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AN ANNOTATED CHECKLIST OF MICROBES ASSOCIATED WITH BAMBOO IN THE INDIAN SUBCONTINENT

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Abstract: In India, the area occupied by bamboo is found to be around 1,003 hectares with about 23 genera and 128 species. The most common and economically important bamboo species are *Bambusa bambos*, *B. nutans*, *B. tulda*, *B. vulgaris*, *Dendrocalamus hamiltonii*, *D. strictus*, *Ochlandra travancorica* and *Melaconia baccifera*. The present paper deals with the appraisal of the bamboo microbes in India encountered on different species of bamboo, along with their taxonomic status, the details of diseases/infection, and the location of reporting and the author. Records of association of microbes/ pathogens on bamboo are scattered in a wide array of journals, books and dissertations. Hence, this comprehensive checklist of microbes associated with bamboo in India has been prepared. This review documents the data of the known 432 microbes associated with bamboo belonging to 12 phyla and 46 orders. The fungal associations have diverse habits- as saprobes, pathogens and also as symbionts. Pathogens belonging to the phylum Deuteromycota were the highest (39.35%), followed by 26.85% in Ascomycota and 20.83% in Basidiomycota. Some of the phyla had pathogens causing various diseases. The highest record of the foliage disease incidence was 40.99% and 24.12% respectively by pathogenic 'Ascomycota' and 'Deuteromycota'. Among Basidiomycota, pathogens causing culm diseases were the highest (26.25%), 66.66% of pathogens belonging to Phylum Proteobacteria were responsible for causing infection of seeds. Among the viral diseases, foliage diseases were more (75%). Myxomycetes were observed to cause the decay and deterioration of bamboo culms upto about 54.54%. It was observed that fungal isolates belonging to the order Moniliales dominated in causing foliage diseases (22.75%), culm diseases (25.36%), and nursery diseases (45.1%) and also infection of seeds (77.94%).

Keywords: Bacteria, bamboo, checklist, fungi, nematode, virus.

Bamboo, regarded as 'The Green Gold' of the 21st century and commonly known as 'poor man's timber', plays a significant role in human society since time immemorial and contributes to the subsistence needs of over a billion people worldwide and plays a vital role in the socio-economics of the rural population. It has emerged as a major source of raw material for several processed products primarily due to its fast growth, wide spread occurrence and its multiple uses.

In India, the area occupied by bamboo is found to be around 1,003 hectares with about 23 genera and 128 species (Kant 2000). The most common and economically important bamboo species are *Bambusa bambos*, *B. nutans*, *B. tulda*, *B. vulgaris*, *Dendrocalamus hamiltonii*, *D. strictus*, *Ochlandra travancorica* and *Melaconia baccifera*. The productive potential of bamboo stands are affected by various biotic and abiotic factors. A large number of diseases and other microbes associated with bamboo have been reported from different countries. Earlier, attempts to collate information on bamboo diseases were made by Mohanan & Liese (1990) and Mohanan (2002). Reports and studies on bamboo fungi and fungi on other species have been made by

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various researchers in India (Hosagoudar 1985, 1994, 2002, 2005, 2013; Hosagoudar et al. 1995, 1996, 1998, 2001, 2009; Rajeshkumar et al. 2013). A comprehensive literature search on Indian bamboo mycology based on data published from the year 1856 to 2013 has resulted in the preparation of this checklist. The checklist details the fungal, bacterial and viral disease incidences in various bamboo species with the incidence of fungal diseases being the most dominant.

Annotated checklist of microbes in various bamboo species

Bamboo seedlings and plantations were encountered with several groups of micro-organisms such as bacteria, fungi, myxomycetes, nematodes, virus, etc. About 12 different phyla were recorded of which eight belonged to the fungal kingdom; others were one each from the rest of the kingdoms. Overall, 437 microbes observed were grouped into 46 different orders. Details of the checklist of microbes/pathogens on different bamboo species, name of the diseases, place of occurrence and the references with the author names are given in Table 1.

