
Strobel G. 2006 – Harnessing endophytes for industrial microbiology. Current Opinion in Microbiology 93, 240–244.
Strobel G, Daisy B. – 2003 Bioprospecting for microbial endophytes and their natural products. Microbiology and Molecular Biology Reviews 67, 491–502
Strobel GA. 2002 – Rainforest endophytes and bioactive products. Critical Reviews in Biotechnology 22, 315–333
Strobel GA. 2003 – Endophytes as sources of bioactive products. Microbes and Infection 56, 535–544.
Strobel GA, Dirkse E, Sears J, Markworth C. 2001 – Volatile antimicrobials from *Muscodor albus*, a novel endophytic fungus. Microbiology 14711, 2943–2950.
Strobel GA, Hess WM, Ford E, Sidhu RS et al. 1996 – Taxol from fungal endophytes and the issue of biodiversity. Journal of Industrial Microbiology, 175–6, 417–423.
Su YY, Guo LD, Hyde KD. 2010 – Response of endophytic fungi of *Stipa grandis* to experimental plant function group removal in Inner Mongolia steppe, China. Fungal Diversity 431, 93–101.
Subban K, Subramani R, Johnpaul M. 2013 – A novel antibacterial and antifungal phenolic compound from the endophytic fungus *Pestalotiopsis mangiferae*. Natural Product Research 2716, 1445–1449.
Sugijanto NE, Diesel A, Ebel R, Indrayanto G et al. 2009 – Chemical constituents of the endophytic fungus *Lecythophora* sp isolated from *Alyxia reinwardtii*. Natural Product Communications, 411, 1485–1488.
Sun X, Ding Q, Hyde K D, Guo LD. 2012 – Community structure and preference of endophytic fungi of three woody plants in a mixed forest. Fungal Ecology 55, 624–632.
Sun X, Guo LD. 2012 – Endophytic fungal diversity, review of traditional and molecular techniques. Mycology 3, 65–76.
Sun X, Guo LD, Hyde KD. 2011a – Community composition of endophytic fungi in Acer truncatum and their role in decomposition. Fungal Diversity 471, 85–95.
Sun Y, Wang Q, Lu XD, Okane I et al. 2011b – Endophytic fungi associated with two *Suaeda* species growing in alkaline soil in China. Mycosphere 23, 239–248.
Sunayana N, Nalini MS, Sampath Kumara KK, Prakash HS. 2014 – Diversity studies on the endophytic fungi of *Vitex negundo L*. Mycosphere 54, 578–590
Sunitha VH, Nirmala Devi D, Srinivas C. 2013 – Extracellular enzymatic activity of endophytic fungal strains isolated from medicinal plants. World Journal of Agricultural Sciences 91, 1–9.
Suradkar KP, Handev DV. 2017 – Morphotaxonomy of Endophytic Fungi on *Cissus Quadrangularis* from Amravati MS India. Journal of Bacteriology and Mycology 5(2), 253–258.
Suryanarayanan TS. 2013 – Endophyte research: going beyond isolation and metabolite documentation. Fungal Ecology 66, 561–568.
Suryanarayanan TS, Hawksworth DL. 2005 – Fungi from littleexplored and extreme habitats. Biodiversity of Fungi; Their Role in Human Life Oxford & IBH Publishing Co Pvt Ltd, New Delhi, India 33–48
Suryanarayanan TS, Murali TS, Thirunavukkarasu N, Rajulu MG et al. 2010 – Endophytic fungal communities in woody perennials of three tropical forest types of the Western Ghats, southern India. Biodiversity and Conservation 20, 913–928.

