

A review of bambusicolous Ascomycota in China with an emphasis on species richness in southwest China

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Abstract

Bamboos not only provide socio-economic benefits to communities within the region, but also provide ecosystem services such as soil-water conservation, stabilization of sandy soils and restoration of soil nutrients. Bambusicolous ascomycetes refer to ascomycetous fungi living on any substrate of bamboo. As the largest group of fungi on bamboo, they play a significant ecological value in species composition and the structure of the fungal community, circulation of materials and energy flow of nutritional elements. In an effort to document the bambusicolous Ascomycota found in China, we assessed all major sources of academic literature, journal papers, and the USDA database (<https://nt.ars-grin.gov/fungalatabases/fungushost/fungushost.cfm>) for reports of these fungi from China. As a result, we produced a systematic and comprehensive checklist of bambusicolous Ascomycota in China. Current names of fungi, bamboo host name, bamboo substrate, details of collected localities, references and latest classification for every bambusicolous ascomycete in China are also provided. In addition, we focused on the species richness of bambusicolous Ascomycota in China with an emphasis on southwest China.

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Introduction

Bamboo is placed within the subfamily Bambusoideae under Poaceae as a kind of large grass. Bamboo has a wide natural distribution, occurring from approximately 46° N latitude to 47° S latitude and from sea level to all the way up to 4,300 meters above sea level. According to estimations, approximately 1,500 bamboo species in 120 genera have been discovered around the world^[1], and 762 bamboo species in 44 genera, have been reported in China^[1]. Moreover, southwest China is recognized as the richest area of bamboo species in China, particularly Yunnan Province (accounting for 50% of all bamboo species diversity in China)^[2]. Except Heilongjiang Province, Inner Mongolia Autonomous Region and Xinjiang Autonomous Region, bamboo is widely distributed across China^[3]. Bamboo distribution in China is divided into five areas viz. north China, southeast China, south China, southwest China, and a special area (Qiong-Dian tropical bamboo area containing northern and middle parts of Hainan Province and southern and western parts of Yunnan Province)^[3].

Due to the differences of climate, soil and terrain, in addition to biological characteristics of bamboo species, the distribution of bamboo in China presents obvious zonality and regionality^[3]. The bamboo forests in north China occur in around 30°–37° N latitude, with 12–17 °C of mean annual temperature, –4–4 °C average temperature in January and 500–1,200 mm of annual precipitation^[3]. Whereas, the bamboo forests in southeast China are placed in the environment of approximately 25°–30° N latitude, 15–20 °C mean annual temperature, 4–8 °C average temperature in January and 1,200–1,800 mm of annual precipitation^[3]. The bamboo forests in south China and southwest China occur below 25° N latitude, 20–22 °C mean annual temperature, above 8 °C average temperature in January and more than 1,800 mm of annual precipitation^[3]. Qiong-Dian tropical bamboo area has extremely rich hydrothermal resources, which causes unique bamboo species composition^[3]. It is mainly characterized by having a variety of climbing clustered bamboos.

These five bamboo areas feature some differences across the common bamboo genera. Bamboo genera such as *Bashania*,

Fargesia, *Phyllostachys*, *Pleioblastus*, *Sasa* and *Semiarundinaria* are common across north China. *Bambusa*, *Indocalamus*, *Indosasa*, *Phyllostachys*, *Pleioblastus*, *Neosinocalamus* and *Semiarundinaria* are common in southeast China. *Bambusa*, *Dendrocalamopsis* and *Sinobambusa* are common in south China. *Cephalostachyum*, *Dendrocalamus*, *Gigantochloa* and *Thyrsostachys* are common in southwest China. *Bambusa*, *Dinochloa* and *Schizostachyum* are common in the Qiong-Dian tropical bamboo area.

Bamboo can be used in more than 1,500 traditional ways^[4], and as food (including bamboo vinegar), building materials, and musical instruments. Total area of bamboo forest is around 6.73×10^6 hm² in China, as reported by the Chinese National Forestry and Grassland Administration^[5]. Recently, the total output value of the Chinese bamboo industry exceeded 245 billion Chinese Yuan in 2018. Besides great economic value, bamboo plays an important role in ecology. Every hectare of bamboo forest can store 1,000 tons of water. The annual carbon accumulation of Moso bamboo forest was reported to be 12.749 t hm⁻² and is 1.46 times that of fast-growing Chinese fir trees^[6].

Bamboo is an environmentally friendly plant and plays an important role in sustainable development and conservation. As a commercial plant, it is a valuable renewable resource not only in its natural habitats, but also wherever it is cultivated throughout the world.

Definition and history of bambusicolous Ascomycota

Hino^[7] firstly used the term 'bambusicolous' to describe fungi found on bamboo, which means 'organism living on bamboo'. In 2002, Hyde et al.^[8] offered a specific definition of bambusicolous fungi, as fungi that grow on any bamboo substrates, including leaves, culms, branches, sheathes, flowers, rhizomes and roots. Therefore, bambusicolous ascomycetes refer to the ascomycetes in bambusicolous fungi. Bambusicolous Ascomycota not only includes ascomycetous taxa with sexual morphs, but also some coelomycetes and hyphomycetes as asexual morphs.

Léveillé first worked on fungi associated with bamboo and described *Dothidea goudotii* Lév (current name: *Roumegueria goudotii* (Lév.) Sacc. ex Clem. & Shear) from leaves of *Chusquea* sp. and *Sphaeria bambusae* Lév (current name: *Anthostomella bambusae* (Lév.) Sacc.) from culms of *Bambusa bambos* (L.) Voss. ex Vilm. as the first records on bamboo in the world^[9]. In the following year, Léveillé^[10] reported another two novel bambusicolous ascomycetes viz. *Asterina microscopica* Lev. and *Sphaeria hypoxantha* Lev. (current name: *Eutypa hypoxantha* (Lév.) Starbäck).

In the last 200 years, nearly 1150 bambusicolous Ascomycota have been introduced, mostly from Asia^[11], and there are three distinct periods where the number of bambusicolous ascomycetes increased sharply. From 1901 to 1920, over 80 new ascomycetes were discovered per decade; from 1951 to 1990, over 120 new ascomycetes were introduced per decade; and from 2011 to 2017, over 150 new ascomycetes were reported in seven years^[11]. From 2017 to 2021, there were over 50 new bambusicolous ascomycetes introduced^[12–51]. Most novel species are reported from China and Thailand and feature high diversity. There is no doubt that the science of bambusicolous ascomycetes developed substantially after 2010.

The history of bambusicolous Ascomycota in China can be recognised from the 1930s. In 1932, *Oedocephalum glomerulosum* var. *cantonense* Teng (current name: *O. glomerulosum* (Bull.) Sacc.) is the first reported species of bambusicolous fungus from China and also the first recorded bambusicolous ascomycete in China^[52]. Tai^[52] compiled all species of bambusicolous fungi recorded before 1979 in China. Kuai^[53] listed 190 pathogenic bambusicolous fungi from mainland China and Taiwan. Eriksson & Yue^[54] gave a list of 587 bambusicolous pyrenomycetes, of which 25 taxa were reported from China. Zhang & Wang^[55] provided a checklist of 104 bambusicolous taxa collected from China. Zhou et al.^[56] reviewed the diversity and resources of bambusicolous fungi in China. Subsequently, there have been no comprehensive studies on Chinese bambusicolous fungi, let alone bambusicolous Ascomycota in southwest China.

The importance of bambusicolous Ascomycota

There is a lack of information on the disease records and identification of bambusicolous pathogenic fungi which can impact the development of the bamboo industry and result in numerous ecological issues. Although bambusicolous ascomycetous pathogens can cause economic and ecological loss, there are many pathogenic Ascomycota which have potential medicinal value. *Shiraia bambusicola* Henn. is well known as a metabolite, hypocrellin^[57] has promising applications in photodynamic therapy (PDT) for anticancer treatment^[58]. From *Rubroshiraia bambusae*, another medicinal ascomycete, Hypocrellin A and B are extracted in large amounts^[17]. However, the fungus was originally mistakenly recognized as *Shiraia bambusicola* in China because of its high similarity in ascostromatal morphology. However, through phylogeny and fungal morphological observation, Dai et al.^[17] introduced *Rubroshiraia* to accommodate *Rubroshiraia bambusae*. Lenormandins, a newly discovered secondary metabolite, is regarded as further representative of azaphilone pigment, has been found from *Hypoxylon* spp., which is also a promising drug lead^[59].

Bambusicolous Ascomycota as saprobes, decompose dead bamboo plants and promote nutrient in forest ecosystems. As endophytes, bambusicolous Ascomycota affects bamboo development, growth and ultimately the quality and quantity of compounds harvested from bamboo^[60]. Bambusicolous Ascomycota accounts for approximately 60% of all bamboo fungi, which indicates that it has great contributions in species composition and the structure of fungal communities^[61].

Bambusicolous Ascomycota indirectly affects economic development. Through biocontrol of bambusicolous pathogens, they can help to reduce losses in the bamboo industry, in addition, maintain the quantity of the bamboo population and ecological functions of bamboo forest.

Host specificity and tissue specificity of bambusicolous Ascomycota

During our investigation, most bambusicolous Ascomycota in China are saprobes and pathogens are less reported, which indicates that they are not likely to be host-specific because the latter is mostly related to plant pathogens^[62]. Zhou et al.^[56] suggested that host specificity for bambusicolous Ascomycota was quite complicated with some of the fungi having host specificity at the family or subfamily level. In our investigation of bambusicolous Ascomycota in China, we observed that host specificity of bambusicolous Ascomycota is rather ambiguous

Bambusicolous Ascomycota in China

under family or the subfamily level, and some of these species need to be confirmed when we take other hosts into consideration.

Currently, many bambusicolous Ascomycota cannot be regarded as tissue-specific. Most bambusicolous Ascomycota are only reported on bamboo culms and leaves. Whereas fungi on other bamboo substrates such as fruits, inflorescences, shoots and sheaths are less reported. To date, bambusicolous pathogens such as *Phyllachora* spp. are only confined to bamboo leaves^[8].

Geographical distribution of bambusicolous Ascomycota in China

To date, bambusicolous Ascomycota is distributed in two

Chinese province-level municipalities (Beijing and Shanghai), one autonomous region (Inner Mongolia), one special administrative region (Hong Kong) and 23 provinces, viz. Anhui, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hainan, Hebei, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Liaoning, Qinghai, Shaanxi, Shandong, Shanxi, Sichuan, Taiwan, Yunnan and Zhejiang (Table 1). Most bambusicolous Ascomycota in China are known from Taiwan with 144 species, followed by Hong Kong with 139 species, Yunnan with 133 species, Guangdong with 53 species, Zhejiang with 37 species, Jiangsu with 36 species and Sichuan with 35 species. Since the year 2000, research on bambusicolous Ascomycota has increased sharply, particularly in Guangdong and Yunnan provinces.

Table 1. Checklist of bambusicolous Ascomycota in China.