The different microbial associations with bamboo species were found in 12 phyla and 46 orders. The role of microbes of different phyla in causing various diseases could be analysed from the checklist. Some of the phyla had pathogens causing various diseases. The pathogens belonging to the phylum Ascomycota and Deuteromycota showed the highest record of the foliage disease incidence of about 40.99% and 24.12% respectively (Table 2). The incidence of culm diseases (26.25%) was highest by Basidiomycota. Coelomycota and Firmicutes showed occurrence of the fungal isolates and caused culm diseases. Nematodes and Oomycota caused only root and rhizome diseases. Pathogens belonging to Phylum Proteobacteria were responsible for causing the infection of seeds (66.66%) and among the viral diseases, foliage diseases were higher (75%). Myxomycetes are observed to cause the decay and deterioration of bamboo culms upto about 54.54%.

The pathogens belonging to the phylum Deuteromycota were highest (39.35%), followed by 26.85% in Ascomycota and 20.83% in Basidiomycota (Table 2). The rest can be categorised to a minor group ranging from 0.23–6.25 % occurrence of pathogens. Among them, the order Moniliales dominated among those infecting the foliages (22.75%), culm disease (25.36%), nursery disease (45.1%) and infection of seeds (77.94%). Order Polyporales (42.86%) is one of the dominating orders in root/rhizome infections,

Endogonales (41.3%) had the highest in occurrence on bamboos, the infection of inflorescence was highest by Ustilaginales (50%) and foliage and culm infections were mostly by order Sphaeriales and Sphaeropsidales (29.41%) (Tables 3 & 4).

The checklist helps in understanding fungal diversity in bamboo, the latest updates of diseases and their control measures for the various economically important bamboo species. Bamboo fungi have diverse roles - as saprobes, pathogens and also as symbionts (mycorrhizae). Based on the review, it has been observed that the incidence of fungal diseases and its relative richness are dominating when compared with incidence of bacterial and viral diseases. This study also provided evidence that fungal diversity in bamboo also varied to a large extent. It was also observed that the most common bamboo species affected was *Bambusa* species, followed by *Dendrocalamus* species. The rest of the bamboo species like *Arundinaria* sp., *Gigantochloa* sp., *Melalcaea* sp., *Ochlandra* sp., *Oxytenanthera* sp., *Phyllostachys* sp., *Schizostachyum* sp., *Thamnocalamus* sp., *Thyrsostachys* sp. and *Teinostachyum* sp. can be grouped into one category. Very few reports are available regarding control measures; mancozeb, bavistin, copper oxychloride and benlate are a few chemicals suggested to control nursery and plantation diseases. Seeds dressing were recommended with Thiram 75 WP or Captan WP for preventing seed borne diseases. For clump decay, taking quarantine measures like avoiding infection, cutting and burning the severely infected culms/clumps and planting disease resistant bamboo species were suggested (Tewari 1992; Mohanan 2006, 2008). The checklist reveals that there is more scope for further research on bamboo microbiology, especially in the field of bamboo disease management.

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Table 1. Annotated checklist of microbes in various bamboo species