Suryanarayanan TS, Senthilarasu G, Muruganandam V. 2000 – Endophytic fungi from *Cuscuta reflexa* and its host plants. Fungal Diversity 4, 117–123.
Suryanarayanan TS, Thennarasan S. 2004 – Temporal variation in endophyte assemblages of *Plumeria rubra* leaves. Fungal Diversity 15, 197–204.
Suryanarayanan TS, Thirunavukkarasu N, Govindarajulu MB, Gopalan V. 2012 – Fungal endophytes: an untapped source of biocatalysts. Fungal Diversity 54, 19–30.
Suryanarayanan TS, Thirunavukkarasu N, Govindarajulu MB, Sasse F et al. 2009 – Fungal endophytes and bioprospecting. Fungal Biology Reviews 23, 9–19.
Sutjaritvorakul T, Whalley AJS, Sihanonth P, Roengsumran S. 2011 – Antimicrobial activity from endophytic fungi isolated from plant leaves in *Dipterocarpous* forest at Viengsa district Nan province. Thailand Journal of Agricultural Technology 71, 115–121
Suwannarach N, Bussaban B, Hyde KD, Lumyong S. 2010 – *Muscodor cinnamomi*, a new endophytic species from *Cinnamomum bejolghota*. Mycotaxon 114, 15-23.
Szűcs Z, Plaszkó T, Cziáky Z, Kiss-Szikszai A et al. 2018 – Endophytic fungi from the roots of horseradish (*Armoracia rusticana*) and their interactions with the defensive metabolites of the glucosinolate-myrosinase-isothiocyanate system. BMC Plant Biology, 18, 85.
Takashima M, Nakase T. 2001 – *Tilletiopsis derxii*, *Tilletiopsis oryzicola* and *Tilletiopsis penniseti*, three new species of the ustilagionomycetous anamorphic genus *Tilletiopsis* isolated from leaves in Thailand. Antonie van Leeuwenhoek 801, 43–56.
Takemoto S, Masuya H, Tabata M. 2014 – Endophytic fungal communities in the bark of canker–diseased *Toxicodendron vernicifluum*. Fungal Ecology 7, 1–8.
Tan AF, Long LY, Nagahawatte K, Mueller M. 2018a – Shades of fungi–A review of pigments from endophytic fungi. Malaysian Journal of Microbiology 14, 70–79.
Tan XM, Zhou YQ, Zhou XL, Xia XH et al. 2018b – Diversity and bioactive potential of culturable fungal endophytes of *Dysosma versipelli*s; a rare medicinal plant endemic to China. Scientific Reports, 12, 5929.
Tanaka A, Tapper BA, Popay A, Parker EJ, Scott B. 2005 – A symbiosis expressed non-ribosomal peptide synthetase from a mutualistic fungal endophyte of perennial ryegrass confers protection to the symbiotum from insect herbivory. Molecular microbiology 57, 1036–1050.
Tao G, Liu ZY, Hyde KD, Lui XZ et al. 2008 – Whole rDNA analysis reveals novel and endophytic fungi in *Bletilla ochracea Orchidaceae*. Fungal Diversity 331, 101–112.
Tao G, Liu ZY, Liu F, Gao YH et al. 2013 – Endophytic *Colletotrichum* species from *Bletilla ochracea Orchidaceae*, with descriptions of seven new speices. Fungal Diversity 611, 139–164.
Taylor JE, Hyde KD, Jones EB. 1999 – Endophytic fungi associated with the temperate palm, *Trachycarpus fortunei*, within and outside its natural geographic range. The New Phytologist 142, 335-346.
Taylor JE, Hyde KD. 2003 – Microfungi of tropical and temperate palms. Fungal Diversity Press, Mycological Research, 108, 223-223.
Tennakoon DS, Phookamsak R, Kuo CH, Goh TK et al. 2018 – Morphological and phylogenetic evidence reveal *Fissuroma taiwanense* sp. nov. (Aigialaceae, Pleosporales) from *Hedychium coronarium*. Phytotaxa, 338, 265–275.
Tejesvi MV, Kajula M, Mattila S, Pirttilä AM. 2011 – Bioactivity and genetic diversity of endophytic fungi in *Rhododendron tomentosum Harmaja*. Fungal Diversity 471, 97–107.
Tejesvi MV, Kini KR, Prakash HS, Subbiah V et al. – Genetic diversity and antifungal activity of species of *Pestalotiopsis* isolated as endophytes from medicinal plants. Fungal Diversity 24, 37–54.
Tejesvi MV, Mahesh B, Nalini MS, Prakash HS et al. 2005 – Endophytic fungal assemblages from inner bark and twig of *Terminalia arjuna* W. & A. (Combretaceae). World Journal of Microbiology and Biotechnology 218–9, 1535–1540.