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Acanthostigma bambusicola</i>	Bamboo	Decaying culms	Guangxi, Jiangsu, Yunnan, Zhejiang	Dothideomycetes/ Tubeufiales/ Tubeufiaceae	[52]
<i>Acremonium moriforme</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Bionectriaceae	[68]
<i>Acremonium murorum</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Bionectriaceae	[69]
<i>Acremonium persicinum</i>	<i>Phyllostachys edulis</i> , <i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Bionectriaceae	[69]
<i>Acrodactys bambusicola</i>	Bamboo	Dead branches	Hainan	Sordariomycetes families, <i>incertae sedis</i> / Acrodactyaceae	[70]
<i>Acrodactys bambusicola</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes families, <i>incertae sedis</i> / Acrodactyaceae	[63]
<i>Acrodactys bambusicola</i>	<i>Phyllostachys</i> sp.	Culms	Taiwan	Sordariomycetes families, <i>incertae sedis</i> / Acrodactyaceae	[69]
<i>Acrodactys irregularis</i>	Bamboo	Decaying culms	Zhejiang	Sordariomycetes families, <i>incertae sedis</i> / Acrodactyaceae	[70]
<i>Acrodactys porosiseptata</i>	<i>Bambusa</i> sp.	Dead culms	Hainan	Sordariomycetes families, <i>incertae sedis</i> / Acrodactyaceae	[70]
<i>Acrogenospora sphaerocephala</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/Minutisphaerales/ Acrogenosporaceae	[63]
<i>Acrogenospora sphaerocephala</i>	<i>Phyllostachys makinoi</i>	Culms	Taiwan	Dothideomycetes/Minutisphaerales/ Acrogenosporaceae	[69]
<i>Acrogenospora verrucispora</i>	Bamboo	Culms	Yunnan	Dothideomycetes/Minutisphaerales/ Acrogenosporaceae	[71]
<i>Acumispora phragmospora</i>	<i>Phyllostachys makinoi</i>	Dead leaves	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Aithaloderma bambusinum</i>	<i>Bambusa</i> sp.	N/A	Zhejiang	Dothideomycetes/Capnodiales/ Capnodiaceae	[52]
<i>Albomyces take</i>	<i>Bambusa multiplex</i>	Culms	Taiwan	Sordariomycetes/Hypocreales/ Clavicipitaceae	[72]
<i>Albomyces take</i>	<i>Dendrocalamus latiflorus</i>	N/A	China	Sordariomycetes/Hypocreales/ Clavicipitaceae	[73]
<i>Albomyces take</i>	<i>Phyllostachys edulis</i>	N/A	Guizhou, Hunan, Sichuan	Sordariomycetes/Hypocreales/ Clavicipitaceae	[73]
<i>Albomyces take</i>	<i>Phyllostachys glauca</i>	N/A	Henan, Hunan, Zhejiang	Sordariomycetes/Hypocreales/ Clavicipitaceae	[73]
<i>Albomyces take</i>	<i>Phyllostachys heteroclada</i>	N/A	Hunan	Sordariomycetes/Hypocreales/ Clavicipitaceae	[73]
<i>Albomyces take</i>	<i>Phyllostachys reticulata</i> , <i>Phyllostachys sulphurea</i> var. <i>viridis</i>	N/A	Henan	Sordariomycetes/Hypocreales/ Clavicipitaceae	[73]
<i>Albomyces take</i>	<i>Phyllostachys</i> sp.	N/A	Guizhou, Henan, Hubei, Hunan, Jiangsu, Zhejiang	Sordariomycetes/Hypocreales/ Clavicipitaceae	[52,73]
<i>Albomyces take</i>	<i>Semiarundinaria densiflora</i>	N/A	Zhejiang	Sordariomycetes/Hypocreales/ Clavicipitaceae	[73]
<i>Alpakesa taiwanensis</i>	<i>Bambusa</i> sp.	Rotten culms	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[74]
<i>Alternaria alternata</i>	Bamboo	Dead leaves	Guizhou	Dothideomycetes/Pleosporales/ Pleosporaceae	[75]
<i>Alternaria alternata</i>	<i>Bambusa tuldooides</i>	Leaves and leaf sheaths	Hong Kong	Dothideomycetes/Pleosporales/ Pleosporaceae	[63]
<i>Alveophoma caballeri</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]
<i>Alysiidiopsis pipsissewae</i>	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Amphibambusa hongheensis</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/Xylariales/ Cainiaceae	[47]
<i>Annulatascus fusiformis</i>	<i>Phyllostachys reticulata</i>	Decaying culms	Yunnan	Sordariomycetes/Annulatascales/ Annulatasceae	[76]
<i>Annulatascus hongkongensis</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Annulatascales/ Annulatasceae	[63]
<i>Annulatascus</i> sp.	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes/Annulatascales/ Annulatasceae	[63]
<i>Antennospora quadricornuta</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Microascales/ Halosphaeriaceae	[63]
<i>Anthostomella bromeliaceae</i>	<i>Sinobambusa tootsik</i>	Culms	Hong Kong	Sordariomycetes/Xylariales/ Xylariaceae	[63]
<i>Anthostomella contaminans</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Xylariales/ Xylariaceae	[63]
<i>Anthostomella eructans</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Xylariales/ Xylariaceae	[63]
<i>Anthostomella flagellariae</i>	<i>Bambusa basihirsuta</i> , <i>Bambusa chungii</i>	Culms	Hong Kong	Sordariomycetes/Xylariales/ Xylariaceae	[63]
<i>Anthostomella frondicola</i>	<i>Bambusa</i> sp.	Dead culms	Hong Kong	Sordariomycetes/Xylariales/ Xylariaceae	[63]
<i>Anthostomella nitidissima</i>	Bamboo	Dead culms	Guangdong, Yunnan	Sordariomycetes/Xylariales/ Xylariaceae	[52]
<i>Anthostomella profunda</i>	Bamboo	Rotten culms	Guangdong	Sordariomycetes/Xylariales/ Xylariaceae	[52]
<i>Anthostomella uniseriata</i>	<i>Bambusa mutabilis</i> , <i>Bambusa vulgaris</i>	Culms	Hong Kong	Sordariomycetes/Xylariales/ Xylariaceae	[63]
<i>Anthostomella yushaniae</i>	<i>Yushania niitakayamensis</i>	Dead culms	Taiwan	Sordariomycetes/Xylariales/ Xylariaceae	[77]
<i>Apiospora arundinis</i>	Bamboo	Dead culms	Guizhou	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Apiospora arundinis</i>	Bamboo	Rotten culms	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora arundinis</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora arundinis</i>	<i>Bambusa</i> sp.	N/A	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora arundinis</i>	<i>Bambusa tuldoidea</i>	Leaves	Hong Kong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[63]
<i>Apiospora arundinis</i>	<i>Phyllostachys</i> sp.	N/A	Guangdong, Guangxi, Hunan, Jiangsu, Yunnan, Zhejiang	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora arundinis</i>	<i>Phyllostachys violascens</i>	Culms	Jiangsu	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[79]
<i>Apiospora camelliae-sinensis</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora camptospora</i>	<i>Bambusa vulgaris</i>	Sheaths	Hong Kong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[63]
<i>Apiospora chromolaenae</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora garethjonesii</i>	Bamboo	Dead branches	Guizhou	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Apiospora garethjonesii</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[80]
<i>Apiospora guizhouensis</i>	Bamboo	Dead culms	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Apiospora guizhouensis</i>	<i>Bambusa multiplex</i>	Twigs	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[81]
<i>Apiospora hydei</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[80]
<i>Apiospora hydei</i>	Bamboo	Leaves	Guizhou	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Apiospora hydei</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora hydei</i>	<i>Bambusa tuldoidea</i>	Culms	Hong Kong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[82]
<i>Apiospora hydei</i>	<i>Phyllostachys nigra</i>	Dead culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[83]
<i>Apiospora hyphopodii</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[80]
<i>Apiospora hyphopodii</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Apiospora hyphopodii</i>	<i>Bambusa tuldoidea</i>	Dead culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[84]
<i>Apiospora hysterina</i>	<i>Bambusa</i> sp.	Dead culms	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora hysterina</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora indica</i>	<i>Bambusa</i> sp.	N/A	China	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[85]
<i>Apiospora jiangxiensis</i>	Bamboo	N/A	Hunan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[86]
<i>Apiospora jiangxiensis</i>	<i>Phyllostachys</i> sp.	N/A	Jiangxi	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[86]
<i>Apiospora jiangxiensis</i>	<i>Phyllostachys heteroclada</i>	Dead culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[83]
<i>Apiospora locuta-pollinis</i>	Bamboo	Dead stems	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[87]
<i>Apiospora locuta-pollinis</i>	<i>Phyllostachys aureosulcata</i>	Culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[88]
<i>Apiospora malaysiana</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora marii</i>	<i>Pseudosasa hindsii</i>	Culms	Hong Kong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[82]
<i>Apiospora neobambusae</i>	Bamboo	Leaves	Guangdong, Jiangxi	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[86]
<i>Apiospora neobambusae</i>	<i>Bambusa dolichoclada</i>	Sheaths	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[81]
<i>Apiospora neochinensis</i>	<i>Fargesia qinlingensis</i>	Dead culms	Shaanxi	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[34]
<i>Apiospora neochinensis</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora neogarethjonesii</i>	Bamboo	Culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[32]
<i>Apiospora neosubglobosa</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[80]
<i>Apiospora neosubglobosa</i>	Bamboo	Dead culms	Guizhou	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Apiospora neosubglobosa</i>	<i>Phyllostachys bissetii</i>	Dead culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[83]
<i>Apiospora ovata</i>	<i>Pseudosasa hindsii</i>	N/A	Hong Kong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[82]
<i>Apiospora paraphaeosperma</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora phyllostachydis</i>	Bamboo	Dead culms	Guizhou	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Apiospora phyllostachydis</i>	<i>Phyllostachys heteroclada</i>	Culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[25]
<i>Apiospora pseudoparenchymatica</i>	Bamboo	Decaying culms	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Apiospora pseudoparenchymatica</i>	Bamboo	N/A	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[86]
<i>Apiospora pseudoparenchymatica</i>	<i>Dendrocalamus latiflorus</i>	Culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[89]
<i>Apiospora qinlingensis</i>	<i>Fargesia qinlingensis</i>	Culms	Shaanxi	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[14]
<i>Apiospora rasikravindrae</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora sasae</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora setostroma</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[20]
<i>Apiospora shiraiana</i>	Bamboo	Dead culms	Anhui, Fujian, Hebei, Guangdong, Guangxi, Hunan, Jiangsu, Sichuan, Zhejiang	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora shiraiana</i>	<i>Bambusa blumeana</i>	Dead culms	Taiwan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[72]
<i>Apiospora shiraiana</i>	<i>Bambusa emeiensis</i>	Dead culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora shiraiana</i>	<i>Bambusa emeiensis</i>	N/A	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora shiraiana</i>	<i>Bambusa</i> sp.	Dead culms	Guangdong, Taiwan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Apiospora shiraiana</i>	<i>Bambusa vulgaris</i>	N/A	Guangxi	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora</i> sp.	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[63]
<i>Apiospora striola</i>	Bamboo	Rotten culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[52]
<i>Apiospora subrosea</i>	Bamboo	N/A	Jiangxi	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[86]
<i>Apiospora yunnana</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[78]
<i>Apiospora yunnana</i>	<i>Phyllostachys aurea</i>	Dead culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[83]
<i>Apiospora yunnana</i>	<i>Phyllostachys heteroclada</i>	Culms	Sichuan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[90]
<i>Apiospora yunnana</i>	<i>Phyllostachys nigra</i>	Dead culms	Yunnan	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[91]
<i>Appendispora frondicola</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/Pleosporales/ Didymosphaeriaceae	[63]
<i>Arecophila bambusae</i>	<i>Bambusa</i> sp., <i>Dendrocalamus pulverulentus</i>	Culms	Hong Kong	Sordariomycetes/Xylariales/ Cainiaceae	[63]
<i>Arecophila bambusae</i>	<i>Bambusa tuldoidea</i>	N/A	Hong Kong	Sordariomycetes/Xylariales/ Cainiaceae	[92]
<i>Arecophila coronata</i>	<i>Bambusa</i> sp.	Dead culms	Hong Kong	Sordariomycetes/Xylariales/ Cainiaceae	[93]
<i>Arecophila nypae</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Xylariales/ Cainiaceae	[63]
<i>Arthrimum acutiapicum</i>	<i>Bambusa bambos</i>	Dead twigs	Guangdong	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[81]
<i>Arthrimum biseriale</i>	Bamboo	Dead branches and culms	Guizhou	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Arthrimum gelatinosum</i>	Bamboo	Dead branches and culms	Guizhou	Sordariomycetes/Amphisphaeriales/ Apiosporaceae	[45]
<i>Arthrimum macrosporum</i>	<i>Bambusa</i> sp.	Dead leaf sheaths	Guangdong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[94]
<i>Arthrimum phaeospermum</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[78]
<i>Arthrimum phaeospermum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[63]
<i>Arthrimum phaeospermum</i>	<i>Bambusa</i> sp.	Dead culms	Guangdong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[52]
<i>Arthrimum phaeospermum</i>	<i>Bambusa tuldoidea</i> , <i>Dendrocalamus</i> sp.	Leaves	Hong Kong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[63]
<i>Arthrimum phaeospermum</i>	<i>Chimonobambusa szechuanensis</i>	N/A	Sichuan	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[52]
<i>Arthrimum phaeospermum</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[69]
<i>Arthrimum phaeospermum</i>	<i>Phyllostachys sulphurea</i> var. <i>viridis</i>	Culms	Fujian	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[95]
<i>Arthrimum pseudorasikravindrae</i>	<i>Bambusa dolichoclada</i>	Sheaths	Guangdong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[81]
<i>Arthrimum septatum</i>	Bamboo	Dead branches and culms	Guizhou	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[45]
<i>Arthrotrichum conoides</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Orbiliomycetes/ Orbiliales/ Orbiliaceae	[69]
<i>Arthrotrichum rickii</i>	Bamboo	Culms	Guangxi	Ascomycota genera, <i>incertae sedis</i>	[52]
<i>Ascocyunnania aquatica</i>	Bamboo	N/A	Yunnan	Sordariomycetes genera, <i>incertae sedis</i>	[96]
<i>Asteromidium</i> sp.	<i>Bambusa</i> sp.	Culms	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]
<i>Astrocystis bambusae</i>	<i>Dendrocalamus latiflorus</i> , <i>Phyllostachys makinoi</i>	Culms	Taiwan	Sordariomycetes/ Xylariales/ Xylariaceae	[97]
<i>Astrocystis bambusicola</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/ Xylariales/ Xylariaceae	[30]
<i>Astrocystis bambusicola</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Xylariales/ Xylariaceae	[78]
<i>Astrocystis mirabilis</i>	Bamboo	Rotten culms	Anhui, Fujian, Hunan, Guangdong, Jiangxi, Sichuan, Yunnan, Zhejiang	Sordariomycetes/ Xylariales/ Xylariaceae	[52]
<i>Astrocystis mirabilis</i>	Bamboo	N/A	Taiwan	Sordariomycetes/ Xylariales/ Xylariaceae	[98]

(to be continued)