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
	1). Phylum: Ascomycota				
	1). Order: Unknown Anamorphic fungi				
1	<i>Beltraniopsis</i> sp.	Infection of seeds	<i>Bambusa bambos</i> , <i>Dendrocalamus strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
	2). Order: Capnodiales				
2	<i>Phaeosaccardinula butleri</i>	-	<i>Dendrocalamus</i> sp.	-	Kapoor & Munjal (1968).
	3). Order: Clavicipetales				
3	<i>Claviceps</i> sp.	Smut on stem, on spikes and ergot, Nursery	<i>Bambusa</i> sp.	Hissar, Haryana, Gudalur, Tamil Nadu	Ramakrishnan & Ramakrishnan (1949); Tewari, (1992).
		Infections of inflorescence (Smut).	<i>Bambusa</i> sp.	-	Mohanan (2002).
4	<i>Epichloe bambusae</i>	Witches' broom, Bamboo stands	<i>B. vulgaris</i> , <i>Bambusa</i> sp.	Southern India	Sydow & Butler (1911).
		Fungi on culm	<i>Bambusa</i> sp.	Southern India, Jabalpur, Madhya Pradesh	Sydow et al. (1911); Jamaluddin (1992).
	4). Order: Diaporthales				
5	<i>Harknessia</i> sp.	Leaf spot, Nursery	<i>Bambusa</i> sp.	Kerala Agriculture University, Thrisur, Sulia, Karnataka	Remadevi et al. (2009).
	5). Order: Dothideales				
6	<i>Ascochyta arundinariae</i>	Leaf spot	<i>B. multiplex</i>	Kerala	Mohanan (1994, 2002, 2006).
7	<i>Ascochyta bambusinae</i>	Fungi on foliage	<i>Bambusa nana</i>	Poona, Maharashtra	Rao (1962).
		Leaf spot	<i>B. multiplex</i>	Kerala, Poona, Maharashtra	Mohanan (2002, 2006); Rao (1962).
8	<i>A. dendrocalami</i>	Leaf spot	<i>B. bambos</i> , <i>D. strictus</i> , <i>Thyrsostachys siamensis</i>	Kerala	Mohanan (1994, 2002, 2006).
9	<i>A. phaseolorum</i>	Leaf spot	<i>B. bambos</i> , <i>Bambusa</i> sp.	-	Rangaswami et al. (1970); Mohanan (2002).
		Leaf and branch blight	Bamboo	Kerala	Balakrishnan et al. (1988).
10	<i>Ascochyta</i> sp.	Infections of seeds	<i>D. strictus</i> , <i>B. bambos</i> , <i>B. tulda</i> , <i>T. siamensis</i>	Orissa	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
11	<i>Botryosphaeria berengeriana</i>	Dead shaft of bamboo	<i>B. arundinacea</i>	Maharashtra	Ramesh (1991).
12	<i>Botryosphaeria festucae</i>	Dead shaft of bamboo	<i>B. arundinacea</i>	Maharashtra	Ramesh (1991).
13	<i>Botryosphaeria subglobosa</i>	-	<i>Bambusa</i> sp.	Warangal	Venkateshwarlu & Reddy (1990).
14	<i>Balladyna butleri</i>	Fungi associated with fading leaves/spot on the leaves, Nursery	<i>Bambusa</i> sp.	Khasi Hills, Assam	Sydow et al. (1911).
		Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Mohanan (2002).
		Black leaf spot, Bamboo stands	Bamboo	Khasi Hills, Assam	Butler & Bisby (1960).
15	<i>Capnodium</i> sp.	Culm stain	<i>B. bambos</i> , <i>D. strictus</i>	-	Mohanan (2002).
		Sooty mould	<i>B. vulgaris</i> , <i>B. bambos</i> , <i>D. strictus</i> , <i>Ochlandra travancorica</i> , <i>O. ebracteata</i>	Kerala	Mohanan (1988, 2002).
16	<i>Cerodonthis aurea</i>	Fungi on foliage	<i>B. arundinacea</i>	Coorg, Mysore	Muthappa (1969).
		Leaf blight	<i>B. bambos</i>		Tewari (1992).
		Leaf spot, Bamboo stands	<i>B. bambos</i> , <i>D. strictus</i> , <i>Thyrsostachys</i> sp.	Kerala	Mohanan (2002).
17	<i>Cerodonthis</i> sp.	Fungi on foliage	<i>B. nutans</i> , <i>B. balcooa</i> , <i>B. vulgaris</i> , <i>D. strictus</i>	Coorg, Karnataka	Jamaluddin (1992); Khan et al. (1995).
18	<i>Coccidiella ochlandrae</i>	Leaf spot	<i>O. travancorica</i>	-	Mohanan (2002).
19	<i>Endoethella bambusae</i>	Leaf blight, Nursery	<i>B. spinosa</i>	Calcutta, West Bengal	Theissen & Sydow (1915a); Tewari (1992).
		Miscellaneous foliage and minor branch infections	<i>Bambusa blumeana</i>	-	Mohanan (2002).