Tejesvi MV, Mahesh B, Nalini MS, Prakash HS et al. 2006 – Fungal endophyte assemblages from ethnopharmaceutically important medicinal trees. Canadian journal of Microbiology 525, 427–435.

Tejesvi MV, Ruotsalainen AL, Markkola AM, Pirttilä AM. 2010 – Root endophytes along a primary succession gradient in northern Finland. Fungal Diversity 411, 125–134.

Tenguria RK, Khan FN. 2011 – Distribution of endophytic fungi in leaves of *Azadirachta indica* a JussNeem of panchmarhi biosphere reserve. Current Botany, 2, 27–29.

Terhonen E, Keriö S, Sun H, Asiegbu FO. 2014 – Endophytic fungi of Norway spruce roots in boreal pristine mire, drained peatland and mineral soil and their inhibitory effect on *Heterobasidion parviporum* in vitro. Fungal Ecology 9, 17–26.

Thirunavukkarasu N, Suryanarayanan TS, Rajamani T, Paranetharan MS. 2017 – A rapid and simple method for screening fungi for extracellular protease. Mycosphere 8, 131–136.

Thomas SE, Crozier J, Aime MC, Evans HC et al. 2008 – Molecular characterisation of fungal endophytic morphospecies associated with the indigenous forest tree, *Theobroma gileri*, in Ecuador. Mycological Research 1127, 852–860.

Thorati M, Mishra JK, Kumar S. 2016 – Isolation, identification of endophytic Fungi from mangrove roots along the coast of South Andaman Sea, Andaman and Nicobar Islands, India. Journal of Marine Biology & Oceanography 5, 2.

Lumbsch HT, Buchanan PK, May TW, Mueller GM. 2008 – Phylogeography and biogeography of fungi. Mycological Research 112, 423–424.

Tibpromma S, Hyde KD, Bhat JD, Mortimer PE et al. 2018 – Identification of endophytic fungi from leaves of Pandanaceae based on their morphotypes and DNA sequence data from southern Thailand. MycoKeys, 33 25-67.

Toghueo K, Marie R, Boyom FF. 2019 – Endophytic Fungi from *Terminalia* Species: A Comprehensive Review. Journal of Fungi, 5, 43. Doi: 10.3390/jof5020043

Toghueo RMK, Zabalgogeazcoa I, De Aldana BV, Boyom FF. 2017 – Enzymatic activity of endophytic fungi from the medicinal plants *Terminalia catappa*, *Terminalia mantaly* and *Cananga odorata*. South African Journal of Botany 109, 146–153.

Toofanee SB, Dulymamode R. 2002 – Fungal endophytes associated with *Cordemoya integrifolia*. Fungal Diversity 111, 169–175.

Torres MS, Singh AP, Vorsa N, Gianfagna T et al. 2007 – Were endophytes pre–adapted for defensive mutualism. In, 6th International Symposium on Fungal Endophytes of Grasses. Christchurch, New Zealand, New Zealand Grassland Association 63–67

Torres MS, Tadych M, White JF, Bills GF et al. 2011 – Isolation and identification of fungal endophytes. Prospects and applications for plan tassociated microbes, A laboratory manual, Part B, Fungi BioBien Innovations Paimio, Finland 153–165

Torres MS, White Jr JF, Zhang X, Hinton DM et al. 2012 – Endophyte–mediated adjustments in host morphology and physiology and effects on host fitness traits in grasses. Fungal Ecology 53, 322–330.

Tran HBQ, McRae JM, Lynch F, Palombo EA. 2010 – Identification and bioactive properties of endophytic fungi isolated from phyllodes of *Acacia* species. Current research, technology and education topics in applied microbiology and microbial biotechnology 2, 377–382.

Tuppad DS, Shishupala S. 2013 – Endophytic mycobiota of medicinal plant *Butea monosperma*. International Journal of Current Microbiology and Applie Sciences 2, 615–627.

U'ren JM, Lutzoni F, Miadlikowska J, Laetsch AD et al. 2012 – Host and geographic structure of endophytic and endolichenic fungi at a continental scale. American Journal of Botany 99, 898–914.

Usui E, Takashima Y, Narisawa K. 2016 – *Cladophialophora inabaensis* sp. nov. a new species among the dark septate endophytes from a secondary forest in Tottori, Japan. Microbes and environments 313, 357–360.