Bambusicolous Ascomycota in China

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Astrocystis mirabilis</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Xylariales/ Xylariaceae	[78]
<i>Astrocystis mirabilis</i>	<i>Dendrocalamus latiflorus</i> , <i>Phyllostachys edulis</i>	Culms	Taiwan	Sordariomycetes/ Xylariales/ Xylariaceae	[97]
<i>Astrocystis pseudomirabilis</i>	Bamboo	Dead culms	Guizhou	Sordariomycetes/ Xylariales/ Xylariaceae	[99]
<i>Astrocystis</i> sp.	<i>Yushania niitakayamensis</i>	N/A	Taiwan	Sordariomycetes/ Xylariales/ Xylariaceae	[98]
<i>Astrocystis sublimbata</i>	Bamboo	Dead culms	Guizhou	Sordariomycetes/ Xylariales/ Xylariaceae	[99]
<i>Astrocystis tessellati</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/ Xylariales/ Xylariaceae	[99]
<i>Astrosphaeriella fusispora</i>	Bamboo	Dead culms	Guangdong, Guangxi, Sichuan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[52]
<i>Astrosphaeriella linguiformis</i>	<i>Phyllostachys</i> sp.	Culms	Taiwan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[100]
<i>Astrosphaeriella minima</i>	Bamboo	Dead culms	Guangdong, Guangxi	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[52]
<i>Astrosphaeriella neostellata</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[101]
<i>Astrosphaeriella neostellata</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[78]
<i>Astrosphaeriella nypae</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[63]
<i>Astrosphaeriella splendida</i>	<i>Pseudosasa hindsii</i>	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[102]
<i>Astrosphaeriella stellata</i>	Bamboo	Dead culms	Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hunan, Jiangsu, Sichuan, Yunnan, Zhejiang	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[52]
<i>Astrosphaeriella stellata</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[78]
<i>Astrosphaeriella stellata</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[63]
<i>Astrosphaeriella stellata</i>	<i>Bambusa textilis</i> , <i>Dendrocalamus pulverulentus</i> , <i>Oligostachyum shiuyingianum</i>	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[102]
<i>Astrosphaeriella stellata</i>	<i>Dendrocalamus latiflorus</i>	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[77]
<i>Astrosphaeriella trochus</i>	Bamboo	Rotten culms	Guangdong, Yunnan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[52]
<i>Astrosphaeriellopsis bakeriana</i>	<i>Bambusa chungii</i> , <i>Bambusa multiplex</i> , <i>Bambusa</i> sp., <i>Dendrocalamus pulverulentus</i>	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[102]
<i>Astrosphaeriellopsis bakeriana</i>	<i>Phyllostachys edulis</i>	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[102]
<i>Atrocalyx bambusae</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Lophotremataceae	[101]
<i>Bactrodesmium guamense</i>	<i>Phyllostachys edulis</i>	N/A	Taiwan	Dothideomycetes genera, <i>incertae sedis</i>	[74]
<i>Bactrodesmium microleucurum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes genera, <i>incertae sedis</i>	[63]
<i>Bactrodesmium spilomeum</i>	<i>Bambusa</i> sp.	Leaves	Hong Kong	Dothideomycetes genera, <i>incertae sedis</i>	[63]
<i>Balladyna lelebae</i>	<i>Bambusa multiplex</i>	Leaves	Taiwan	Dothideomycetes families, <i>incertae sedis</i> / Balladynaceae	[72]
<i>Balladyna lelebae</i>	<i>Bambusa multiplex</i> var. <i>shimadae</i>	Leaves	Taiwan	Dothideomycetes families, <i>incertae sedis</i> / Balladynaceae	[52]
<i>Bambusicola aquatica</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Bambusicolaceae	[29,78]
<i>Bambusicola guttulata</i>	Bamboo	Dead branches	Sichuan	Dothideomycetes/ Pleosporales/ Bambusicolaceae	[103]
<i>Bambusicola loculata</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Bambusicolaceae	[78]
<i>Bambusicola sichuanensis</i>	<i>Phyllostachys heteroclada</i>	Living branches	Sichuan	Dothideomycetes/ Pleosporales/ Bambusicolaceae	[26]
<i>Bambusicola splendida</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Bambusicolaceae	[78]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Bambusicola subthailandica</i>	<i>Phyllostachys heteroclada</i>	Living leaves	Sichuan	Dothideomycetes/ Pleosporales/ Bambusicolaceae	[26]
<i>Bambusicola thailandica</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Bambusicolaceae	[78]
<i>Berkleasmium concinnum</i>	<i>Bambusa</i> sp.	Leaves	Hong Kong	Dothideomycetes/ Tubeufiales/ Tubeufiaceae	[63]
<i>Berkleasmium phyllostachydis</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Dothideomycetes/ Tubeufiales/ Tubeufiaceae	[68]
<i>Bertia</i> sp.	<i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes/ Coronophorales/ Bertiaceae	[63]
<i>Bifusispora sichuanensis</i>	<i>Phyllostachys edulis</i> ,	Dead leaves	Sichuan	Sordariomycetes/ Magnaporthales/ Magnaporthaceae	[83]
<i>Bipolaris cynodontis</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Pleosporaceae	[69]
<i>Botryobambusa guizhouensis</i>	Bamboo	N/A	Guizhou	Dothideomycetes/Dothideomycetes/ Botryosphaeriaceae	[104]
<i>Brachysporiella gayana</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Dothideomycetes/ Kirschsteinioteliales genera, <i>incertae sedis</i>	[63]
<i>Brachysporiella gayana</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomycetes/ Kirschsteinioteliales genera, <i>incertae sedis</i>	[69]
<i>Brachysporiella pulchra</i>	<i>Phyllostachys edulis</i>	N/A	Taiwan	Dothideomycetes/ Kirschsteinioteliales genera, <i>incertae sedis</i>	[74]
<i>Byssosphaeria jamaicana</i>	<i>Bambusa</i> sp.	Culms	Taiwan	Dothideomycetes/ Pleosporales/ Melanommataceae	[105]
<i>Calonectria ciliata</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Nectriaceae	[69]
<i>Canalisporium caribense</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Savoryellales/ Savoryellaceae	[63]
<i>Capnophaeum ischurochloae</i>	<i>Bambusa blumeana</i>	Leaves	Taiwan	Dothideomycetes/ Capnodiales/ Capnodiaceae	[72]
<i>Cataractispora receptaculorum</i>	Bamboo	N/A	Hong Kong	Sordariomycetes/ Annulatascales/ Annulatasceae	[106]
<i>Ceratosphaeria phyllostachydis</i>	<i>Phyllostachys</i> sp.	N/A	Anhui, Fujian, Hubei, Jiangsu, Jiangxi, Zhejiang	Sordariomycetes/ Magnaporthales/ Ceratosphaeriaceae	[73]
<i>Ceratosphaeria silva-nigra</i>	Bamboo	Dead culms	Sichuan	Sordariomycetes/ Magnaporthales/ Ceratosphaeriaceae	[52]
<i>Ceratosporium fuscescens</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Cercophora costaricensis</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Sordariales/ Neoschizotheciaceae	[63]
<i>Cercospora dendrocalami</i>	<i>Dendrocalamus latiflorus</i>	N/A	Taiwan	Dothideomycetes/ Capnodiales/ Mycosphaerellaceae	[72]
<i>Ceriosporopsis halima</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Microascales/ Halosphaeriaceae	[63]
<i>Chaetomium globosum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Sordariales/ Chaetomiaceae	[63]
<i>Chaetomium globosum</i>	<i>Bambusa tuldoidea</i>	Leaves	Hong Kong	Sordariomycetes/ Sordariales/ Chaetomiaceae	[63]
<i>Chaetosphaeria macrospora</i>	Bamboo	Dead culms	Taiwan	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[52]
<i>Chaetosphaeria macrospora</i>	<i>Bambusa multiplex</i>	N/A	Taiwan	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[54]
<i>Chaetosphaeria stenostachyae</i>	<i>Bambusa blumeana</i>	N/A	Taiwan	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[52]
<i>Chaetothyrium echinulatum</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Eurotiomycetes/Chaetothyriales/ Chaetothyriaceae	[52]
<i>Chaetothyrium javanicum</i>	<i>Bambusa dolichoclada</i> , <i>Dendrocalamus latiflorus</i> , <i>Phyllostachys makinoi</i>	N/A	Taiwan	Eurotiomycetes/ Chaetothyriales/ Chaetothyriaceae	[52]
<i>Chaetothyrium javanicum</i>	<i>Dendrocalamus latiflorus</i>	N/A	Taiwan	Eurotiomycetes/ Chaetothyriales/ Chaetothyriaceae	[72]
<i>Chaetothyrium spinigerum</i>	<i>Bambusa dolichoclada</i> , <i>Bambusa oldhamii</i> , <i>Dendrocalamus latiflorus</i> , <i>Phyllostachys makinoi</i>	N/A	Taiwan	Eurotiomycetes/ Chaetothyriales/ Chaetothyriaceae	[52]
<i>Circinotrichum maculiforme</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Xylariales/ Xylariaceae	[78]
<i>Cladophialophora chaetospira</i>	<i>Phyllostachys reticulata</i>	N/A	Yunnan	Eurotiomycetes/ Chaetothyriales/ Herpotrichiellaceae	[107]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Cladosporium anthropophilum</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Capnodiales/ Cladosporiaceae	[78]
<i>Cladosporium cladosporioides</i>	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Dothideomycetes/ Capnodiales/ Cladosporiaceae	[63]
<i>Cladosporium cladosporioides</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Dothideomycetes/ Capnodiales/ Cladosporiaceae	[63]
<i>Cladosporium crousii</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Capnodiales/ Cladosporiaceae	[78]
<i>Cladosporium herbarum</i>	<i>Bambusa</i> sp.	Culms	Guangxi	Dothideomycetes/ Capnodiales/ Cladosporiaceae	[108]
<i>Cladosporium herbarum</i>	<i>Phyllostachys edulis</i>	N/A	China	Dothideomycetes/ Capnodiales/ Cladosporiaceae	[109]
<i>Cladosporium perangustum</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Capnodiales/ Cladosporiaceae	[78]
<i>Claviformispora phyllostachydis</i>	<i>Phyllostachys heteroclada</i>	Dead branches	Sichuan	Sordariomycetes/ Chaetosphaeriales/ Linocarpaceae	[40]
<i>Clonostachys rosea</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Bionectriaceae	[69]
<i>Clonostachys parva</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Hypocreales/ Bionectriaceae	[78]
<i>Cocodiella arundinariae</i>	<i>Arundinaria</i> sp.	N/A	China	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[110]
<i>Cocodiella arundinariae</i>	<i>Dendrocalamus latiflorus</i>	N/A	Taiwan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[77]
<i>Cocodiella arundinariae</i>	<i>Phyllostachys</i> sp.	N/A	Anhui, Guangxi, Jiangsu, Sichuan, Zhejiang	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Cocodiella arundinariae</i>	<i>Semiarundinaria densiflora</i>	N/A	Zhejiang	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[73]
<i>Coccoidea sinobambusae</i>	<i>Gelidocalamus kunishii</i>	Leaves	Taiwan	Dothideomycetes/ Capnodiales/ Coccoideaceae	[72]
<i>Cocostromopsis bambusae</i>	<i>Bambusa</i> sp.	Leaves	Taiwan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[54]
<i>Codinaea terminalis</i>	Bamboo	Dead culms	Guizhou	Sordariomycetes/ Chaetosphaeriales/ Chaetosphaeriaceae	[111]
<i>Colletotrichum bambusicola</i>	<i>Phyllostachys aureosulcata</i> cv. <i>Spectabilis</i>	Leaves and leaf sheaths	Beijing	Sordariomycetes/ Glomerellales/ Glomerellaceae	[112]
<i>Colletotrichum bambusicola</i>	<i>Phyllostachys edulis</i>	Seeds	Guangxi	Sordariomycetes/ Glomerellales/ Glomerellaceae	[112]
<i>Colletotrichum bambusicola</i>	<i>Phyllostachys sulphurea</i> var. <i>viridis</i>	Twigs	Anhui	Sordariomycetes/ Glomerellales/ Glomerellaceae	[112]
<i>Colletotrichum guangxiense</i>	<i>Phyllostachys edulis</i>	Seeds	Guangxi	Sordariomycetes/ Glomerellales/ Glomerellaceae	[112]
<i>Colletotrichum metake</i>	<i>Chimonobambusa</i> <i>quadrangularis</i>	Seeds	Guizhou	Sordariomycetes/ Glomerellales/ Glomerellaceae	[112]
<i>Colletotrichum septorioides</i>	<i>Bambusa vulgaris</i>	N/A	Guangxi, Sichuan	Sordariomycetes/ Glomerellales/ Glomerellaceae	[52]
<i>Colletotrichum septorioides</i>	<i>Bambusa vulgaris</i>	N/A	Guangdong	Sordariomycetes/ Glomerellales/ Glomerellaceae	[73]
<i>Colletotrichum spaethianum</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Glomerellales/ Glomerellaceae	[78]
<i>Collodiscula bambusae</i>	Bamboo	Culms	Guizhou	Sordariomycetes/ Xylariales/ Xylariaceae	[113]
<i>Collodiscula fangjingshanensis</i>	Bamboo	Culms	Guizhou	Sordariomycetes/ Xylariales/ Xylariaceae	[114]
<i>Collodiscula japonica</i>	<i>Phyllostachys edulis</i>	Culms	Taiwan	Sordariomycetes/ Xylariales/ Xylariaceae	[97]
<i>Collodiscula japonica</i>	<i>Phyllostachys</i> sp.	Dead culms	Zhejiang	Sordariomycetes/ Xylariales/ Xylariaceae	[115]
<i>Collodiscula leigongshanensis</i>	Bamboo	Culms	Guizhou	Sordariomycetes/ Xylariales/ Xylariaceae	[114]
<i>Collodiscula tubulosa</i>	Bamboo	N/A	Guizhou	Sordariomycetes/ Xylariales/ Xylariaceae	[39]
<i>Coniochaeta velutina</i>	<i>Phyllostachys viridis</i>	Living leaves	Guangdong	Sordariomycetes/ Coniochaetales/ Coniochaetaceae	[116]
<i>Conioscypha bambusicola</i>	<i>Phyllostachys edulis</i> , <i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Conioscyphales/ Conioscyphaceae	[69]
<i>Conioscypha lignicola</i>	<i>Phyllostachys edulis</i>	N/A	Taiwan	Sordariomycetes/ Conioscyphales/ Conioscyphaceae	[117]
<i>Coniosporium saccardoanum</i>	<i>Phyllostachys</i> sp.	N/A	Guangxi, Hunan, Jiangsu	Dothideomycetes genera, <i>incertae sedis</i>	[52]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Coniosporium saccardoanum</i>	<i>Phyllostachys reticulata</i>	N/A	Henan	Dothideomycetes genera, <i>incertae sedis</i>	[73]
<i>Coniothyrium bambusicola</i>	<i>Bambusa</i> sp.	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Coniothyriaceae	[72]
<i>Cordana uniseptata</i>	<i>Phyllostachys reticulata</i>	Decaying culms	Yunnan	Sordariomycetes/ Coniochaetales/ Cordanaceae	[118]
<i>Cordella</i> sp.	<i>Bambusa vulgaris</i>	Leaves	Hong Kong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[63]
<i>Cordyceps militaris</i>	Bamboo	N/A	Yunnan	Sordariomycetes, Hypocreales, Cordycipitaceae	[78]
<i>Corollospora maritima</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Microascales/ Halosphaeriaceae	[63]
<i>Coronospora dendrocalami</i>	<i>Phyllostachys edulis</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Corynespora cassiicola</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Corynesporascaceae	[63]
<i>Corynespora phyllostachyae</i>	<i>Phyllostachys sulphurea</i>	Dead branches	Guangxi	Dothideomycetes/ Pleosporales/ Corynesporascaceae	[119]
<i>Cryptophiale sphaerospora</i>	<i>Schizostachyum dumetorum</i>	Dead culms	Hong Kong	Sordariomycetes/ Chaetosphaeriales/ Chaetosphaeriaceae	[63]
<i>Curvularia lunata</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Pleosporaceae	[63]
<i>Curvularia pallescens</i>	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Dothideomycetes/ Pleosporales/ Pleosporaceae	[63]
<i>Cylindrocarpon bambusicola</i>	<i>Phyllostachys edulis</i>	Rotten culms	Taiwan	Sordariomycetes/ Hypocreales/ Nectriaceae	[74]
<i>Cylindrocarpon fusiforme</i>	<i>Bambusa multiplex</i>	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Nectriaceae	[74]
<i>Cyphellophora musae</i>	<i>Sinobambusa tootsik</i>	Twigs	Guangdong	Eurotiomycetes/ Chaetothyriales/ Cyphellophoraceae	[120]
<i>Cyphellophora phyllostachydis</i>	<i>Phyllostachys edulis</i>	Twigs	Hainan	Eurotiomycetes/ Chaetothyriales/ Cyphellophoraceae	[120]
<i>Cyphellophora sessilis</i>	<i>Phyllostachys meyeri</i> , <i>Yushania falcataiurita</i>	N/A	Hubei	Eurotiomycetes/ Chaetothyriales/ Cyphellophoraceae	[121]
<i>Cyphellophora taiwanensis</i>	<i>Phyllostachys edulis</i>	Rotten culms	Taiwan	Eurotiomycetes/ Chaetothyriales/ Cyphellophoraceae	[74]
<i>Dactylaria fusiformis</i>	<i>Bambusa multiplex</i>	N/A	Taiwan	Leotiomyces/ Helotiales/ Calloriaceae	[74]
<i>Dactylaria triseptata</i>	<i>Bambusa</i> sp., <i>Bambusa tuldooides</i> , <i>Dendrocalamus</i> sp.	Culms or leaves	Hong Kong	Leotiomyces/ Helotiales/ Calloriaceae	[63]
<i>Dendrographium bambusae</i>	<i>Bambusa oldhamii</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[72]
<i>Dendryphion vinosum</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Torulaceae	[69]
<i>Dialonectria ullevolea</i>	<i>Phyllostachys</i> sp.	N/A	Jiangsu	Sordariomycetes/ Hypocreales/ Nectriaceae	[52]
<i>Diaporthe novem</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Diaporthales/ Diaporthaceae	[78]
<i>Diatrype phaselinoides</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Xylariales/ Diatrypaceae	[78]
<i>Dichaenopsis ischurochloae</i>	<i>Bambusa blumeana</i>	Dead twigs	Taiwan	Dothideomycetes/ Pleosporales/ Phaeosphaeriaceae	[72]
<i>Dictyochoeta taiwanensis</i>	<i>Bambusa multiplex</i>	Rotten culms	Taiwan	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[74]
<i>Dictyosporium elegans</i>	<i>Bambusa</i> sp.	N/A	Hong Kong	Dothideomycetes/ Pleosporales/ Dictyosporiaceae	[63]
<i>Dictyosporium triseriale</i>	<i>Phyllostachys</i> sp.	Dead culms	Taiwan	Dothideomycetes/ Pleosporales/ Dictyosporiaceae	[69]
<i>Didymella maculosa</i>	Bamboo	Dead culms	Hunan, Guangxi, Jiangsu, Sichuan, Yunnan	Dothideomycetes/ Pleosporales/ Didymellaceae	[52]
<i>Didymobotryum kusanoi</i>	Bamboo	Rotten culms	Fujian, Guizhou, Jiangsu, Jiangxi	Sordariomycetes/ Xylariales/ Vamsapriyaceae	[52]
<i>Didymobotryum rigidum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Xylariales/ Vamsapriyaceae	[63]
<i>Didymobotryum verrucosum</i>	<i>Pseudosasa hindsii</i>	Culms	Hong Kong	Sordariomycetes/ Xylariales/ Vamsapriyaceae	[63]
<i>Didymosphaeria bambusicola</i>	Bamboo	Dead culms	Guangdong, Guangxi, Hunan	Dothideomycetes/ Pleosporales/ Didymosphaeriaceae	[52]
<i>Didymosphaeria infossa</i>	Bamboo	Rotten culms	Guangdong, Guangxi	Dothideomycetes/ Pleosporales/ Didymosphaeriaceae	[52]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Didymosphaeria schizostachyi</i>	Bamboo	Rotten culms	Jiangsu	Dothideomycetes/ Pleosporales/ Didymosphaeriaceae	[52]
<i>Dimeriella dendrocalami</i>	<i>Dendrocalamus latiflorus</i>	Leaves	Taiwan	Dothideomycetes/ Venturiales/ Venturiaceae	[52,54,73]
<i>Dimerina bambusicola</i>	Bamboo	Leaves	Jiangxi	Dothideomycetes families, <i>incertae sedis</i> / Pseudoperisporiaceae	[52]
<i>Dinemasporium microsporium</i>	Bamboo	Rotten culms	Jiangsu	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[52]
<i>Diplozythiella bambusina</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]
<i>Distoseptispora bambusae</i>	Bamboo	Culms	Guizhou	Sordariomycetes/Distoseptisporales/ Distoseptisporaceae	[37]
<i>Distoseptispora bambusae</i>	Bamboo	N/A	Yunnan	Sordariomycetes/Distoseptisporales/ Distoseptisporaceae	[78]
<i>Drechslerella heterospora</i>	<i>Bambusa multiplex</i>	N/A	Taiwan	Orbiliomycetes/Orbiliales/ Orbiliaceae	[74]
<i>Dualomyces bambusicola</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Ellisembia bambusae</i>	<i>Bambusa</i> sp.	N/A	Taiwan	Sordariomycetes genera, <i>incertae sedis</i>	[122]
<i>Ellisembia bambusicola</i>	<i>Indocalamus sinicus</i> , <i>Pseudosasa hindsii</i>	Dead culms	Hong Kong	Sordariomycetes genera, <i>incertae sedis</i>	[123]
<i>Ellisembia minigelatinosa</i>	<i>Phyllostachys edulis</i> , <i>Phyllostachys makinoides</i>	N/A	Taiwan	Sordariomycetes genera, <i>incertae sedis</i>	[69]
<i>Ellisembia pseudoseptata</i>	<i>Phyllostachys heteroclada</i>	Dead culms	Yunnan	Sordariomycetes genera, <i>incertae sedis</i>	[123]
<i>Ellisembia vaginata</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes genera, <i>incertae sedis</i>	[63]
<i>Embryonispora bambusicola</i>	Bamboo	Dead culms	Zhejiang	Ascomycota genera, <i>incertae sedis</i>	[124]
<i>Endophragmia ovoidea</i>	<i>Phyllostachys edulis</i>	Rotten culms	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Endophragmiella oblonga</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Chaetosphaeriales/ Helminthosphaeriaceae	[63]
<i>Endophragmiella theobromae</i>	<i>Dendrocalamus giganteus</i>	Dead branches	Fujian	Sordariomycetes/Chaetosphaeriales/ Helminthosphaeriaceae	[125]
<i>Endothiella singularis</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Diaporthales/ Cryphonectriaceae	[63]
<i>Engleromyces goetzei</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/ Xylariales/ Xylariaceae	[52]
<i>Engleromyces sinensis</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Xylariales/ Xylariaceae	[78]
<i>Epicoccum nigrum</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Didymellaceae	[69]
<i>Epicoccum nigrum</i>	<i>Sasa nipponica</i>	Dead leaves	Yunnan	Dothideomycetes/ Pleosporales/ Didymellaceae	[12]
<i>Eutypa kusanoi</i>	<i>Bambusa</i> sp.	Culms	Taiwan	Sordariomycetes/ Xylariales/ Diatrypaceae	[52]
<i>Eutypella bambusina</i>	Bamboo	Culms	Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hunan, Jiangsu, Yunnan, Zhejiang	Sordariomycetes/ Xylariales/ Diatrypaceae	[52]
<i>Exserticlava triseptata</i>	<i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[63]
<i>Exserticlava vasiformis</i>	<i>Bambusa</i> sp., <i>Bambusa tuldooides</i>	Culms	Hong Kong	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[63]
<i>Exserticlava vasiformis</i>	<i>Phyllostachys makinoides</i>	N/A	Taiwan	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[69]
<i>Fenestella bambusicola</i>	Bamboo	Dead culms	Zhejiang	Dothideomycetes/Pleosporales/ Cucurbitariaceae	[52]
<i>Fissuroma fissuristomum</i>	<i>Oligostachyum shiuyingianum</i>	Dead culms	Hong Kong	Dothideomycetes/Pleosporales/ Aigialaceae	[102]
<i>Fissuroma maculans</i>	<i>Bambusa chungii</i>	Dead culms	Hong Kong	Dothideomycetes/Pleosporales/ Aigialaceae	[102]
<i>Fumago</i> sp.	<i>Fargesia nitida</i>	N/A	China	Ascomycota genera, <i>incertae sedis</i>	[126]
<i>Fusarium bambusae</i>	Bamboo	Culms	Anhui, Guangdong, Jiangsu, Zhejiang	Sordariomycetes/ Hypocreales/ Nectriaceae	[52]
<i>Fusarium bambusicola</i>	<i>Bambusa emeiensis</i>	N/A	Sichuan	Sordariomycetes/ Hypocreales/ Nectriaceae	[52]
<i>Fusarium fujikuroi</i>	<i>Bambusa textilis</i>	N/A	Guangdong, Guangxi	Sordariomycetes/ Hypocreales/ Nectriaceae	[73]
<i>Fusarium fujikuroi</i>	<i>Phyllostachys edulis</i>	N/A	Anhui, Jiangsu, Zhejiang	Sordariomycetes/ Hypocreales/ Nectriaceae	[73]
<i>Fusarium incarnatum</i>	<i>Bambusa multiplex</i>	Culms	Shanghai	Sordariomycetes/ Hypocreales/ Nectriaceae	[127]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Fusarium incarnatum</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Nectriaceae	[69]
<i>Fusarium proliferatum</i>	<i>Bambusa pervariabilis</i> × <i>Dendrocalamopsis grandis</i>	Root	Sichuan	Sordariomycetes/ Hypocreales/ Nectriaceae	[128]
<i>Fusarium roseum</i>	Bamboo	Culms	Fujian, Guangxi, Hunan	Sordariomycetes/ Hypocreales/ Nectriaceae	[52]
<i>Fusarium solani</i>	<i>Phyllostachys sulphurea</i> var. <i>viridis</i>	N/A	Jiangsu	Sordariomycetes/ Hypocreales/ Nectriaceae	[73]
<i>Fusarium</i> sp.	<i>Bambusa tuldooides</i>	Culms or leaves	Hong Kong	Sordariomycetes/ Hypocreales/ Nectriaceae	[63]
<i>Fusarium</i> sp.	<i>Phyllostachys edulis</i>	N/A	Hunan, Sichuan	Sordariomycetes/ Hypocreales/ Nectriaceae	[73]
<i>Gibberella bambusae</i>	Bamboo	Culms	Anhui, Zhejiang	Sordariomycetes/ Hypocreales/ Nectriaceae	[129]
<i>Gilmaniella bambusae</i>	<i>Bambusa tuldooides</i>	Dead culms	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]
<i>Gilmaniella humicola</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Globoramichloridium indicum</i>	<i>Pseudosasa hindsii</i>	Culms	Hong Kong	Dothideomycetes/ Capnodiales/ Dissoconiaceae	[63]
<i>Gloniella araucana</i>	Bamboo	Rotten culms	Anhui, Hunan	Dothideomycetes/ Hysteriales/ Hysteriaceae	[52]
<i>Gracilistibella bambusae</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Hypocreales/ Bionectriaceae	[63]
<i>Gregarithecium curvisporum</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Dictyosporiaceae	[78]
<i>Hadrotrichum caespitosum</i>	<i>Bambusa</i> sp.	Dead leaves	Fujian	Dothideomycetes/ Dothideales/ Dothideaceae	[52]
<i>Halosphaeriopsis mediosetigera</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Microascales/ Halosphaeriaceae	[63]
<i>Haplobasidium lelebae</i>	<i>Bambusa</i> sp.	Leaves	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[130]
<i>Helicomycetes roseus</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomycetes/ Tubeufiales/ Tubeufiaceae	[69]
<i>Helminthosporium bambusicola</i>	Bamboo	Culms	Sichuan	Dothideomycetes/ Pleosporales/ Massarinaceae	[131]
<i>Heteroepichloe bambusae</i>	<i>Phyllostachys</i> sp.	N/A	Guizhou, Zhejiang	Sordariomycetes/ Hypocreales/ Clavicipitaceae	[52]
<i>Humicola grisea</i> var. <i>grisea</i>	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Sordariomycetes/ Sordariales/ Chaetomiaceae	[63]
<i>Hydropisphaera fusigera</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes/ Hypocreales/ Bionectriaceae	[63]
<i>Hydropisphaera fusigera</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Bionectriaceae	[69]
<i>Hypoxylon delonicis</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Xylariales/ Hypoxylaceae	[78]
<i>Hypoxylon deustum</i>	Bamboo	Culms	Anhui, Fujian, Guangdong, Guangxi, Hunan, Jiangsu, Jiangxi, Shaanxi, Taiwan, Yunnan Zhejiang	Sordariomycetes/ Xylariales/ Hypoxylaceae	[52]
<i>Hypoxylon fuscopurpureum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Xylariales/ Hypoxylaceae	[63]
<i>Hypoxylon pilgerianum</i>	<i>Dendrocalamus latiflorus</i>	Culms	Taiwan	Sordariomycetes/ Xylariales/ Hypoxylaceae	[97]
<i>Hypoxylon rubiginosum</i>	Bamboo	Rotten culms	Anhui, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hebei, Hunan, Inner Mongolia, Jiangsu, Jiangxi, Jilin, Qinghai, Shaanxi, Shanxi, Sichuan, Yunnan, Zhejiang	Sordariomycetes/ Xylariales/ Hypoxylaceae	[52]
<i>Hypoxylon sublimbatum</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Xylariales/ Hypoxylaceae	[78]
<i>Hypoxylon sublimbatum</i>	<i>Yushania niitakayamensis</i>	Culms	Taiwan	Sordariomycetes/ Xylariales/ Hypoxylaceae	[97]
<i>Hysterobrevium smilacis</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Hysteriales/ Hysteriaceae	[78]
<i>Janetia synnematosia</i>	<i>Schizostachyum dumetorum</i>	Culms	Hong Kong	Dothideomycetes/ Capnodiales/ Mycosphaerellaceae	[63]
<i>Junewangia globulosa</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes families, <i>incertae sedis</i> / Junewangiaceae	[63]