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
	6). Order: Eurotiales				
20	<i>Penicillioopsis bambusae</i>	Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Mohanani (2002).
	7). Order: Helotiales				
21	<i>Belonopsis bambusae</i>	Decay and deterioration	<i>Bambusa</i> sp.	Darjeeling, West Bengal	Thind & Singh (1971).
22	<i>Belonopsis graminea</i>	Decay and deterioration	<i>Bambusa</i> sp.	Darjeeling, West Bengal	Kar & Maity (1971).
23	<i>Crocicreas bambusae</i>	Dead leaf sheath	<i>Bambusa</i> sp.	-	Sharma (1985).
24	<i>Dasycephalus kumaonicus</i> Not mentioned	Dead stems	<i>B. arundinacea</i>	Nainital, Uttar Pradesh	Sharma (1980).
25	<i>Niptera bambusae</i>	On dead twigs	Bamboo	Darjeeling, West Bengal	Sharma (1985).
26	<i>Niptera graminea</i>	On dead stems	<i>Bambusa</i> sp.	Darjeeling, West Bengal	Sharma (1985).
27	<i>Phialea bambusae</i>	Dead leaf sheath	<i>Bambusa</i> sp.	Dalhausie, Chamba, Himachal Pradesh	Sharma (1983).
28	<i>Pseudolachnea longiciliata</i>	Dead bamboo	<i>Bambusa</i> sp.	Kerala	Muthumary & Kalaivani (1987).
	8). Order: Hemisphaeriales				
29	<i>Asterinella hiugensis</i>	Black mildew	<i>Bambusa</i> sp.	-	Mohanani (2002).
	9). Order: Hypocreales				
30	<i>Aciculosporium</i> sp.	Witches' broom, Bamboo stands	Bamboo	-	Patil et al. (1980).
31	<i>Hypocrea dendrocalamae</i>	Dead leaves	<i>D. strictus</i>	Kolhapur, Maharashtra	Patil & Patil (1983).
32	<i>Hypocrella semiamplexa</i>	Smut on stem on spikes ergot, Nursery	<i>Bambusa</i> sp.	Darjeeling, West Bengal; Nilgiris, Tamil Nadu	Berkeley (1856); Tewari (1992).
		Infections of inflorescence (ergot).	<i>Bambusa</i> sp.	-	Mohanani (2002).
33	<i>Nectria vilis</i>	Fungi on culm	<i>Bambusa</i> sp.	Southern India	Petch (1926).
34	<i>Sphaerostilbe bambusae</i>	Infections on seeds	<i>B. indica</i>	Lucknow, Uttar Pradesh	Mathur (1936); Mohanani (2002).
		Decay and deterioration of bamboo culms	Bamboo	-	Mohanani (2002).
		Rhizome & root rot	<i>B. indica</i>	-	Mathur (1936).
35	<i>Sphaerostilbe hypoceroides</i>	Culm and root rot	Bamboo	Orissa	Tewari (1992).
		-	<i>Bambusa</i> sp.	-	Padhi (1954).
	10). Order: Hysteriales				
36	<i>Hysterographium purtenum</i>	Dead stem	<i>D. strictus</i>	Nasik, Maharashtra	Deoray & Ujjainkar (1993).
37	<i>Septogloeum</i> sp.	Leaf spot	<i>B. arundinacea</i>	Kerala	Mohanani (1988).
		Fungi on foliage	<i>B. nutans</i>	Orissa	Jamaluddin (1992).
	11). Order: Incertae sedis				
38	<i>Morrisiella bambusina</i>	Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	-	Butler & Bisby (1960); Browne (1968).
39	<i>Morrisiella indica</i>	Culm stain, Bamboo stands	<i>Bambusa</i> sp.	Assam	Saikia & Sarbhoy (1985a); Mohanani (2002).
		Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	-	Mohanani (2002).
40	<i>Sarocladium oryzae</i>	Fungi on foliage	<i>B. nutans</i>	Baleshwar, Bhubaneswar, Puri, Orissa	Jamaluddin et al. (1992).
		Bamboo blight, Bamboo stands	<i>B. nutans</i>	Kerala	Rahman & Khisha (1981); Jamaluddin (1992); Mohanani (2002, 2006, 2008).
		Sheath blight	<i>D. asper</i>	-	Jamaluddin (1992).
		Fungi on culm	<i>B. nutans</i>	Orissa	Jamaluddin et al. (1992).
41	<i>Sarocladium</i> sp.	Culm sheath spot	<i>B. vulgaris</i> , <i>D. brandisii</i> , <i>D. strictus</i>	-	Mohanani (2002).
	12). Order: Meliolales				
42	<i>Meliola bambusicola</i>	Fungi associated with fading leaves/ spot on the leaves	<i>Bambusa</i> sp.	-	Browne (1968).
		Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Hansford (1947); Mohanani (2002).