Van Bael SA, Fernández–Marín H, Valencia MC, Rojas EI et al. 2009a – Two fungal symbioses collide: endophytic fungi are not welcome in leaf–cutting ant gardens. Proceedings of the Royal Society of London B: Biological Sciences 276, 2419-2426.

Van Bael SA, Valencia MC, Rojas EI, Gómez N et al. 2009b – Effects of foliar endophytic fungi on the preference and performance of the leaf beetle *Chelymorpha alternans* in Panama. Biotropica 412, 221–225.

Van Wyk M, Al Adawi AO, Khan IA, Deadman ML et al. 2007 – *Ceratocystis manginecans* sp. nov., causal agent of a destructive mango wilt disease in Oman and Pakistan. Fungal Diversity 27, 213–230.

Varvas T, Kasekamp K, Kullman B. 2013 – Preliminary study of endophytic fungi in timothy *Phleum pratense* in Estonia. Acta. Mycologica 48, 41–49.

Vaz AB, Fontenla S, Rocha FS, Brandão LR et al. 2014 – Fungal endophyte β–diversity associated with *Myrtaceae* species in an Andean Patagonian forest Argentina and an Atlantic forest Brazil. Fungal Ecology 8, 28–36.

Vaz AB, Mota RC, Bomfim MRQ, Vieira ML et al. 2009 – Antimicrobial activity of endophytic fungi associated with *Orchidaceae* in Brazil. Canadian journal of Microbiology 5512, 1381–1391.

Vaz AB, Vieira ML, Pimenta RS, Morais PB et al. 2012 – Diversity and antimicrobial activity of fungal endophyte communities associated with plants of Brazilian savanna ecosystems. African Journal of Microbiology Research 613, 3173–3185.

Vega FE. 2008 – Insect pathology and fungal endophytes. Journal of Invertebrate Pathology 983, 277–279.

Vega FE, Posada F, Aime MC, Pava–Ripoll M et al. 2008 – Entomopathogenic fungal endophytes. Biological Control 461, 72–82.

Vega FE, Simpkins A, Aime M C, Posada F et al. 2010 – Fungal endophyte diversity in coffee plants from Colombia, Hawai'i, Mexico and Puerto Rico. Fungal Ecology 33, 122–138.

Venieraki A, Dimou M, Katinakis P. 2017 – Endophytic fungi residing in medicinal plants have the ability to produce the same or similar pharmacologically active secondary metabolites as their hosts Hellenic. Plant Protection Journal, 102, 51–66.

Venkatachalam A, Govinda Rajulu MB, Thirunavukkarasu N, Suryanarayanan TS. 2015a – Endophytic fungi of marine algae and seagrasses: a novel source of chitin modifying enzymes. Mycosphere 63, 345–355.

Venkatachalam A, Thirunavukkarasu N, Suryanarayanan TS. 2015b – Distribution and diversity of endophytes in seagrasses. Fungal Ecology, 13, 60–65.

Verkley GJ, Zijlstra JD, Summerbell RC, Berendse F. 2003 – Phylogeny and taxonomy of root–inhabiting *Cryptosporiopsis* species, and *C. rhizophila* sp nov, a fungus inhabiting roots of several Ericaceae. Mycological research 1076, 689–698.

Verma SK, Kharwar RN, Gond SK, Kingsley KL et al. 2017 – Exploring Endophytic Communities of Plants: Methods for Assessing Diversity, Effects on Host Development and Potential Biotechnological Applications. In Seed Endophytes, Springer Cham, 55–82.

Vesterlund SR, Helander M, Faeth SH, Hyvönen T et al. 2011 – Environmental conditions and host plant origin override endophyte effects on invertebrate communities. Fungal Diversity 471,109–118.

Vieira ML, Hughes AF, Gil VB, Vaz AB et al. 2011a – Diversity and antimicrobial activities of the fungal endophyte community associated with the traditional Brazilian medicinal plant *Solanum cernuum* VellSolanaceae. Canadian journal of Microbiology 581, 54–66.

Vieira PDDS, Motta CMDS, Lima D, Torres JB et al. 2011b – Endophytic fungi associated with transgenic and non–transgenic cotton. Mycology 22, 91–97.