(to be continued)

Bambusicolous Ascomycota in China

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Juxtiphoma eupyrena</i>	<i>Bambusa tuldooides</i>	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ <i>Didymellaceae</i>	[63]
<i>Keissleriella bambusicola</i>	Bamboo	Dead branches	Yunnan	Dothideomycetes/ Pleosporales/Lentitheciaceae	[19]
<i>Keissleriella taminensis</i>	<i>Bambusa</i> sp.	Culms	Taiwan	Dothideomycetes/ Pleosporales/ Lentitheciaceae	[132]
<i>Kellermania taiwanensis</i>	<i>Bambusa</i> sp.	N/A	Taiwan	Dothideomycetes/ Botryosphaerales/ Planistromellaceae	[133]
<i>Konradia bambusina</i>	<i>Bambusa</i> sp.	Culms	Fujian, Guangdong, Guangxi	Sordariomycetes/ Hypocreales/ Clavicipitaceae	[52]
<i>Lasiosphaeria bambusicola</i>	Bamboo	Rotten culms	Hunan, Yunnan, Zhejiang	Sordariomycetes/ Sordariales/ Lasiosphaeriaceae	[52]
<i>Lasmenia balansae</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Diaporthales/ Apharknessiaceae	[63]
<i>Lasmenia phyllostachydis</i>	<i>Dendrocalamus latiflorus</i> , <i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Diaporthales/ Apharknessiaceae	[72]
<i>Lateriramulosa a-inflata</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Leptosphaeria australiensis</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Leptosphaeriaceae	[63]
<i>Leptosphaeria bambusae</i>	Bamboo	Dead culms	Hunan	Dothideomycetes/ Pleosporales/ Leptosphaeriaceae	[52]
<i>Leptosphaeria bambusicola</i>	<i>Bambusa</i> sp.	Decaying culms	Zhejiang	Dothideomycetes/ Pleosporales/ Leptosphaeriaceae	[134]
<i>Leptosphaeria eumorpha</i>	<i>Bambusa</i> sp.	N/A	Guangdong	Dothideomycetes/ Pleosporales/ Leptosphaeriaceae	[52]
<i>Leptosphaeria modesta</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Leptosphaeriaceae	[78]
<i>Leptosphaeria tigrisoides</i>	Bamboo	Dead culms	Jiangsu, Shaanxi, Zhejiang	Dothideomycetes/ Pleosporales/ Leptosphaeriaceae	[52]
<i>Leptostroma macrosporium</i>	<i>Sasa</i> sp.	N/A	Fujian	Leotiomycetes/ Rhytismatales/ Rhytismataceae	[52]
<i>Leptothyrium dendrocalami</i>	<i>Dendrocalamus latiflorus</i>	Leaves	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[72]
<i>Letendraea helminthicola</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Didymosphaeriaceae	[78]
<i>Leulisineae bambusicola</i>	<i>Phyllostachys edulis</i>	Rotten culms	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[135]
<i>Lignincola laevis</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Microascales/ Halosphaeriaceae	[63]
<i>Linocarpon arengae</i>	Bamboo	N/A	Yunnan	Sordariomycetes / Chaetosphaerales/ Linocarpaceae,	[78]
<i>Linochora howardii</i>	<i>Bambusa multiplex</i>	Leaves	Guangdong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Loculistroma bambusae</i>	<i>Phyllostachys</i> sp.	N/A	Hubei	Sordariomycetes/ Hypocreales/ Clavicipitaceae	[52]
<i>Longipedicellata aptrootii</i>	Bamboo	N/A	Hong Kong	Dothideomycetes/ Pleosporales/ Longipedicellataceae	[136]
<i>Lophiostoma compressum</i>	<i>Bambusa</i> sp.	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales/ Lophiostomataceae	[63]
<i>Lophiostoma desmonci</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Lophiostomataceae	[63]
<i>Lophiotrema neorundinariae</i>	Bamboo	Dead culms	Guangdong	Dothideomycetes/ Pleosporales/ Lophiostomataceae	[52]
<i>Macrophoma dendrocalami</i>	<i>Dendrocalamus latiflorus</i>	N/A	Taiwan	Dothideomycetes/Botryosphaerales/ Botryosphaeriaceae	[72]
<i>Macrophoma ischurochloae</i>	<i>Bambusa blumeana</i>	N/A	Taiwan	Dothideomycetes/Botryosphaerales/ Botryosphaeriaceae	[72]
<i>Melanconium dendrocalami</i>	<i>Bambusa blumeana</i>	N/A	Taiwan	Sordariomycetes/Diaporthales/ Melanconidaceae	[72]
<i>Melanconium dendrocalami</i>	<i>Bambusa</i> sp.	Dead leaves	Taiwan	Sordariomycetes/Diaporthales/ Melanconidaceae	[52]
<i>Melanochaeta aotearoae</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Chaetosphaerales/ Chaetosphaeriaceae	[63]
<i>Melanochaeta aotearoae</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/Chaetosphaerales/ Chaetosphaeriaceae	[69]
<i>Melanographium phoenicis</i>	Bamboo	N/A	Yunnan	Ascomycota genera, <i>incertae sedis</i>	[78]
<i>Melanomma subdispersum</i>	<i>Bambusa</i> sp.	N/A	Taiwan	Dothideomycetes/Pleosporales/ Melanommataceae	[68]
<i>Melanospora chrysomella</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Melanosporales/ Ceratostomataceae	[63]
<i>Melchioria tengii</i>	Bamboo	Culms	Sichuan	Sordariomycetes/ Hypocreales/ Niessliaceae	[52]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Meliola acristae</i>	<i>Phyllostachys</i> sp.	N/A	Zhejiang	Sordariomycetes/ Meliolales/ Meliolaceae	[52]
<i>Meliola atalantiae</i>	<i>Bambusa</i> sp.	N/A	Guangdong	Sordariomycetes/ Meliolales/ Meliolaceae	[52]
<i>Meliola bambusae</i>	<i>Bambusa</i> sp., <i>Pleioblastus cantori</i>	N/A	Guangdong	Sordariomycetes/ Meliolales/ Meliolaceae	[52]
<i>Meliola bambusae</i>	<i>Pleioblastus amarus</i>	N/A	China	Sordariomycetes/ Meliolales/ Meliolaceae	[137]
<i>Meliola furcata</i>	<i>Phyllostachys</i> sp.	N/A	China	Sordariomycetes/ Meliolales/ Meliolaceae	[138]
<i>Meliola phyllostachydis</i>	<i>Phyllostachys edulis</i>	N/A	Hunan	Sordariomycetes/ Meliolales/ Meliolaceae	[73]
<i>Meliola phyllostachydis</i>	<i>Phyllostachys edulis</i> , <i>Phyllostachys makinoi</i> , <i>Pseudosasa japonica</i>	N/A	Taiwan	Sordariomycetes/ Meliolales/ Meliolaceae	[52]
<i>Meliola phyllostachydis</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Meliolales/ Meliolaceae	[73]
<i>Meliola pseudosasa</i>	<i>Sasa borealis</i>	Living leaves	Yunnan	Sordariomycetes/ Meliolales/ Meliolaceae	[139]
<i>Melioliphila balanseana</i>	<i>Phyllostachys</i> sp.	N/A	China	Dothideomycetes genera, <i>incertae sedis</i>	[140]
<i>Mendogia yunnanensis</i>	Bamboo	Living culms	Yunnan	Dothideomycetes/ Myriangiales/ Myriangiaceae	[33]
<i>Metasphaeria denata</i>	<i>Phyllostachys</i> sp.	N/A	Zhejiang	Dothideomycetes/ Dothideales/ Sacrotheciaceae	[52]
<i>Metasphaeria deviata</i>	<i>Phyllostachys</i> sp.	N/A	Zhejiang	Dothideomycetes/ Dothideales/ Sacrotheciaceae	[52]
<i>Metasphaeria fusariispora</i>	<i>Phyllostachys sulphurea</i> var. <i>viridis</i>	N/A	Hunan	Dothideomycetes/ Dothideales/ Sacrotheciaceae	[52]
<i>Microthyrium</i> sp.	<i>Dendrocalamus</i> sp.	Culms	Hong Kong	Dothideomycetes/ Microthyriales/ Microthyriaceae	[63]
<i>Mirandina dactylelloides</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Mirandina flagelliformis</i>	<i>Bambusa multiplex</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[74]
<i>Mirandina typica</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[69]
<i>Miyakeomyces bambusae</i>	<i>Phyllostachys</i> sp.	N/A	Guizhou, Jiangsu, Liaoning	Sordariomycetes/ Hypocreales/ Niessliaceae	[52]
<i>Monodictys castaneae</i>	<i>Bambusa</i> sp.	Dead culms	Guangdong	Dothideomycetes genera, <i>incertae sedis</i>	[52]
<i>Monodictys levis</i>	<i>Bambusa</i> sp.	Decaying culms	Hong Kong	Dothideomycetes genera, <i>incertae sedis</i>	[63]
<i>Monodictys paradoxa</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes genera, <i>incertae sedis</i>	[63]
<i>Monodictys putredinis</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes genera, <i>incertae sedis</i>	[63]
<i>Muscillium theobromae</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Glomerellales/ Plectosphaerellaceae	[69]
<i>Mycocitrus phyllostachydis</i>	Bamboo	Culms	Jiangsu	Sordariomycetes/ Hypocreales/ Bionectriaceae	[52]
<i>Mycocitrus phyllostachydis</i>	<i>Phyllostachys</i> sp.	N/A	Henan	Sordariomycetes/ Hypocreales/ Bionectriaceae	[52]
<i>Mycosphaerella tassiana</i>	<i>Bambusa</i> sp.	N/A	Guangdong	Dothideomycetes/ Capnodiales/ Mycosphaerellaceae	[52]
<i>Myriangium haraeaeum</i>	<i>Bambusa multiplex</i>	N/A	Sichuan	Dothideomycetes/ Myriangiales/ Myriangiaceae	[52]
<i>Myriangium haraeaeum</i>	<i>Bambusa</i> sp.	N/A	Fujian	Dothideomycetes/ Myriangiales/ Myriangiaceae	[52]
<i>Myriangium haraeaeum</i>	<i>Phyllostachys glauca</i>	N/A	Henan, Hunan, Jiangsu, Zhejiang	Dothideomycetes/ Myriangiales/ Myriangiaceae	[73]
<i>Myriangium haraeaeum</i>	<i>Phyllostachys nigra</i> var. <i>henonis</i>	Leaf sheaths	Jiangsu	Dothideomycetes/ Myriangiales/ Myriangiaceae	[52]
<i>Myriangium haraeaeum</i>	<i>Phyllostachys reticulata</i>	N/A	Henan, Jiangsu	Dothideomycetes/ Myriangiales/ Myriangiaceae	[73]
<i>Myriangium haraeaeum</i>	<i>Phyllostachys</i> sp.	N/A	Hubei, Guizhou, Jiangsu, Sichuan, Zhejiang	Dothideomycetes/ Myriangiales/ Myriangiaceae	[52]
<i>Myriodiscus sparassoides</i>	Bamboo	Node of culms	Guangdong, Guangxi	Leotiomycetes/ Leotiales/ Tympanidaceae	[52]
<i>Myrmecridium schulzeri</i>	<i>Phyllostachys reticulata</i>	N/A	Taiwan	Sordariomycetes/ Myrmecridiales/ Myrmecridiaceae	[74]
<i>Nemania minutula</i>	Bamboo	Rotten culms	Guangdong	Sordariomycetes/ Xylariales/ Xylariaceae	[52]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Nemania nummularioides</i>	Bamboo	Culms	Guangdong	Sordariomycetes/ Xylariales/ Xylariaceae	[52]
<i>Neoscochyta triticicola</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Didymellaceae	[78]
<i>Neocapnodium tanakae</i>	<i>Bambusa dolichoclada</i> , <i>Bambusa oldhamii</i> , <i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomycetes/ Capnodiales/ Capnodiaceae	[52]
<i>Neodeightonia subglobosa</i>	Bamboo	N/A	Yunnan	Dothideomycetes Botryosphaeriales/ Botryosphaeriaceae	[78]
<i>Neokalmusia kunmingensis</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Didymosphaeriaceae	[30]
<i>Neokalmusia scabrispora</i>	Bamboo	Dead culms	Jiangsu, Zhejiang	Dothideomycetes/ Pleosporales/ Didymosphaeriaceae	[52]
<i>Neomassaria fabacearum</i>	Bamboo	N/A	Guizhou	Dothideomycetes/ Pleosporales/ Neomassariaceae	[141]
<i>Neomultiseptospora yunnanensis</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Parabambusicolaceae	[142]
<i>Neopodoconis ampullacea</i>	<i>Phyllostachys edulis</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[74]
<i>Neorousoella bambusae</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78,143]
<i>Neostagonosporella bambusicola</i>	Bamboo	Dead leaves	Guizhou	Dothideomycetes/ Pleosporales/ Phaeosphaeriaceae	[144]
<i>Neostagonosporella sichuanensis</i>	<i>Phyllostachys heteroclada</i>	Branches and culms	Sichuan	Dothideomycetes/ Pleosporales/ Phaeosphaeriaceae	[28]
<i>Nigrospora bambusae</i>	Bamboo	Leaves	Guangdong, Guangxi	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[145]
<i>Nigrospora oryzae</i>	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[63]
<i>Nigrospora oryzae</i>	<i>Phyllostachys nigra</i>	Living leaves	Shandong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[146]
<i>Nigrospora oryzae</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[69]
<i>Nigrospora osmanthi</i>	<i>Phyllostachys nigra</i>	Living leaves	Shandong	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[146]
<i>Occultibambusa bambusae</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[78]
<i>Occultibambusa chiangraiensis</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[78]
<i>Occultibambusa hongheensis</i>	Bamboo	Dead branches	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[49]
<i>Occultibambusa jonesii</i>	Bamboo	Dead culms	Guizhou	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[147]
<i>Occultibambusa kunmingensis</i>	Bamboo	Dead branches	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[49]
<i>Occultibambusa kunmingensis</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[29]
<i>Occultibambusa maolanensis</i>	Bamboo	Dead culms	Guizhou	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[147]
<i>Occultibambusa sichuanensis</i>	Bamboo	Dead branches	Sichuan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[103]
<i>Oceanitis unicaudata</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Microascales/ Halosphaeriaceae	[63]
<i>Oedocephalum glomerulosum</i>	<i>Phyllostachys</i> sp.	N/A	Guangdong	Pezizomycetes/ Pezizales genera, <i>incertae sedis</i>	[52]
<i>Ophioceras guttulatatum</i>	Bamboo	Decaying culms	Hong Kong	Sordariomycetes/ Magnaporthales/ Ophiocerales	[76]
<i>Ophioceras sichuanense</i>	Bamboo	Decaying branches	Sichuan	Sordariomycetes/ Magnaporthales/ Ophiocerales	[48]
<i>Orbilina cladodes</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Orbiliomycetes/Orbiliales/ Orbiliaceae	[69]
<i>Orbilina ellipsospora</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Orbiliomycetes/Orbiliales/ Orbiliaceae	[69]
<i>Orbilina oligospora</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Orbiliomycetes/ Orbiliales/ Orbiliaceae	[69]
<i>Oxydothis bambusicola</i>	<i>Indocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes/Xylariales/ xydothidaceae	[148]
<i>Oxydothis phoenicis</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Xylariales/ Oxydothidaceae	[78]
<i>Papularia bambusina</i>	<i>Bambusa</i> sp.	N/A	Fujian	Sordariomycetes/ Amphisphaeriales/ Apiosporaceae	[52]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Papulaspora sepedonioides</i>	Bamboo	Decaying culms	Yunnan	Sordariomycetes/ Coronophorales genera, <i>incertae sedis</i>	[76]
<i>Parabambusicola bambusina</i>	Bamboo	Dead culms	Sichuan	Dothideomycetes/ Pleosporales/ Parabambusicolaceae	[52]
<i>Parabambusicola bambusina</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Parabambusicolaceae	[78]
<i>Parabambusicola hongheensis</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Parabambusicolaceae	[142]
<i>Paragaeumannomyces guttulatus</i>	Bamboo	Dead culms	Guizhou	Sordariomycetes/ Chaetosphaeriales/ Chaetosphaeriaceae	[111]
<i>Parakarstenia phyllostachydis</i>	<i>Phyllostachys heteroclada</i>	Culms	Sichuan	Lecanoromycetes/ Ostropales/ Odontotremataceae	[24]
<i>Paralloneottiosporina sichuanensis</i>	<i>Phyllostachys violascens</i>	Dead leaves	Sichuan	Dothideomycetes/ Pleosporales/ Phaeosphaeriaceae	[83]
<i>Paramultiseptospora bambusae</i>	Bamboo	Dead stems	Yunnan	Dothideomycetes/ Pleosporales/ Parabambusicolaceae	[149]
<i>Paranthostomella phyllostachydis</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Xylariales/ Xylariaceae	[73]
<i>Pararousoella mukdahanensis</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[18]
<i>Pararousoella mukdahanensis</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78]
<i>Passalora aterrima</i>	Bamboo	Culms	Guangxi	Dothideomycetes/ Capnodiales/ Mycosphaerellaceae	[52]
<i>Payosphaeria minuta</i>	Bamboo	Decaying culms	Yunnan	Sordariomycetes/ Hypocreales/ Nectriaceae	[76]
<i>Periconia bambusina</i>	Bamboo	Rotten culms	Guangxi	Dothideomycetes/ Pleosporales/ Periconiaceae	[52]
<i>Periconia byssoides</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Periconiaceae	[69]
<i>Periconia cookei</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Periconiaceae	[69]
<i>Periconia elegans</i>	Bamboo	Culms	Guangdong, Guangxi, Jiangsu, Yunnan, Zhejiang	Dothideomycetes/ Pleosporales/ Periconiaceae	[52]
<i>Periconia minutissima</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Periconiaceae	[63]
<i>Periconia prolifica</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Periconiaceae	[63]
<i>Periconia</i> sp.	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Dothideomycetes/ Pleosporales/ Periconiaceae	[63]
<i>Pestalotiopsis</i> sp.	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Sordariomycetes/ Amphisphaeriales/ Sporocadaceae	[63]
<i>Phaeoacremonium inconspicuum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Togniniales/ Togniniaceae	[63]
<i>Phaeoisaria clematidis</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomycetes/ Pleurotheciales/ Pleurotheciaceae	[69]
<i>Phaeoisaria</i> sp.	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Pleurotheciales/ Pleurotheciaceae	[63]
<i>Phaeosphaeria bambusae</i>	<i>Bambusa</i> sp.	Leaves	Jiangsu	Dothideomycetes/ Pleosporales/ Phaeosphaeriaceae	[52]
<i>Phialemonium inflatum</i>	Bamboo	N/A	Yunnan	Sordariomycetes/ Cephalothecales/ Cephalothecaceae	[78]
<i>Phoma arundinacea</i>	<i>Bambusa emeiensis</i>	N/A	Sichuan	Dothideomycetes/ Pleosporales/ Didymellaceae	[52]
<i>Phomatospora dinemasporium</i>	<i>Phyllostachys</i> sp.	N/A	Jiangsu	Sordariomycetes/ Phomatosporales/ Phomatosporaceae	[52]
<i>Phomopsis</i> sp.	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Sordariomycetes/ Diaporthales/ Diaporthaceae	[63]
<i>Phragmocarpella fusispora</i>	<i>Phyllostachys</i> sp.	N/A	Guangdong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[73]
<i>Phragmocarpella japonica</i>	<i>Bambusa</i> sp.	N/A	Fujian	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora bambusae</i>	<i>Bambusa</i> sp.	Leaves	Guangdong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora dendrocalami</i>	<i>Dendrocalamus giganteus</i> , <i>Dendrocalamus latiflorus</i>	Living leaves	Yunnan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[150]