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
		Black mildew, Bamboo stands	<i>Bambusa</i> sp.	-	Butler & Bisby, (1960); Browne (1968); Mohanan (2002).
43	<i>Meliola</i> sp.	Black mildew	<i>O. travancorica</i> , <i>O. travancoricavarhirsuta</i> , <i>O. ebracteata</i> , <i>O. scriptoria</i> , <i>B. multiplex</i> , <i>B. vulgaris</i>	-	Mohanan (2002).
		Sooty mould	<i>B. arundinacea</i>	Kerala	Mohanan (1988).
	13). Order: Pezizales				
44	<i>Rhizostilbella hibisci</i>	Seedling rhizome rot, Nursery	<i>B. bambos</i>	Kerala	Mohanan (2006).
	14). Order: Magnaporthales				
45	<i>Pyricularia</i> sp.	Leaf spot	<i>Bambusa</i> sp.	-	Tewari (1992).
	15). Order: Pleosporales				
46	<i>Exserohilum halodes</i>	Leaf spot, Bamboo stands	<i>B. bambos</i>	Kerala	Mohanan (2006, 2008).
		Leaf blight, Nursery	Bamboo	-	Tewari (1992).
		Infections on seeds	<i>B. bambos</i> , <i>D. strictus</i>	-	Mohanan (2002).
		Leaf blight, Bamboo stands	Bamboo	-	Bhat et al. (1989).
47	<i>Exserohilum holmii</i>	Leaf spot	<i>B. bambos</i> , <i>P. pubescens</i>	Kerala	Mohanan (1994, 2002, 2006, 2008).
48	<i>Exserohilum rostratum</i>	Leaf spot, Nursery	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanan (2006, 2008).
		Leaf spot, Bamboo stands	<i>B. polymorpha</i> , <i>D. longispathus</i> , <i>D. strictus</i>	Kerala	Mohanan (1994, 2002, 2006, 2008).
		Leaf blight	<i>B. arundinacea</i> , <i>Phyllostachys pubescens</i>	Kerala	Tewari (1992).
		Infections of seeds	<i>B. bambos</i> , <i>B. nutans</i> , <i>D. strictus</i> , <i>T. siamensis</i> , <i>D. strictus</i>	-	Mohanan (2002).
49	<i>Exserohilum</i> sp.	Fungi on foliage	<i>O. scriptoria</i>	-	Jamaluddin (1992).
		Infections on seeds	<i>B. bambos</i>	-	Mohanan (2002).
		Leaf spot	<i>B. arundinacea</i>	Kerala	Mohanan (1988).
50	<i>Setosphaeria rostrata</i>	Leaf blight	<i>B. bambos</i>	-	Tewari (1992).
51	<i>Sporormiella intermedia</i>	Floating bamboo	Bamboo	-	Bilgrami & Rizwi (1977).
	16). Order: Sordariomycetes				
52	<i>Konradia bambusina</i>	Culm rot	Bamboo	-	Patil et al. (1980).
	17). Order: Sphaeriales				
53	<i>Chaetomium funicola</i>	Fungi on foliage	<i>Bambusa indica</i>	-	Gupta (1988).
54	<i>Chaetomium globosum</i>	Decay and deterioration of bamboo culms	<i>Phyllostachys reticulata</i> , Bamboo	-	Mohanan (2002).
55	<i>Chaetomium</i> sp.	Infection of seeds	<i>B. bambos</i> , <i>D. strictus</i> , <i>B. nutans</i> , <i>T. siamensis</i>	Kerala	Mohanan (1988).
			<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
56	<i>Diatrype chlorosarca</i>	Black stem spot & on dead culms, Bamboo stands	<i>Bambusa</i> sp.	Tellichery, Malabar, Kerala, Palghari, Maharashtra	Patil et al. (1980); Sydow et al. (1911).
		Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Sydow et al. (1911).
57	<i>Glomerella cingulata</i>	Leaf spot	<i>B. arundinacea</i> , <i>D. strictus</i> , <i>D. longispathus</i> , <i>B. vulgaris</i>	Kerala	Mohanan (1988).
		Culm sheath rot, Bamboo stands	<i>B. arundinacea</i> , <i>B. vulgaris</i> , <i>D. strictus</i>	Kerala	Mohanan (1988).
		Fungi on culm	<i>B. arundinacea</i> , <i>B. vulgaris</i> , <i>D. longispathus</i> , <i>D. strictus</i>	-	Jamaluddin (1992).
58	<i>Hypoxyton bambusae</i>	Decay fungi	<i>Bambusa bambos</i>	Jabalpur, Madhya Pradesh	Gupta & Rajak (1987).
59	<i>Hypoxyton culmorum</i>	Decay fungi	<i>D. strictus</i>	Jabalpur, Madhya Pradesh	Gupta & Rajak (1987).
60	<i>Hypoxyton fuscopurpureum</i>	Fungi on culm (Culm rot).	<i>Bambusa</i> sp.	Balsar, Bombay	Bagchee (1954).
		Decay fungi	<i>Bambusa</i> sp.	-	Sydow et al. (1911); Bagchee & Singh (1954).