Vogl AE. 1898 – Mehl und die anderen Mehlprodukte der Cerealien und Leguminosen. Nahrungsm Unters Hyg Warenk 12, 25–29

Vujanovic V, Brisson J. 2002 – A comparative study of endophytic mycobiota in leaves of *Acer saccharum* in eastern North America. Mycological Progress 12, 147–154.

Waller F, Achatz B, Baltruschat H, Fodor J et al. 2005 – The endophytic fungus *Piriformospora indica reprograms* barley to salt–stress tolerance, disease resistance, and higher yield. Proceedings of the National Academy of Sciences 10238, 13386–13391.

Walther BA, Moore JL. 2005 – The concepts of bias, precision and accuracy, and their use in testing the performance of species richness estimators, with a literature review of estimator performance. Ecography 28 815–829.

Wang FW, Ye YH, Chen JR, Wang XTET AL. 2006 - Neoplaether, a new cytotoxic and antifungal endophyte metabolite from *Neoplaconema napellum* IFB-E016. FEMS microbiology letters 261, 218-223.

Wang J, Li G, Lu H, Zheng Z et al. 2000 – Taxol from *Tubercularia* sp strain TF5, an endophytic fungus of *Taxus mairei*. FEMS Microbiology Letters 1932, 249–253.

Wang JW, Wu JH, Huang WY, Tan RX. 2006 – Laccase production by *Monotospora* sp, an endophytic fungus in *Cynodon dactylon*. Bioresource Technology 975, 786–789.

Wang L, Qin D, Zhang K, Huang Q et al. 2017 – Metabolites from the co–culture of nigranoic acid and Umbelopsis dimorpha SWUKD3 1410, an endophytic fungus from *Kadsura angustifolia*. Natural Product Research 3112, 1414–1421.

Wang L, Ren L, Li C, Gao C et al. 2019 – Effects of endophytic fungi diversity in different coniferous species on the colonization of Sirex noctilio (Hymenoptera: Siricidae). Scientific Reports, 25, 5077.

Wang Y, Tang K. 2011 – A new endophytic taxol–and baccatin III–producing fungus isolated from *Taxus chinensis* var *mairei*. African Journal of Biotechnology 1072, 16379–16386.

Wang YN, Liu XY, Zheng RY. 2013 – Four new species records of *Umbelopsis Mucoromycotina* from China. Journal of Mycology 2013. doi.org/10.1155/2013/970216.

Wang YU, Guo LD, Hyde KD. 2005 – Taxonomic placement of sterile morphotypes of endophytic fungi from *Pinus tabulaeformis* (Pinaceae) in northeast China based on rDNA sequences. Fungal Diversity 20, 235–260.

Wanasinghe DN, Jeewon R, Jones EBG, Boonmee S et al. 2018 – Novel palmicolous taxa within Pleosporales: Multigene phylogeny and taxonomic circumscription. Mycological Progress 17, 571–590.

Wanasinghe DN, Jeewon R, Jones EBG, Tibpromma S et al. 2017 – Saprobic Dothideomycetes in Thailand: *Muritestudina* gen. et sp. nov. (Testudinaceae) a new terrestrial pleosporalean ascomycete, with hyaline and muriform ascospores. Studies in Fungi 2, 219–234.

Waqas M, Khan AL, Kamran M, Hamayun M et al. 2012 – Endophytic fungi produce gibberellins and indoleacetic acid and promotes host–plant growth during stress. Molecules 179, 10754–10773.

Waqas M, Khan AL, Kang SM, Kim YH et al. 2014 – Phytohormone–producing fungal endophytes and hardwood–derived biochar interact to ameliorate heavy metal stress in soybeans. Biology and fertility of Soils 507, 1155–1167.

Wei JG, Xu T. 2004 – *Pestalotiopsis kunmingensis* sp. nov. an endophyte from *Podocarpus macrophyllus*. Fungal Diversity 15, 247–254.

Wei JG, Xu T, Guo LD, Liu AR et al. 2007 – Endophytic *Pestalotiopsis* species associated with plants of *Podocarpaceae,* Theaceae and Taxaceae in southern China. Fungal Diversity 241, 55–74.