<i>Phyllachora dendrocalami-hamiltoniicola</i>	<i>Dendrocalamus hamiltonii</i> , <i>Dendrocalamus membranaceus</i>	N/A	Yunnan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[151]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Phyllachora eximia</i>	<i>Indocalamus sinicus</i>	Leaves	Hong Kong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[63]
<i>Phyllachora fuispora</i>	<i>Phyllostachys</i> sp.	Leaves	Guangdong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora heterocladae</i>	<i>Phyllostachys heteroclada</i>	Living branches and culms	Sichuan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[27]
<i>Phyllachora indocalami</i>	<i>Yushania niitakayamensis</i>	N/A	Taiwan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[72]
<i>Phyllachora lelebae</i>	<i>Bambusa pachinensis</i>	Leaves	Taiwan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora orbicula</i>	<i>Bambusa arundinaceae</i> , <i>Bambusa multiplex</i>	Leaves	Guangdong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora orbicula</i>	<i>Bambusa</i> sp.	Leaves	Jiangxi, Yunnan, Zhejiang	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora orbicula</i>	<i>Bambusa</i> sp.	N/A	Jiangxi, Yunnan, Zhejiang	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[73]
<i>Phyllachora orbicula</i>	<i>Bambusa vulgaris</i>	Leaves	Hong Kong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[63]
<i>Phyllachora orbicula</i>	<i>Phyllostachys</i> sp.	Leaves	Fujian, Yunnan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora orbicula</i>	<i>Pseudosasa japonica</i>	Leaves	Shandong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora pachinensis</i>	<i>Bambusa pachinensis</i>	N/A	Taiwan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[72]
<i>Phyllachora phyllostachydis</i>	<i>Phyllostachys glauca</i> , <i>Phyllostachys reticulata</i> , <i>Semiarundinaria densiflora</i> , <i>Fargesia nitida</i>	N/A	Zhejiang	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[73]
<i>Phyllachora phyllostachydis</i>	<i>Phyllostachys</i> sp.	Leaves	Zhejiang	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora shiraiana</i>	<i>Arundinaria</i> sp.	Leaves	Zhejiang	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora shiraiana</i>	<i>Bambusa blumeana</i>	Leaves	Taiwan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora shiraiana</i>	<i>Bambusa</i> sp.	Leaves	Fujian, Guangdong, Guizhou, Jiangsu	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora shiraiana</i>	<i>Bambusa</i> sp.	Leaves and sheaths	Hong Kong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[63]
<i>Phyllachora shiraiana</i>	<i>Phyllostachys reticulata</i>	N/A	Hunan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[73]
<i>Phyllachora shiraiana</i>	<i>Phyllostachys</i> sp.	Leaves	Guangdong, Sichuan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora shiraiana</i>	<i>Phyllostachys</i> sp.	N/A	Guizhou	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[73]
<i>Phyllachora sinensis</i>	<i>Bambusa arundinaceae</i>	Leaves	Guangdong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora sinensis</i>	<i>Bambusa beecheyana</i>	Leaves	Guangdong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora sinensis</i>	<i>Bambusa emeiensis</i> , <i>Phyllostachys reticulata</i>	Leaves	Sichuan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora sinensis</i>	<i>Bambusa pachinensis</i>	Leaves	Taiwan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora sinensis</i>	<i>Bambusa</i> sp.	Leaves	Fujian, Hunan, Guangdong, Jiangsu, Jiangxi, Sichuan, Yunnan, Zhejiang	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora sinensis</i>	<i>Dendrocalamus giganteus</i>	N/A	China	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[150]
<i>Phyllachora sinensis</i>	<i>Fargesia nitida</i>	N/A	Sichuan	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[73]
<i>Phyllachora tjangkorreh</i>	<i>Bambusa blumeana</i>	Leaves	Guangdong	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[52]
<i>Phyllachora yushaniae</i>	<i>Dendrocalamus giganteus</i> , <i>Dendrocalamus semiscandens</i>	N/A	China	Sordariomycetes/ Phyllachorales/ Phyllachoraceae	[150]
<i>Phyllosticta take</i>	<i>Bambusa emeiensis</i>	N/A	Sichuan	Dothideomycetes/ Botryosphaerales/ Phyllostictaceae	[52]
<i>Physalospora reinkingiana</i>	Bamboo	Culms	Fujian, Hunan, Guangdong, Guangxi	Sordariomycetes/ Xylariales/ Hyponectriaceae	[52]
<i>Physalospora reinkingiana</i>	<i>Bambusa vulgaris</i>	N/A	China	Sordariomycetes/ Xylariales/ Hyponectriaceae	[54]
<i>Pithomyces graminicola</i>	<i>Dendrocalamus</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[63]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Pithomyces graminicola</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[69]
<i>Pithomyces longipes</i>	<i>Bambusa ventricosa</i>	Leaves	Guangxi	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[152]
<i>Plectronidium sinense</i>	<i>Bambusa</i> sp.	Leaves	China	Ascomycota genera, <i>incertae sedis</i>	[133]
<i>Pleocyrtospora bambusae</i>	Bamboo	Rotten culms	Guangdong	Sordariomycetes genera, <i>incertae sedis</i>	[52]
<i>Pleurophragmium bitunicatum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes genera, <i>incertae sedis</i>	[63]
<i>Podosporium compactum</i>	Bamboo	Dead culms	Hunan, Jiangsu	Ascomycota genera, <i>incertae sedis</i>	[52]
<i>Podosporium elongatum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]
<i>Podosporium elongatum</i>	<i>Bambusa tuldooides</i> , <i>Dendrocalamus</i> sp.	Leaves	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]
<i>Podosporium minus</i>	<i>Bambusa</i> sp.	Dead culms	Guangdong	Ascomycota genera, <i>incertae sedis</i>	[52]
<i>Polyposphaeria fusca</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Tetraplosphaeriaceae	[101]
<i>Polyposphaeria fusca</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Tetraplosphaeriaceae	[78]
<i>Prosthemiella bambusina</i>	<i>Bambusa multiplex</i>	Leaves	Guangdong	Ascomycota genera, <i>incertae sedis</i>	[52]
<i>Pseudoacrodictys appendiculata</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]
<i>Pseudoanthostomella sepelibilis</i>	<i>Bambusa vulgaris</i> , <i>Dendrocalamus</i> sp.	Dead leaves	Hong Kong	Sordariomycetes/ Xylariales/ Xylariaceae	[63]
<i>Pseudocercospora bambusae</i>	<i>Dendrocalamus latiflorus</i>	Leaves	Taiwan	Dothideomycetes/ Capnodiales/ Mycosphaerellaceae	[153]
<i>Pseudodactylaria fusiformis</i>	Bamboo	Culms	Guizhou	Sordariomycetes/Pseudodactylariales/ Pseudodactylariaceae	[35]
<i>Pseudokeissleriella bambusicola</i>	Bamboo	Dead culms	Sichuan	Dothideomycetes/ Pleosporales/ Lentitheciaceae	[154]
<i>Pseudolachnea bubakii</i>	Bamboo	Rotten culms	Jiangsu	Sordariomycetes/ Chaetosphaeriales/ Chaetosphaeriaceae	[52]
<i>Pseudolachnea scolecospora</i>	<i>Phyllostachys</i> sp.	Culms	China	Sordariomycetes/ Chaetosphaeriales/ Chaetosphaeriaceae	[133]
<i>Pseudolachnella scolecospora</i>	<i>Phyllostachys</i> sp.	Culms	Hunan, Zhejiang	Sordariomycetes/ Chaetosphaeriales/ Chaetosphaeriaceae	[52]
<i>Pseudolachnella vermospora</i>	<i>Yushania vigens</i>	Living twigs	Yunnan	Sordariomycetes/ Chaetosphaeriales/ Chaetosphaeriaceae	[155]
<i>Pseudophaeocystostroma bambusicola</i>	Bamboo	Dead culms	Yunnan	Sordariomycetes/ Diaporthales/ Diaporthaceae	[156]
<i>Pseudopithomyces chartarum</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Didymosphaeriaceae	[69]
<i>Pseudoramularia ruwenzoriensis</i>	<i>Bambusa multiplex</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[74]
<i>Pseudospiropes bambusicola</i>	<i>Bambusa</i> sp.	Leaves	Taiwan	Leotiomycetes/ Helotiales/ Vibrisseaceae	[157]
<i>Pseudotetraploa bambusicola</i>	Bamboo	Dead branches	Sichuan	Dothideomycetes/ Pleosporales/ Tetraplosphaeriaceae	[103]
<i>Pseudotetraploa javanica</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Tetraplosphaeriaceae	[63]
<i>Pseudothyrium</i> sp.	<i>Bambusa</i> sp.	Culms	Hong Kong	Ascomycota genera, <i>incertae sedis</i>	[63]
<i>Psiloglonium mltiseptatum</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Hysteriales / Hysteriaceae	[78]
<i>Psiloglonium pusillum</i>	<i>Yushania niitakayamensis</i>	Culms	Taiwan	Dothideomycetes/ Hysteriales / Hysteriaceae	[105]
<i>Psilospora bambusae</i>	<i>Bambusa floribunda</i>	Leaves	Taiwan	Leotiomycetes/ Helotiales/ Ascodichaenaceae	[158]
<i>Psilospora bambusae</i>	<i>Bambusa multiplex</i>	Leaves	Taiwan	Leotiomycetes/ Helotiales/ Ascodichaenaceae	[72]
<i>Pteridiospora bambusae</i>	Bamboo	Dead culms	Taiwan	Dothideomycetes/ Pleosporales/ Astrosphaeriellaceae	[12]
<i>Pyrenochaetopsis yunnanensis</i>	Bamboo	Dead stems	Yunnan	Dothideomycetes/ Pleosporales/ Cucurbitariaceae	[149]
<i>Quadricura bicornis</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Tetraplosphaeriaceae	[78]
<i>Repetophragma subulatum</i>	<i>Phyllostachys basihirsuta</i> , <i>Phyllostachys glauca</i>	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales genera, <i>incertae sedis</i>	[123]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Requienella seminuda</i>	Bamboo	N/A	Yunnan	Eurotiomycetes/ Pyrenulales/ Requienellaceae	[78]
<i>Rhexoacrodictys erecta</i>	<i>Bambusa multiplex</i>	N/A	Taiwan	Sordariomycetes/ Savoryellales/ Savoryellaceae	[74]
<i>Rhexoacrodictys erecta</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Savoryellales/ Savoryellaceae	[63]
<i>Rhexoacrodictys erecta</i>	<i>Bambusa</i> sp.	Rotten culms	Yunnan	Sordariomycetes/ Pleurotheciales/ Pleurotheciaceae	[70]
<i>Rhexoacrodictys fimicola</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes/ Savoryellales/ Savoryellaceae	[63]
<i>Rosellinia chusqueae</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomycetes/ Xylariales/ Xylariaceae	[63]
<i>Rosellinia congesta</i>	<i>Bambusa</i> sp.	N/A	Hong Kong	Sordariomycetes/ Xylariales/ Xylariaceae	[63]
<i>Rosellinia culmicola</i>	Bamboo	Culms	Guangxi	Sordariomycetes/ Xylariales/ Xylariaceae	[52]
<i>Rosellinia decipiens</i>	Bamboo	Rotten sheaths	Guangdong	Sordariomycetes/ Xylariales/ Xylariaceae	[52]
<i>Rosellinia pervariabilis</i>	<i>Bambusa pervariabilis</i>	Culms	Guizhou	Sordariomycetes/ Xylariales/ Xylariaceae	[159]
<i>Rosellinia qiongensis</i>	Bamboo	Dead branches	Hainan	Sordariomycetes/ Xylariales/ Xylariaceae	[160]
<i>Rosellinia thelena</i>	<i>Arundinaria</i> sp.	N/A	Northwest China	Sordariomycetes/ Xylariales/ Xylariaceae	[126]
<i>Rousoella angustispora</i>	<i>Bambusa chungii</i>	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales/ Rousoellaceae	[102]
<i>Rousoella bambusarum</i>	Bamboo	Dead culms	Guizhou	Dothideomycetes/ Pleosporales/ Rousoellaceae	[141]
<i>Rousoella hysterioides</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78]
<i>Rousoella hysterioides</i>	Bamboo	Rotten culms	Hunan, Guangxi	Dothideomycetes/ Pleosporales/ Rousoellaceae	[52]
<i>Rousoella hysterioides</i>	Bamboo, <i>Yushania niitakayamensis</i>	Culms	Taiwan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[161]
<i>Rousoella hysterioides</i>	<i>Bambusa basihirsuta</i> , <i>Bambusa mutabilis</i> , <i>Bambusa textilis</i> , <i>Bambusa tuldooides</i> , <i>Bambusa vulgaris</i> , <i>Dendrocalamus pulverulentus</i> , <i>Indocalamus sinicus</i> , <i>Phyllostachys glauca</i> , <i>Pseudosasa hindsii</i>	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales/ Rousoellaceae	[102]
<i>Rousoella hysterioides</i>	<i>Bambusa emeiensis</i> , <i>Fargesia yunnanensis</i> , <i>Phyllostachys edulis</i> , <i>Phyllostachys reticulata</i>	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[102]
<i>Rousoella hysterioides</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Rousoellaceae	[63]
<i>Rousoella intermedia</i>	Bamboo, <i>Dendrocalamus latiflorus</i>	Culms	Taiwan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[161]
<i>Rousoella intermedia</i>	<i>Bambusa beecheyana</i> , <i>Bambusa tuldooides</i> , <i>Bambusa vulgaris</i> , <i>Phyllostachys reticulata</i>	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales/ Rousoellaceae	[102]
<i>Rousoella japonensis</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78,143]
<i>Rousoella kunmingensis</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[18,78,143]
<i>Rousoella minutella</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Dothideomycetes/ Pleosporales/ Rousoellaceae	[63]
<i>Rousoella minutella</i>	<i>Bambusa</i> sp.	Culms	Taiwan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[105]
<i>Rousoella multiloculate</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[143]
<i>Rousoella neopustulans</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78]
<i>Rousoella nitidula</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78,143]
<i>Rousoella padinae</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78,143]
<i>Rousoella siamensis</i>	Bamboo	Dead culms	Guizhou	Dothideomycetes/ Pleosporales/ Rousoellaceae	[141]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Rousoella papillate</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[143]
<i>Rousoella pseudohysterioides</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[18]
<i>Rousoella pustulans</i>	<i>Bambusa emeiensis</i> , <i>Bambusa mutabilis</i> , <i>Bambusa sinospinosa</i> , <i>Bambusa textilis</i> , <i>Fargesia</i> <i>yunnanensis</i> , <i>Phyllostachys</i> <i>nidularia</i> , <i>Phyllostachys</i> <i>reticulata</i>	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[102]
<i>Rousoella pustulans</i>	<i>Dendrocalamus</i> <i>pulverulentus</i> , <i>Phyllostachys glauca</i>	Dead culms	Hong Kong	Dothideomycetes/ Pleosporales/ Rousoellaceae	[102]
<i>Rousoella pustulans</i>	Bamboo, <i>Yushania</i> <i>niitakayamensis</i>	Culms	Taiwan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[161]
<i>Rousoella scabriscora</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78,143]
<i>Rousoella serrulata</i>	<i>Bambusa vulgaris</i>	N/A	Guangdong	Dothideomycetes/ Pleosporales/ Rousoellaceae	[162]
<i>Rousoella sinensis</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[143]
<i>Rousoella tuberculata</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[78,143]
<i>Rousoella uniloculata</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[143]
<i>Rousoella yunnanensis</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Rousoellaceae	[18]
<i>Rubroshiraia bambusae</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Shiraiaceae	[78]
<i>Rubroshiraia bambusae</i>	<i>Fargesia spathacea</i>	Living branches	Yunnan	Dothideomycetes/ Pleosporales/ Shiraiaceae	[17]
<i>Savoryella lignicola</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Savoryellales/ Savoryellaceae	[63]
<i>Scaphidium ischurochloae</i>	<i>Bambusa blumeana</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[72]
<i>Sclerococcum haliotrephum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Lecanoromycetes/ Lecanorales/ Dactylosporaceae	[63]
<i>Scolicotrichum</i> <i>phyllostachydis</i>	<i>Phyllostachys</i> sp.	Leaves	Jiangsu	Ascomycota genera, <i>incertae sedis</i>	[52]
<i>Scorias communis</i>	<i>Bambusa dolichoclada</i> , <i>Bambusa oldhamii</i> , <i>Dendrocalamus latiflorus</i> , <i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomycetes/ Capnodiales/ Capnodiaceae	[52]
<i>Scytalidium lignicola</i>	Bamboo	N/A	Yunnan	Leotiomyces/ Helotiales, <i>incertae</i> <i>sedis</i>	[78]
<i>Selenophoma scrophulariae</i>	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Dothideomycetes/ Dothideales/ Sacrotheciaceae	[63]
<i>Septocytella bambusina</i>	<i>Bambusa</i> sp.	Living leaves	Hunan, Zhejiang	Ascomycota genera, <i>incertae sedis</i>	[52]
<i>Seriascoma bambusae</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[49]
<i>Seriascoma didymosporum</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[78]
<i>Seriascoma honghense</i>	Bamboo	Dead branches	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[163]
<i>Seriascoma yunnanense</i>	Bamboo	Dead culms	Yunnan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[22]
<i>Seriascoma yunnanense</i>	<i>Phyllostachys edulis</i>	Dead culms	Sichuan	Dothideomycetes/ Pleosporales/ Occultibambusaceae	[83]
<i>Setocampanula taiwanensis</i>	<i>Yushania niitakayamensis</i>	Culms	Taiwan	Sordariomycetes/ Trichosphaeriales/ Trichosphaeriaceae	[164]
<i>Setoseptoria arundinacea</i>	<i>Arundinaria faberi</i>	N/A	Hunan	Dothideomycetes/ Pleosporales/ Lentitheciaceae	[52]
<i>Shiraia bambusicola</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Pleosporales/ Shiraiaceae	[78]
<i>Shiraia bambusicola</i>	<i>Phyllostachys</i> sp.	Branches	Anhui, Guizhou, Jiangsu, Sichuan, Zhejiang	Dothideomycetes/ Pleosporales/ Shiraiaceae	[52]
<i>Shiraia bambusicola</i>	<i>Phyllostachys heteroclada</i>	N/A	Henan, Hunan	Dothideomycetes/ Pleosporales/ Shiraiaceae	[73]
<i>Shiraia bambusicola</i>	<i>Semiarundinaria densiflora</i>	N/A	Sichuan	Dothideomycetes/ Pleosporales/ Shiraiaceae	[73]
<i>Sinosphaeria bambusicola</i>	<i>Bambusa</i> sp.	Culms	Hainan	Sordariomycetes families, <i>incertae</i> <i>sedis</i> / Thyridiaceae	[165]