Wei JG, Phan CK, Wang L, Xu T et al. 2013 – *Pestalotiopsis yunnanensis* sp. nov., an endophyte from *Podocarpus macrophyllus* (Podocarpaceae) based on morphology and ITS sequence data. Mycological progress 1, 563–568.

Whalley AJ, Suwannasai N, Ruchikachorn N, Sangvichien E et al. 2015 – Endophytic *Xylariaceae* from Thai Plants: A Research Review. Sunandha Science and Technology Journal, 2, 11-17.

White Jr JF. 1988 – Endophyte–host associations in forage grasses. XI. A proposal concerning origin and evolution. Mycologia 442–446

Wibowo M, Prachyawarakorn V, Aree T, Mahidol C et al. 2016 – Cytotoxic sesquiterpenes from the endophytic fungus *Pseudolagarobasidium acaciicola*. Phytochemistry, 122, 126–138.

Wiewióra B, Żurek G, Żurek M. 2015 – Endophyte–mediated disease resistance in wild populations of perennial ryegrass *Lolium perenne*. Fungal Ecology 15, 1–8.
Wijayawardene NN, Hyde KD, Lumbsch HT, Liu JK et al. 2018 – Outline of *Ascomycota*, 2017. Fungal Diversity 88, 167–263
Wijayawardene NN, Hyde KD, Rajeshkumar KC, Hawksworth DL et al 2017 – Notes for genera, *Ascomycota*. Fungal Diversity 86, 1–594.
Wilson D, Carroll GC. 1994 – Infection studies of Discula quercina, an endophyte *of Quercus garryana*. Mycologia 635–647.
Wu H, Yang H, You X, Li Y. 2012 – Isolation and characterization of saponin–producing fungal endophytes from *Aralia elata* in Northeast China. International Journal of Molecular Sciences 1312, 16255–16266.
Wu H, Yang HY, You XL, Li YH. 2013a – Diversity of endophytic fungi from roots of *Panax ginseng* and their saponin yield capacities. SpringerPlus 21, 107.
Wu LS, Hu CL, Han T, Zheng CJ et al. 2013b – Cytotoxic metabolites from *Perenniporia tephropora*, an endophytic fungus from *Taxus chinensis* var mairei. Applied Microbiology and Biotechnology 971, 305–315.
Wu MD, Cheng MJ, Chen IS, Su YS et al. 2013c – Phytochemical investigation of *Annulohypoxylon ilanense*, an endophytic fungus derived from *Cinnamomum* species. Chemistry Biodiversity 103, 493–505.
Xin G, Glawe D, Doty SL. 2009 – Characterization of three endophytic, indole–3–acetic acid–producing yeasts occurring in *Populus* trees. Mycological Research 1139, 973–980.
Xing X, Guo S, Fu J. 2010 – Biodiversity and distribution of endophytic fungi associated with *Panax quinquefolium L* cultivated in a forest reserve. Symbiosis 512, 161–166.
Xing YM, Chen J, Cui JL, Chen XM et al. 2011 – Antimicrobial activity and biodiversity of endophytic fungi in *Dendrobiumdevonianum* and *Dendrobium thyrsiflorum* from Vietman. Current Microbiology 624, 1218–1224.
Xiong ZQ, Yang YY, Zhao N, Wang Y. 2013 – Diversity of endophytic fungi and screening of fungal paclitaxel producer from *Anglojap yew*, *Taxus* x *media*. BMC Microbiology 131, 71.
Yadav M, Yadav A, Yadav JP. 2014 – In vitro antioxidant activity and total phenolic content of endophytic fungi isolated from *Eugenia jambolana* Lam. Asian Pacific Journal of Tropical Medicine 7, S256–S261.
Yan JF, Broughton SJ, Yang SL, Gange AC. 2015 – Do endophytic fungi grow through their hosts systemically? Fungal Ecology 13, 53–59.
Yang H, Ye W, Ma J, Zeng D et al. 2018 – Endophytic fungal communities associated with field–grown soybean roots and seeds in the Huang–Huai region of China. PeerJ 6, e4713.
Yang HR, Hu XP, Jiang CJ, Qi J et al. 2015 – Diversity and antimicrobial activity of endophytic fungi isolated from *Cephalotaxus hainanensis* Li, a well-known medicinal plant in China. Letters in Applied Microbiology 615, 484–490.
Yokoya K, Postel S, Fang R, Sarasan V. 2017 – Endophytic fungal diversity of *Fragaria vesca*, a crop wild relative of strawberry, along environmental gradients within a small geographical area. Peer J 5, e2860.
You YH, Yoon NG, Yoon H, Kim H et al. 2014 – Diversity Analysis of Endophytic Fungi Isolated from the Roots of Coastal Plants in *Taean Peninsula*. The Korean Journal of Mycology 421, 79–85.
Younginger BS, Ballhorn DJ. 2017 – Fungal endophyte communities in the temperate fern *Polystichum munitum* show early colonization and extensive temporal turnover. American Journal of Botany 1048, 1188–1194.
Yu J, Wu Y, He Z, Li M et al. 2018 – Diversity and Antifungal Activity of Endophytic Fungi Associated with *Camellia oleifera*. Mycobiology 1–7.
Yu H, Zhang L, Li L, Zheng C et al. 2010 – Recent developments and future prospects of antimicrobial metabolites produced by endophytes. Microbiological Research 1656, 437–449.