(to be continued)

Bambusicolous Ascomycota in China

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Solicorynespora foveolata</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Dothideomycetes genera, <i>incertae sedis</i>	[63]
<i>Solicorynespora foveolata</i>	<i>Phyllostachys edulis</i>	N/A	Hunan	Dothideomycetes genera, <i>incertae sedis</i>	[73]
<i>Solicorynespora foveolata</i>	<i>Phyllostachys</i> sp.	Culms	Taiwan	Dothideomycetes genera, <i>incertae sedis</i>	[69]
<i>Solicorynespora foveolata</i>	<i>Phyllostachys</i> sp.	N/A	Guangxi, Jiangsu, Sichuan, Yunnan	Dothideomycetes genera, <i>incertae sedis</i>	[52]
<i>Solosympiella phyllostachydis</i>	<i>Phyllostachys</i> sp.	Leaves	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[68]
<i>Spadicoides bambusicola</i>	<i>Bambusa textilis</i>	Dead culms	Hong Kong	Sordariomycetes/ Xenospadicoidales/ Xenospadicoidaceae	[63]
<i>Spadicoides minuta</i>	<i>Phyllostachys reticulata</i>	N/A	Yunnan	Sordariomycetes/ Xenospadicoidales/ Xenospadicoidaceae	[118]
<i>Spegazzinia tessartha</i>	<i>Phyllostachys edulis</i>	N/A	China	Dothideomycetes/ Pleosporales/ Didymosphaeriaceae	[166]
<i>Sphaerulina bambusicola</i>	<i>Chimonobambusa yunnanensis</i>	Living leaves	Yunnan	Dothideomycetes/ Capnodiales/ Mycosphaerellaceae	[167]
<i>Sphaerulina phyllostachydis</i>	<i>Phyllostachys reticulata</i>	Dead culms	Taiwan	Dothideomycetes/ Capnodiales/ Mycosphaerellaceae	[168]
<i>Spirodecospora bambusicola</i>	<i>Bambusa</i> sp.	Dead culms	Hong Kong	Sordariomycetes/ Xylariales genera, <i>incertae sedis</i>	[63]
<i>Spirodecospora melnikii</i>	<i>Bambusa</i> sp.	Dead culms	Hong Kong	Sordariomycetes/ Xylariales genera, <i>incertae sedis</i>	[169]
<i>Sporidesmiella hyalosperma</i>	<i>Phyllostachys edulis</i> , <i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomycetes/ Pleosporales/ Melanommataceae	[69]
<i>Sporidesmium baccharidis</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[63]
<i>Sporidesmium coprophilum</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[69]
<i>Sporidesmium coronatum</i>	<i>Pseudosasa hindsii</i> , <i>Sinobambusa tootsik</i>	Dead culms	Hong Kong	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[123]
<i>Sporidesmium ehrenbergii</i>	<i>Bambusa emeiensis</i>	Dead culms	Yunnan	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[123]
<i>Sporidesmium eucalypti</i>	<i>Pseudosasa hindsii</i>	Dead culms	Hong Kong	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[123]
<i>Sporidesmium eupatoriicola</i>	<i>Bambusa textilis</i>	Dead culms	Hong Kong	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[63]
<i>Sporidesmium fragilissimum</i>	<i>Bambusa emeiensis</i> , <i>Dendrocalamus bambusoides</i>	Dead culms	Yunnan	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[123]
<i>Sporidesmium penzigii</i>	<i>Sinobambusa tootsik</i>	Dead culms	Hong Kong	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[123]
<i>Sporidesmium polymorphum</i>	Bamboo	Culms	Fujian, Jiangsu	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[52]
<i>Sporidesmium taiwanense</i>	<i>Phyllostachys</i> sp.	Culms	Taiwan	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[68]
<i>Sporidesmium uapacae</i>	<i>Bambusa emeiensis</i> , <i>Phyllostachys edulis</i> , <i>Phyllostachys reticulata</i>	Dead culms	Yunnan	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[123]
<i>Sporidesmium vagum</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[69]
<i>Sporidesmium verrucisporum</i>	<i>Pseudosasa hindsii</i>	Dead culms	Hong Kong	Sordariomycetes/ Sporidesmiales/ Sporidesmiaceae	[123]
<i>Sporormiella minima</i>	<i>Bambusa</i> sp., <i>Bambusa tuldoidea</i>	Culms	Hong Kong	Dothideomycetes/Pleosporales/ Sporormiaceae	[63]
<i>Sporoschisma hemipsilum</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/Chaetosphaeriales/ Chaetosphaeriaceae	[63]
<i>Stachybotrys bambusicola</i>	<i>Phyllostachys edulis</i>	N/A	Taiwan	Sordariomycetes/ Hypocreales/ Stachybotryaceae	[69]
<i>Stachybotrys parvisporus</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomycetes/ Hypocreales/ Stachybotryaceae	[63]
<i>Stachylidium bicolor</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Glomerellales/ Plectosphaerellaceae	[69]
<i>Stenocarpella maydis</i>	<i>Bambusa tuldoidea</i>	Leaves	Hong Kong	Sordariomycetes/ Diaporthales/ Diaporthaceae	[63]
<i>Striatodecospora bambusae</i>	<i>Bambusa chungii</i>	Dead culms	Hong Kong	Sordariomycetes/ Xylariales genera, <i>incertae sedis</i>	[170]
<i>Strigula macrocarpa</i>	Bamboo	N/A	Yunnan	Dothideomycetes/ Strigulales/ Strigulaceae	[78]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Strossmayeria bakeriana</i>	<i>Phyllostachys edulis</i>	N/A	Taiwan	Leotiomyces/ Helotiales genera, <i>incertae sedis</i>	[74]
<i>Submersisphaeria bambusicola</i>	<i>Pseudosasa hindsii</i>	Dead culms	Hong Kong	Sordariomyces/ Annulatascales/ Annulatasceae	[63]
<i>Tetraploa aristata</i>	<i>Bambusa</i> sp.	N/A	Guangdong	Dothideomyces/ Pleosporales/ Tetraplosporaeriaceae	[52]
<i>Tetraploa bambusae</i>	Bamboo	Dead twigs	Yunnan	Dothideomyces/ Pleosporales/ Tetraplosporaeriaceae	[149]
<i>Tetraploa nagasakiensis</i>	Bamboo	Dead branches	Yunnan	Dothideomyces/ Pleosporales/ Tetraplosporaeriaceae	[171]
<i>Thozetella bambusicola</i>	Bamboo	Dead branches	Sichuan	Sordariomyces/ Chaetosphaeriales/ Chaetosphaeriaceae	[31]
<i>Torpedospora radiata</i>	<i>Bambusa</i> sp.	Culms	Hong Kong	Sordariomyces/ Torpedosporales/ Torpedosporaceae	[63]
<i>Torula herbarum</i>	<i>Bambusa</i> sp.	Dead culms	Hong Kong	Dothideomyces/ Pleosporales/ Torulaceae	[63]
<i>Tretophragmia nilgirensis</i>	<i>Bambusa</i> sp., <i>Dendrocalamus</i> sp.	Culms	Hong Kong	Sordariomyces/ Xylariales/ Vamsapriyaceae	[63]
<i>Trichobotrys effusus</i>	Bamboo	N/A	Yunnan	Ascomycota genera, <i>incertae sedis</i>	[78]
<i>Trichoderma simmonsii</i>	Bamboo	N/A	Yunnan	Sordariomyces/ Hypocreales/ Hypocreaceae	[78]
<i>Trichoderma viride</i>	Bamboo	Rotten culms	Anhui, Fujian, Guangdong, Guizhou, Hunan, Jiangsu, Jilin, Sichuan, Zhejiang	Sordariomyces/ Hypocreales/ Hypocreaceae	[52]
<i>Trichothecium roseum</i>	<i>Bambusa tuldooides</i>	Leaves	Hong Kong	Sordariomyces/ Hypocreales/ Myrotheciomycetaceae	[63]
<i>Trichothecium roseum</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomyces/ Hypocreales/ Myrotheciomycetaceae	[69]
<i>Tridentaria implicans</i>	<i>Phyllostachys edulis</i>	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[74]
<i>Trifurcospora irregularis</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Ascomycota genera, <i>incertae sedis</i>	[68]
<i>Tripospermum chiayiense</i>	<i>Phyllostachys</i> sp.	Leaves	Taiwan	Dothideomyces/ Capnodiales/ Neodevriesiaceae	[68]
<i>Tubeufia cylindrothecia</i>	Bamboo	N/A	Yunnan	Dothideomyces/ Tubeufiales/ Tubeufiaceae	[78]
<i>Tubeufia javanica</i>	<i>Bambusa blumeana</i>	Dead culms	Taiwan	Dothideomyces/ Tubeufiales/ Tubeufiaceae	[52]
<i>Vamsapriya aquatica</i>	Bamboo	Culms	Yunnan	Sordariomyces/ Xylariales/ Vamsapriyaceae	[42]
<i>Vamsapriya indica</i>	Bamboo	Culms	Yunnan	Sordariomyces/ Xylariales/ Vamsapriyaceae	[42]
<i>Vamsapriya indica</i>	Bamboo	N/A	Yunnan	Sordariomyces/ Xylariales/ Vamsapriyaceae	[78]
<i>Vamsapriya yunnana</i>	Bamboo	Dead culms	Yunnan	Sordariomyces/ Xylariales/ Vamsapriyaceae	[13]
<i>Vermicularia nigrontentis</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomyces/ Glomerellales/ Glomerellaceae	[72]
<i>Veronaea aquatica</i>	Bamboo	Decaying culms	Jiangxi	Eurotiomyces/ Chaetothyriales/ Herpotrichiellaceae	[44]
<i>Veronaea coprophila</i>	<i>Phyllostachys reticulata</i>	Culms	Hong Kong	Eurotiomyces/ Chaetothyriales/ Herpotrichiellaceae	[63]
<i>Veronaea japonica</i>	Bamboo	N/A	Yunnan	Eurotiomyces/ Chaetothyriales/ Herpotrichiellaceae	[78]
<i>Verruconis verruculosa</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomyces/ Venturiales/ Sympoventuriaceae	[69]
<i>Verticimonosporium ellipticum</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomyces/ Hypocreales/ Hypocreaceae	[69]
<i>Volutella longipila</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomyces/ Hypocreales/ Nectriaceae	[69]
<i>Wallrothiella subiculosa</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Sordariomyces/ Amplistromatales/ Amplistromataceae	[77]
<i>Xenoastrosphaeriella trochus</i>	<i>Phyllostachys reticulata</i>	Dead culms	Yunnan	Dothideomyces/ Pleosporales/ Astrosphaeriellaceae	[102]
<i>Xenosporium berkeleyi</i>	<i>Phyllostachys makinoi</i>	N/A	Taiwan	Dothideomyces genera, <i>incertae sedis</i>	[69]
<i>Xenosporium indicum</i>	<i>Phyllostachys edulis</i>	Dead culms	Taiwan	Dothideomyces genera, <i>incertae sedis</i>	[74]
<i>Xylaria badia</i>	<i>Bambusa blumeana</i>	Culms	Taiwan	Sordariomyces/ Xylariales/ Xylariaceae	[97]

(to be continued)

Table 1. (continued)

Species name	Bamboo host	Substrate	Detailed province	Classification	Reference
<i>Xylaria bambusicola</i>	Bamboo, <i>Bambusa oldhamii</i> , <i>Phyllostachys edulis</i>	Culms	Taiwan	Sordariomycetes/ Xylariales/ Xylariaceae	[97]
<i>Xylaria schweinitzii</i>	<i>Phyllostachys edulis</i>	Culms	Taiwan	Sordariomycetes/ Xylariales/ Xylariaceae	[97]
<i>Xylariopsis lini</i>	<i>Bambusa</i> sp.	Dead culms	China	Sordariomycetes/ Hypocreales/ Clavicipitaceae	[54]
<i>Zygosporium gibbum</i>	<i>Bambusa tuldoidea</i>	Leaves	Hong Kong	Sordariomycetes/ Xylariales/ Zygosporiaceae	[63]
<i>Zygosporium gibbum</i>	<i>Phyllostachys</i> sp.	N/A	Taiwan	Sordariomycetes/ Xylariales/ Zygosporiaceae	[69]

Aim of this study

In the present study, we provide a systematic checklist of bambusicolous Ascomycota in China based on literature dating back ~100 years to present. In addition, we have provided an in-depth view of the species richness of bambusicolous Ascomycota in China with an emphasis on southwest China, as well as investigating the distribution of these fungi across various genera of bamboo. Furthermore, the bamboo genera effect on bambusicolous Ascomycota in China with an emphasis on southwest China is discussed here.

Materials and methods

Species and documents of bambusicolous Ascomycota in China up to 1979 from 'Sylloge Fungorum Sinicorum', were compiled by Tai^[52]. The records of bambusicolous Ascomycota up to 2,000 in Hong Kong are known from Lu et al.^[63]. Kuai^[53] listed 190 bambusicolous pathogens in mainland China and Taiwan. Our checklist of bambusicolous Ascomycota in China is largely based on articles published in journals, books and online resources (USDA database; https://nt.ars-grin.gov/fungal_databases/fungushost/fungushost.cfm).

Our checklist (Table 1) includes fungal names, host names, substrates, province-wide distribution details, classification and references. The fungal classification followed is 'the outline of fungi and fungi-like taxa'^[64,65]. The fungal scientific names listed in this study have followed the current names in Species Fungorum^[66]. The host names followed the current scientific names in The Plant List (www.theplantlist.org). Fungal species names are listed in alphabetical order.

Results and discussion

Species richness of bambusicolous Ascomycota in China with an emphasis on southwest China

Since the beginning of the 20th century, bambusicolous Ascomycota has been increasingly discovered in China. According to Zhou et al.^[56], who did a comprehensive study of bambusicolous Ascomycota, there were 80 bambusicolous ascomycetes associated with six bamboo genera in China. Over the last two decades, more than 400 species have been discovered in this region.