Yu NH, Kim JA, Jeong MH, Cheong YH et al. 2014 – Diversity of endophytic fungi associated with bryophyte in the maritime Antarctic King George Island. Polar Biology 371, 27–36.
Yu X, Huo L, Liu H, Chen L et al. 2015 – Melanin is required for the formation of the multi–cellular conidia in the endophytic fungus *Pestalotiopsis microspora*. Microbiological research 179, 1–11.
Yuan Z, Chen L. 2014 – The role of endophytic fungal individuals and communities in the decomposition of *Pinus massoniana* needle litter. PLoS One 98, e105911.
Yuan Z, Chen Y, Yang Y. 2009 – Diverse non–mycorrhizal fungal endophytes inhabiting an epiphytic, medicinal orchid *Dendrobium nobile*, estimation and characterization. World Journal of Microbiology and Biotechnology 25, 295-303.
Yuan ZL, Zhang CL, Lin FC, Kubicek CP. 2010 – Identity, diversity, and molecular phylogeny of the endophytic *mycobiota* in the roots of rare wild rice *Oryza granulate* from a nature reserve in Yunnan, China. Applied and Environmental Microbiology 765, 1642–1652.
Zabalgogeazcoa I. 2008 – Fungal endophytes and their interaction with plant pathogens: a review. Spanish Journal of Agricultural Research 6S1, 138–146.
Zaferanloo B, Virkar A, Mahon PJ, Palombo EA. 2013 – Endophytes from an Australian native plant are a promising source of industrially useful enzymes. World Journal of Microbiology and Biotechnology 292, 335–345.
Zakaria L, Jamil MIM, Anuar ISM. 2016 – Molecular characterisation of endophytic fungi from roots of wild banana *Musa acuminata*. Tropical Life Sciences Research 271, 153–162.
Zeng PY, Wu JG, Liao LM, Chen TQ et al. 2011 – In vitro antioxidant activities of endophytic fungi isolated from the liverwort *Scapania verrucosa*. Genetics and Molecular Research 104, 3169–3179.
Zhang CL, Wang GP, Mao LJ, Komon–Zelazowska M et al. 2010a – *Muscodor fengyangensis* sp nov from southeast China: morphology, physiology and production of volatile compounds. Fungal biology 11410, 797–808.
Zhang FF, Wang MZ, Zheng YX, Liu HY et al. 2015 – Isolation and characterzation of endophytic Huperzine A–producing fungi from *Phlegmariurus phlegmaria*. Microbiology 845, 701–709.
Zhang G, Sun S, Zhu T, Lin Z et al. 2011 – Antiviral isoindolone derivatives from an endophytic fungus *Emericella* sp associated with *Aegiceras corniculatum*. Phytochemistry 7211–12, 1436–1442.
Zhang SN, Hyde KD, Jones EG, Jeewon R et al. 2019 – Striatiguttulaceae, a new pleosporalean family to accommodate the genera *Longicorpus* gen. nov. and *Striatiguttula* gen. nov., from palms in mangrove ecosystem. MycoKeys 49, 99–129.
Zhang T, Yao YF. 2015 – Endophytic fungal communities associated with vascular plants in the high arctic zone are highly diverse and host–plant specific. PLoS One 106, e0130051.
Zhang T, Zhang YQ, Liu HY, Wei YZ et al. 2013 – Diversity and cold adaptation of culturable endophytic fungi from bryophytes in the Fildes Region, King George Island, maritime Antarctica. FEMS Microbiology Letters 3411, 52–61.
Zhang X, Ren A, Ci H, Gao Y. 2010b – Genetic diversity and structure of *Neotyphodium* species and their host *Achnatherum sibiricum* in a natural grass–endophyte system. Microbial Ecology 594, 744–756.
Zhang Y, Mu J, Feng Y, Kang Y et al. 2009 – Broad–spectrum antimicrobial epiphytic and endophytic fungi from marine organisms: isolation, bioassay and taxonomy. Marine Drugs 72, 97–112.
Zhao J, Li C, Wang W, Zhao C et al. 2013 – *Hypocrea lixii*, novel endophytic fungi producing anticancer agent cajanol, isolated from pigeon pea *C. ajanus cajan* (L) Millsp. Journal of Applied Microbiology 1151, 102–113.
Zhao J, Mou Y, Shan T, Li Y et al. 2010a – Antimicrobial metabolites from the endophytic fungus *Pichia guilliermondii* isolated from *Paris polyphylla* var *yunnanensis*. Molecules 1511, 7961–7970.

Zhao J, Zhou L, Wang, J, Shan T et al. 2010b – Endophytic fungi for producing bioactive compounds originally from their host plants. Current Research, Technology and Education Topics Applied Microbiology and Microbial Biotechnology 1, 567–576.

Zhao JC, Wang YL, Zhang TY, Chen ZJ et al. 2018 – Indole diterpenoids from the endophytic fungus *Drechmeria* sp. as natural antimicrobial agents. Phytochemistry 148, 21–28.

Zhao K, Zhou D, Ping W, Ge J. 2004 – Study on the preparation and regeneration of protoplast from taxol–producing fungus *Nodulisporium sylviforme*. Nature and Science 22, 52–59.

Zheng C–J, Li L, Zou J, Han T, Qin LP. 2012 – Identification of a quinazoline alkaloid produced by *Penicillium vinaceum*, an endophytic fungus from *Crocus sativus*. Pharmaceutical Biology 50, 129–133.

Zheng YK, Miao CP, Chen HH, Huang FF et al. 2017 – Endophytic fungi harbored in *Panax notoginseng*: diversity and potential as biological control agents against host plant pathogens of root–rot disease. Journal of Ginseng Research 413, 353–360.

Zhenhua X, Dongmei G, Xiuli S, Ying X. 2012 – A review of endophyte and its use and function. Advances in Biomedical Engineering 8, 124.

Zhong LY, Zou L, Tang XH, Li WF et al. 2017 – Community of endophytic fungi from the medicinal and edible plant *Fagopyrum tataricum* and their antimicrobial activity. Tropical Journal of Pharmaceutical Research 162, 387–396.

Zhou J, Diao X, Wang T, Chen G et al. 2018 – Phylogenetic diversity and antioxidant activities of culturable fungal endophytes associated with the mangrove species *Rhizophora stylosa* and *R. mucronata* in the South China Sea. PLoS One 136, e0197359.

Zhu GS, Yu ZN, Gui Y, Liu ZY. 2008 – A novel technique for isolating orchid mycorrhizal fungi. Fungal Diversity 33, 123–137.

Zhu XJ, Hu YF, Chen X, Wang YH et al. 2016 – Endophytic fungi from *Camellia sinensis* show an antimicrobial activity against the rice blast pathogen *Magnaporthe grisea* Phyton. International Journal of Experimental Botany 831, 57–63.

Zikmundova M, Drandarov K, Bigler L, Hesse M et al. 2002 – Biotransformation of 2–benzoxazolinone and 2–hydroxy–1, 4–benzoxazin–3–one by endophytic fungi isolated from *Aphelandra tetragona*. Applied and Environmental Microbiology 6810, 4863–4870.

Zimmerman NB, Vitousek PM. 2012 – Fungal endophyte communities reflect environmental structuring across a Hawaiian landscape. Proceedings of the National Academy of Sciences 109, 13022–13027.