Our updated checklist now accommodates 512 bambusicolous ascomycete taxa, associated with 16 bamboo genera, which are distributed in 50 orders, 116 families and 279 genera (including 45 genera *incertae sedis*), representing more than 1/3 of the known bambusicolous Ascomycota in the world. Bambusicolous Ascomycota in China is mostly distributed in

Dothideomycetes, Eurotiomycetes, Lecanoromycetes, Leotiomyces, Orbiliomycetes, Pezizomycetes and Sordariomycetes. The inventories of these fungi (Figs 1 & 2) showed that Dothideomycetes and Sordariomycetes are the largest fungal groups discovered in China. *Apiospora*, *Hypoxyton*, *Phyllachora* and *Roussoella* are most abundant genera in China (Fig. 3), while *Apiospora*, *Phyllachora*, *Roussoella* and *Sporidesmium* are highly diverse (Fig. 4).

Bambusicolous Ascomycota in southwest China comprises 174 taxa, distributed in 31 orders, 59 families, and 97 genera (including five genera *incertae sedis*). In southwest China, bambusicolous Ascomycota is mostly comprised of Dothideomycetes, Eurotiomycetes, Lecanoromycetes, Leotiomyces and Sordariomycetes (Figs 5 & 6). The most abundant genera included *Apiospora*, *Arthrinium*, *Astrosphaeriella*, *Collodiscula*, *Hypoxyton*, *Occultibambusa*, *Phyllachora*, *Sporidesmium* and *Roussoella* (more than four records), of which *Apiospora*, *Phyllachora* and *Roussoella* were dominant (more than 10 records). The dominance of these three genera in southwest China concurred with the overall dominance in China.

Bambusicolous Ascomycota in Yunnan province of China, comprises 133 taxa distributed in 28 orders, 50 families, and 77 genera (including five genera *incertae sedis*). In Yunnan, bambusicolous Ascomycota is mostly distributed in Dothideomycetes, Eurotiomycetes, Leotiomyces and Sordariomycetes (Figs 7 & 8). *Apiospora*, *Astrosphaeriella*, *Phyllachora*, *Roussoella*, *Seriascoa*, *Sporidesmium* and *Vamsapriya* were the most abundant genera in Yunnan (more than three records) and of which *Apiospora*, *Phyllachora* and *Roussoella* were most dominant (more than eight records).

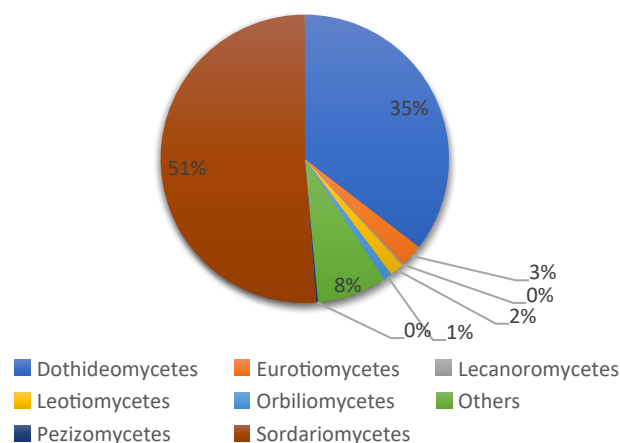


Fig. 1 Diversity of bambusicolous fungi in China, in different classes of Ascomycota.

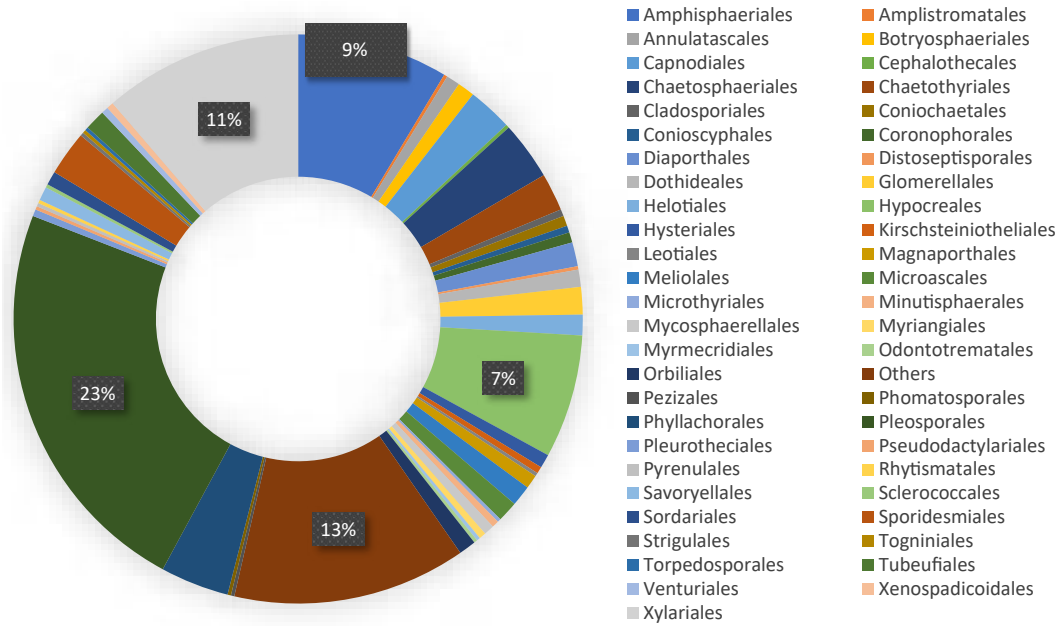


Fig. 2 Diversity of bambusicolous fungi in China, in different orders of Ascomycota.

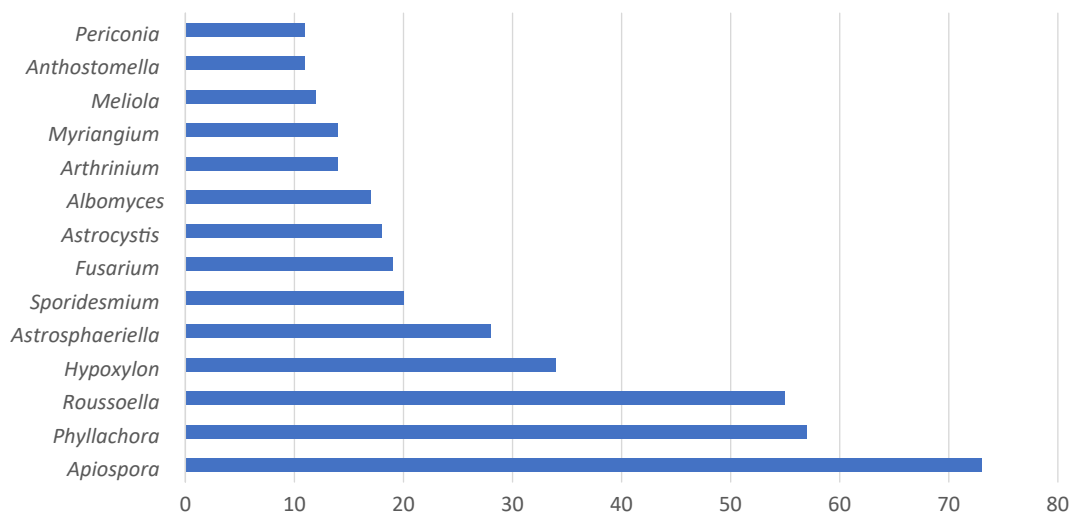


Fig. 3 Species abundance of bambusicolous fungi in China, for genera of Ascomycota (more than ten records per species), for collections made between 1932 and 2022.

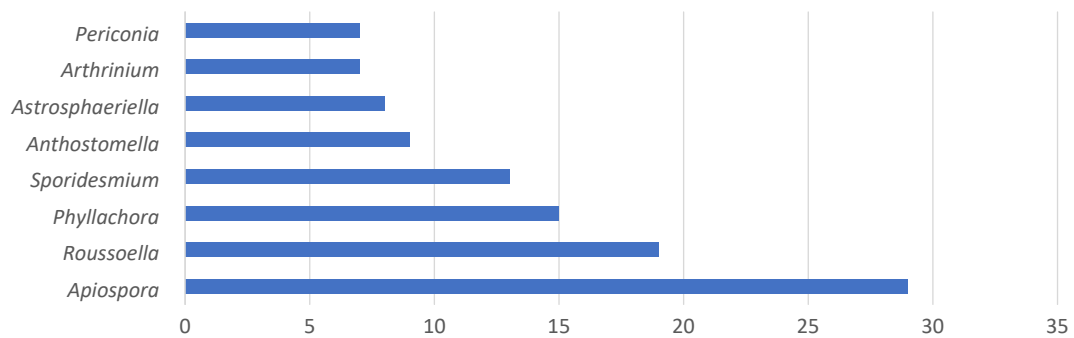


Fig. 4 Species diversity of bambusicolous fungi in China, for genera of Ascomycota (more than seven species per genus), for collections made between 1932 and 2022.

Bambusicolous Ascomycota in Guizhou of China comprises 30 taxa distributed in nine orders, 17 families and 20 genera. In

Guizhou, bambusicolous Ascomycota is mostly distributed in classes Dothideomycetes and Sordariomycetes (Fig. 9).

Bambusicolous Ascomycota in China

Compared with a single record of other genera in Guizhou, *Apiospora*, *Arthrinium* and *Collodiscula* were found to be more abundant in Guizhou.

Bambusicolous Ascomycota in Sichuan of China comprises 35 taxa in 11 orders, 23 families, and 27 genera (including one genera *incertae sedis*). In Sichuan, bambusicolous Ascomycota is mostly distributed in Dothideomycetes, Lecanoromycetes and Sordariomycetes (Fig. 10). Except that *Apiospora* and *Phyllachora* were recorded in Sichuan more than five times,

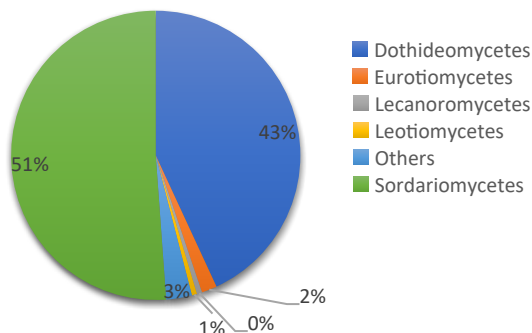


Fig. 5 Species diversity of bambusicolous fungi in different classes of Ascomycota in southwest China.

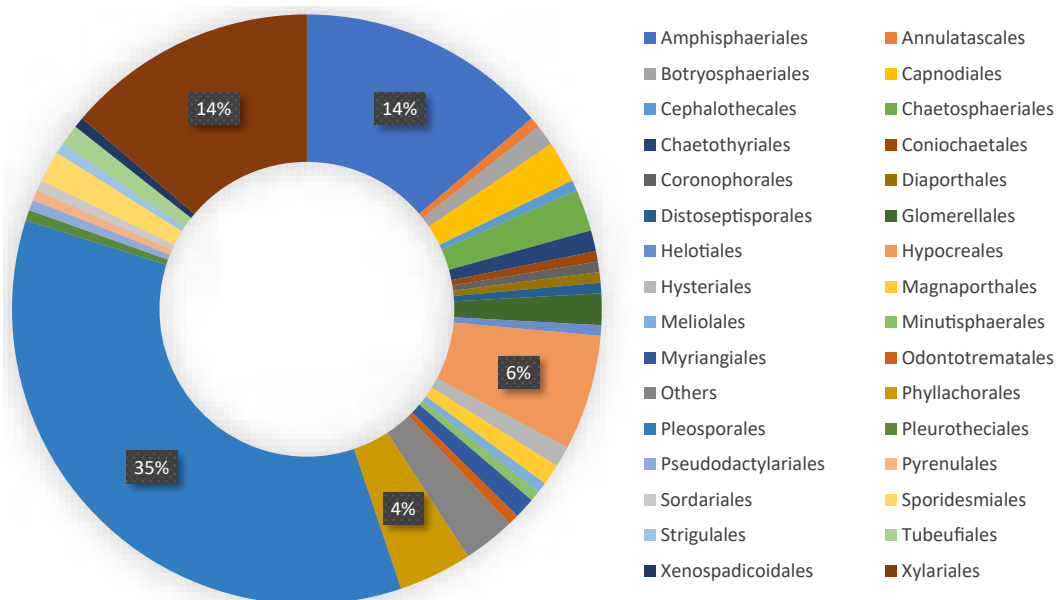


Fig. 6 Species diversity of bambusicolous fungi in different orders of Ascomycota in southwest China.

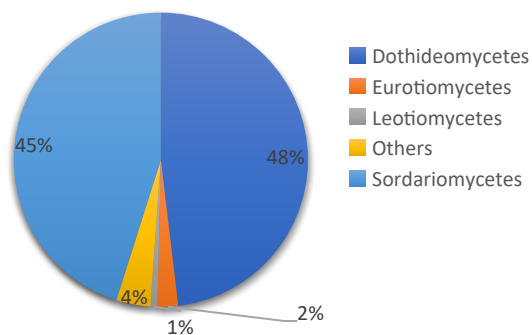


Fig. 7 Species diversity of bambusicolous fungi in different classes of Ascomycota in Yunnan, China.

other genera were recorded on only one occasion in Sichuan Province.

Bamboo genera effect on species richness of bambusicolous Ascomycota in China with an emphasis on southwest China

To date, bambusicolous Ascomycota in China has been associated with 16 bamboo genera (Fig. 11), viz. *Arundinaria* Michx., *Bambusa* Schreb., *Chimonobambusa* Makino, *Dendrocalamus* Nees, *Fargesia* Franch., *Gelidocalamus* T.H. Wen, *Indocalamus* Nakai, *Oligostachyum* Z.P. Wang & G.H. Ye, *Phyllostachys* Siebold & Zucc., *Pleioblastus* Nakai, *Pseudosasa* Makino ex Nakai, *Sasa* Makino & Shibata, *Schizostachyum* Nees, *Semiarundinaria* Makino ex Nakai, *Sinobambusa* Makino ex Nakai and *Yushania* Kengf. Most of bambusicolous Ascomycota in China are predominantly living on *Bambusa* (193 species), *Phyllostachys* (146 species) and *Dendrocalamus* (49 species) (Fig. 11). Similarly, it has been shown that the ascomycete diversity found on *Bambusa* and *Phyllostachys* are the most abundant worldwide^[11]. Both our results and those of Dai et al.^[11] indicate that bambusicolous ascomycete species diversity found on *Dendrocalamus* in China, was greater than all the combined reports globally. This implies that China has a good ecological environment for Ascomycota growing on *Dendrocalamus*.

Although Sordariomycetes are the largest ascomycetous group on *Bambusa*, *Dendrocalamus* and *Phyllostachys* (Figs 12–14), respectively, Pleosporales (Dothideomycetes) always has the highest diversity on *Bambusa*, *Dendrocalamus* and *Phyllostachys* in China (Figs 15–17). In addition, both Xylariales and Phyllachorales maintain relatively high diversity on *Bambusa*, *Dendrocalamus* and *Phyllostachys*. Bambusicolous Ascomycota in China is distributed mainly in Amphisphaeriales, Capnodiales, Chaetothyriales, Hypocreales, Phyllachorales, Pleosporales and Xylariales on *Bambusa*, *Dendrocalamus* and *Phyllostachys*. These results indicate a degree of host specificity between these fungi and the bamboo host (Fig. 18). Amphisphaeriales is more likely to live on *Bambusa*. Capnodiales is more likely to be found on *Dendrocalamus* than other hosts.

However, we found that Chaetothyriales are not likely to be found growing on *Bambusa*. Our results also show that Hypocreales have a preference for bamboo of the genus *Phyllostachys*. Phyllachorales is common on *Dendrocalamus*; Pleosporales can thrive on *Bambusa*, *Dendrocalamus* and

Phyllostachys, and it appears that Pleosporales have no host specificity. And finally, we report that Xylariales are commonly found growing on *Bambusa* and *Dendrocalamus*.

Based on existing records, bambusicolous Ascomycota is said to be found mostly on *Bambusa*, *Chimonobambusa*, *Dendroca-*

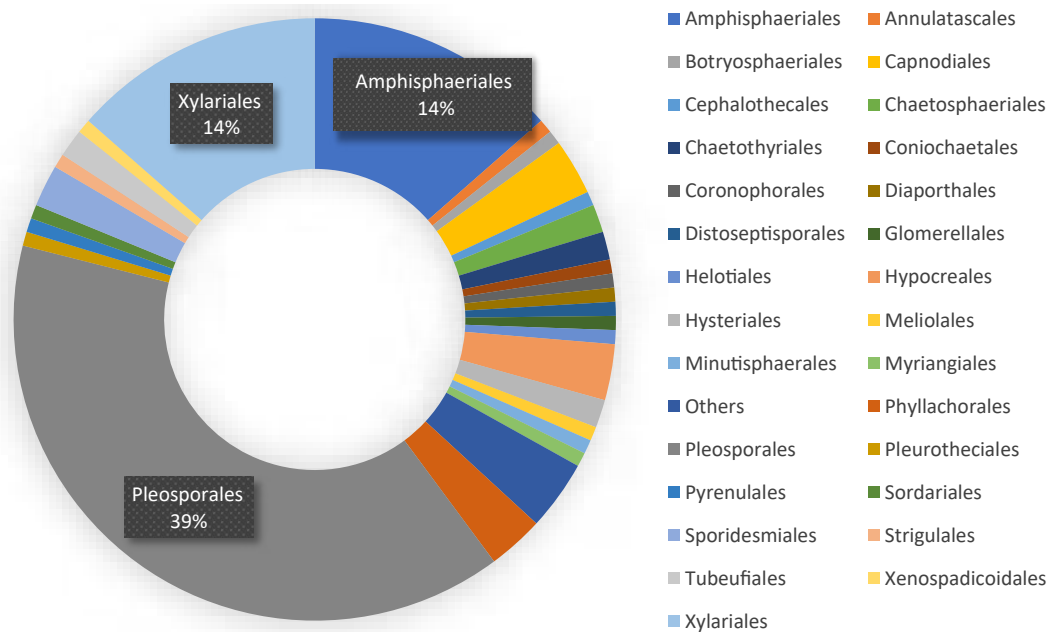


Fig. 8 Species diversity of bambusicolous fungi in different orders of Ascomycota in Yunnan, China.

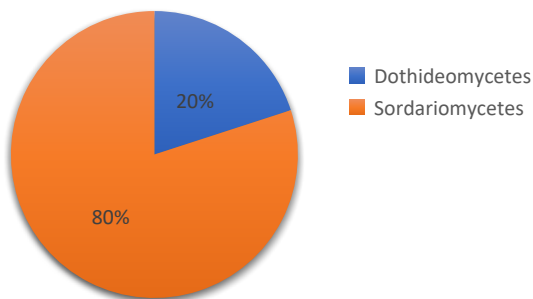


Fig. 9 Species diversity of bambusicolous Ascomycota in Guizhou, China.

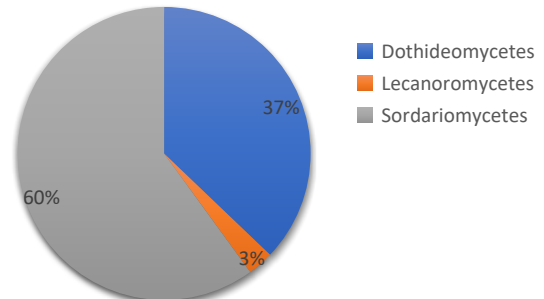


Fig. 10 Species diversity of bambusicolous Ascomycota in Sichuan, China.

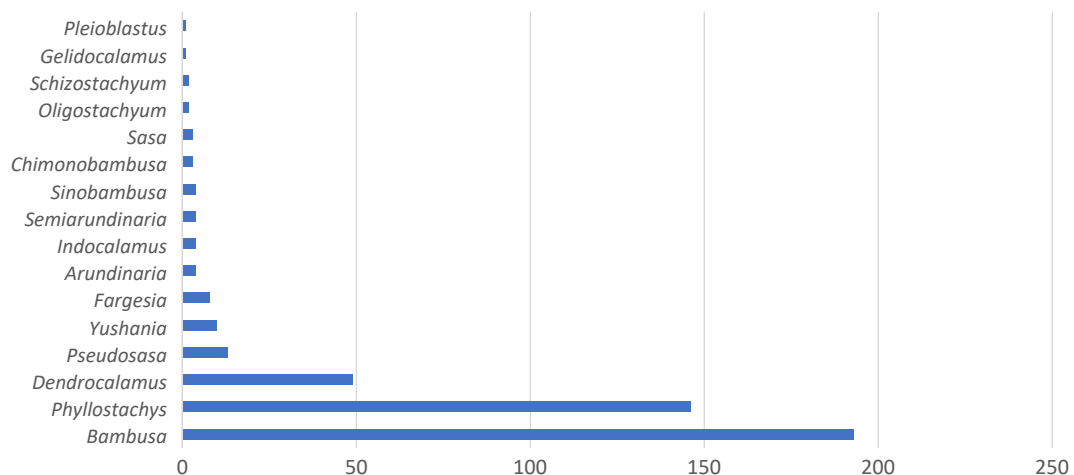


Fig. 11 Bambusicolous Ascomycota associated with different host genera in China from 1932 to 2022.

Bambusicolous Ascomycota in China

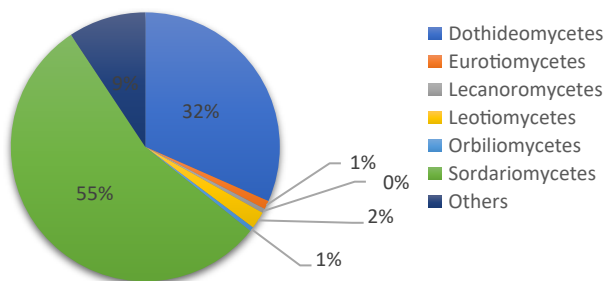


Fig. 12 Diversity of bambusicolous fungi in different classes of Ascomycota occurred on *Bambusa* in China.

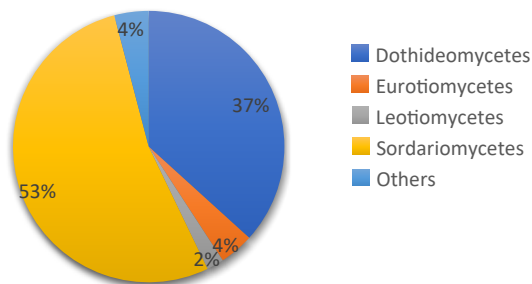


Fig. 13 Diversity of bambusicolous fungi in different classes of Ascomycota occurred on *Dendrocalamus* in China.

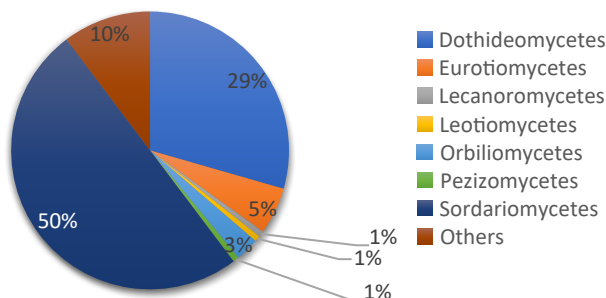


Fig. 14 Diversity of bambusicolous fungi in different classes of Ascomycota occurred on *Phyllostachys* in China.

lamus, *Fargesia*, *Phyllostachys*, *Sasa*, *Semiarundinaria* and *Yushania*, and especially *Phyllostachys*, in southwest China. However, only *Phyllostachys* have sufficient ascomycete sampling records for the purpose of calculating species richness data, and thus our results are limited to that of Ascomycota found on *Phyllostachys* in southwest China (Figs 19 & 20). Although Sordariomycetes is the largest ascomycetous group on *Phyllostachys* in southwest China, Pleosporales (Dothideomycetes) had the greatest species diversity on *Phyllostachys* in region. Based on Figs 17 & 20, species diversity of Pleosporales in southwest China is far greater than the average in all of China. Based on our results, Pleosporales is the largest order group of bambusicolous Ascomycota in southwest China.

Conclusions

Dothideomycetes and Sordariomycetes were by far the most dominant Ascomycota found on bamboo, not only in southwest China, but also in the entire country. The ratio of species richness of bambusicolous Ascomycota in Yunnan is closer to that in southwest China. Thus, Yunnan appears to be a model research area for the study of these fungi in southwest China. The ratio of species richness of Dothideomycetes in southwest China was greater than in the entire country, this is either due the southwestern area being more suitable for these fungi, or as a result of more studies being conducted in the southwest. Guizhou and Yunnan, located in Yunnan-Guizhou Plateau of China, falling within similar climate zones and latitude. However, the species diversity of bambusicolous Ascomycota in Guizhou seems to be unique (Fig. 9), probably due to lack of enough species samplings and local environmental limitation. On the other hand, this unique species diversity reveals a huge potential to discover more novel bambusicolous Dothideomycetes in Guizhou in the future.

Yunnan is home to a limited number of bamboo forest areas, whereas most bamboo forests (70%) are in Fujian, Hunan, Jiangxi and Zhejiang provinces^[2,3]. In addition, Yunnans special mountainous plateau terrain introduces additional difficulties

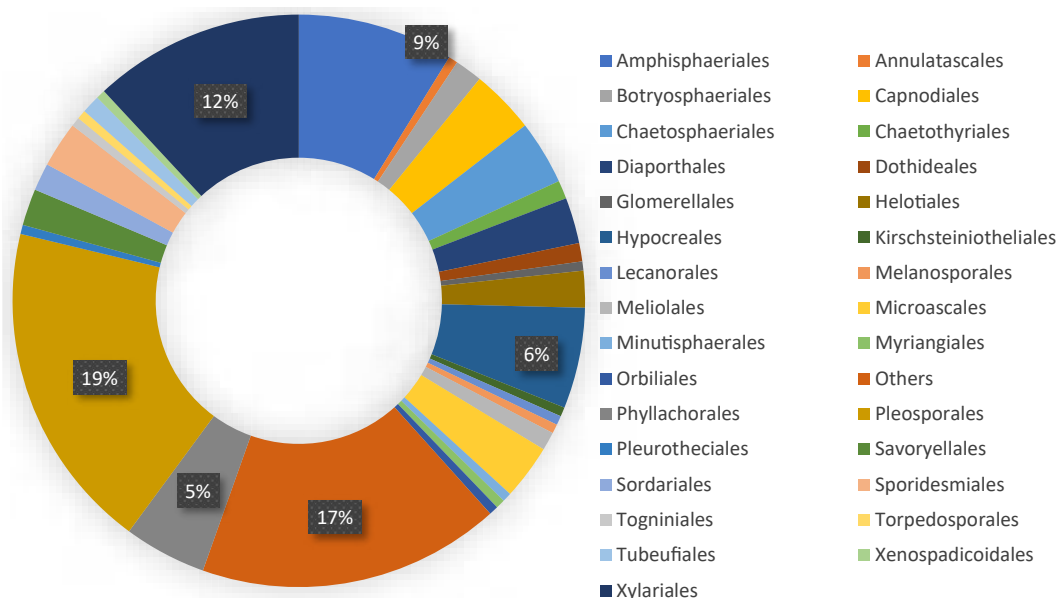


Fig. 15 Diversity of bambusicolous fungi in different orders of Ascomycota occurred on *Bambusa* in China.

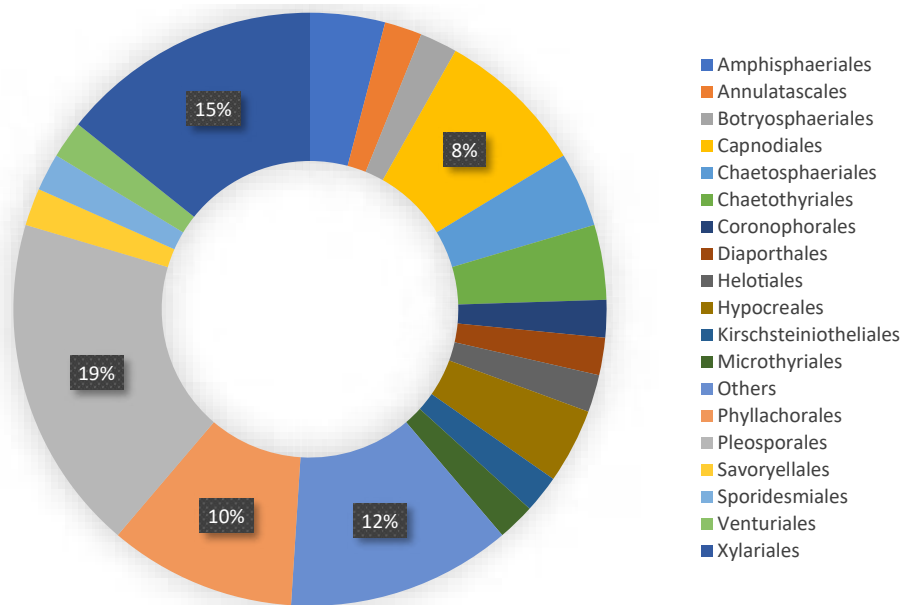


Fig. 16 Diversity of bambusicolous fungi in different orders of Ascomycota occurred on *Dendrocalamus* in China.

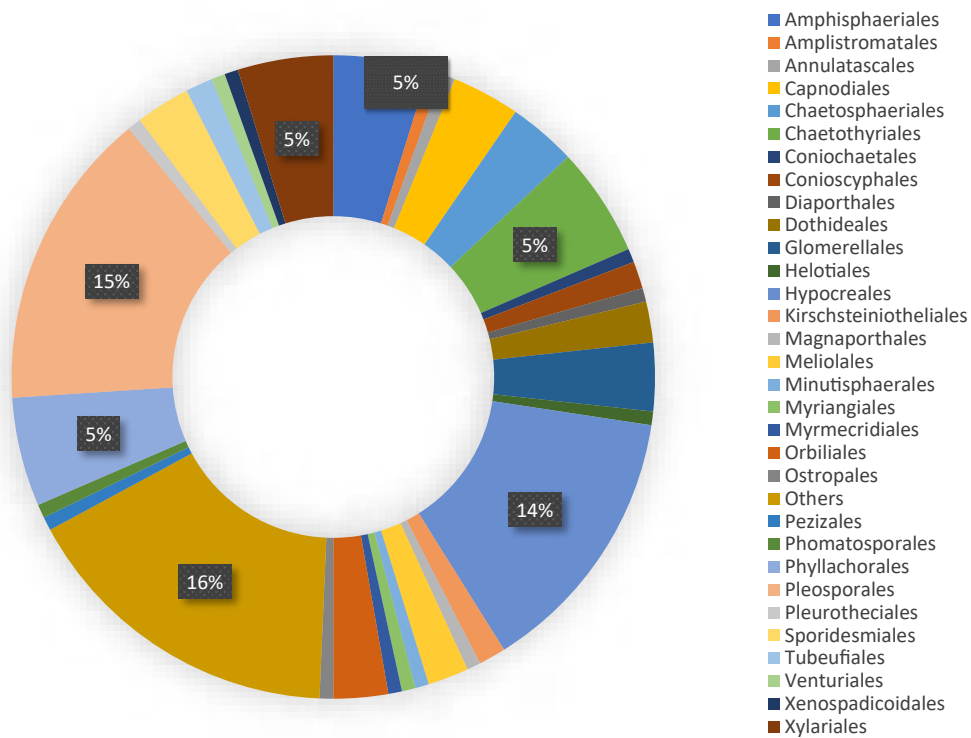


Fig. 17 Diversity of bambusicolous fungi in different orders of Ascomycota occurred on *Phyllostachys* in China.

in discovering bambusicolous Ascomycota. The number of bambusicolous Ascomycota in Yunnan have mostly been discovered in the past two decades, mainly due to unique geographic and ecological environments and rich species diversity of bamboo in Yunnan. Except Hong Kong and Taiwan, Yunnan can be regarded as a hot-spot for bambusicolous Ascomycota in China.

Genera preference of bambusicolous Ascomycota in China is somewhat distinct. Fungi of seven orders (Amphisphaerales, Capnodiales, Chaetothyriales, Hypocreales, Phyllachorales, Pleo-

sporales and Xylariales) are found on *Bambusa*, *Dendrocalamus* and *Phyllostachys*.

The current work highlights a number of shortcomings in the literature and indicates future directions for research in this field. First, bamboo hosts of many previously published and reported species were not correctly identified, which led to many species and records remaining doubtful when analyzed for species richness of bambusicolous Ascomycota. Therefore, it is necessary that researchers should provide detailed host names in the future. Secondly, since Tanaka et al.^[67], most

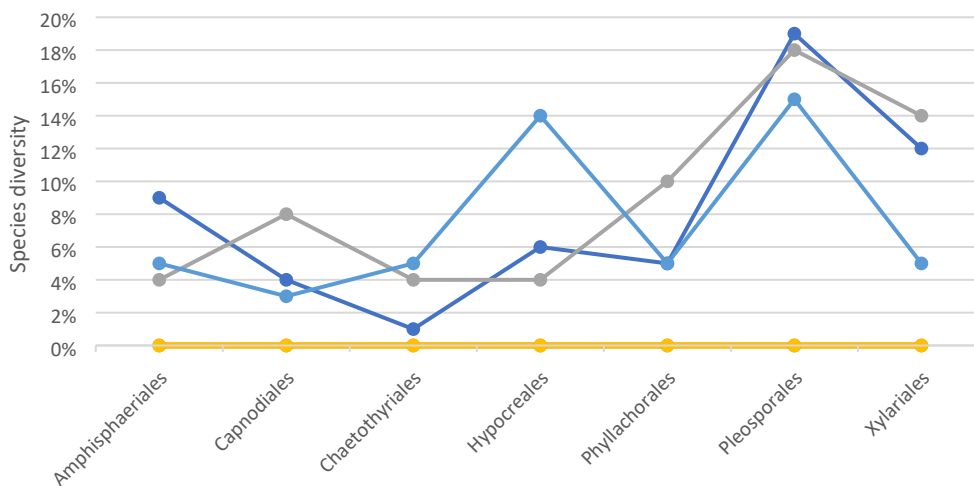


Fig. 18 Species diversity of bambusicolous fungi in orders of Ascomycota occurred on *Bambusa*, *Dendrocalamus* and *Phyllostachys*. The blue, grey and dark blue lines represent *Bambusa*, *Dendrocalamus* and *Phyllostachys*, respectively.

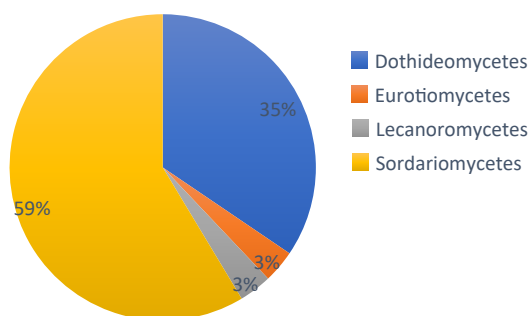


Fig. 19 Species diversity of bambusicolous fungi in different classes of Ascomycota occurred on *Phyllostachys* in southwest China.

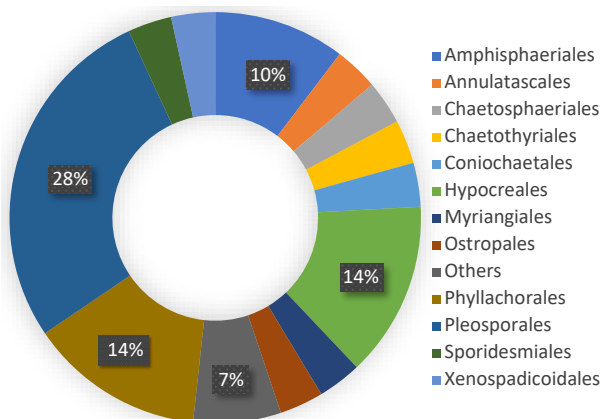


Fig. 20 Species diversity of bambusicolous fungi in different orders of Ascomycota occurred on *Phyllostachys* in southwest China.

studies used phylogenetic analyses to identify new taxa of bambusicolous fungi. With DNA sequencing technique gaining popularity, we have a challenge in taxonomic placement of fungi, especially in resolving taxonomic placement of poorly-studied bambusicolous Ascomycota. Thirdly, to date, we have a limited knowledge on bambusicolous endophytes. And finally, the study of co-evolution between bamboos and bambusicolous Ascomycota requires further attention in future studies.

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Conflict of interest

The authors declare that they have no conflict of interest.

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