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
61	<i>Hypoxylon mummularium</i>	Decay fungi	<i>Bambusa</i> sp.	Mahabaleshwar, Maharashtra	Narendra& Rao (1972).
62	<i>Hypoxylon perforatum</i>	Decay fungi	<i>Bambusa</i> sp.	Nangki Hills, Assam	Berkeley (1856).
63	<i>Hypoxylon pithcolobiae</i>	Decay fungi	<i>B. bambos</i>	Jabalpur, Madhya Pradesh	Gupta & Rajak (1987).
64	<i>Hypoxylon ruviginosum</i>	Canker (White pocket rot), Bamboo stands	Bamboo	Dhule, Maharashtra	Anonymous (1950); Bagchee & Singh (1954).
		Dead stem	<i>D. strictus</i>	-	Deoray &Ujjainkar(1994).
		Fungi on culm and decay fungi	<i>Bambusa</i> sp.	-	Bagchee & Singh (1954).
65	<i>Xylaria</i> sp.	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Mohan (2002).
66	<i>Amphisphaeria khandalensis</i>	-	<i>Bambusa</i> sp.	-	Theissen (1911).
67	<i>Anthostomella bambusae</i>	Black culm & Dead stems of bamboo, Bamboo stands	Bamboo, <i>B. arundinacea</i>	Nangki Hills, Assam	Leveille (1845), Patil et al. (1980).
		Miscellaneous foliage and minor branch infections	<i>Bambusa blumeana</i> , <i>Bambusa</i> sp.	-	Mohan (2002).
		Decay and deterioration of bamboo culms	<i>B. bambos</i>	-	Mohan (2002).
68	<i>Apiospora indica</i>	Fungi on culm	<i>Bambusa</i> sp.	Wayanad, Kerala, Dehradun, Uttar Pradesh, Nangki Hills, Assam	Sydow&Butler (1916); Jamaluddin (1992).
		Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Butler & Bisby(1931).
		Culm rot	Bamboo	-	Patil et al. (1980).
		Culm stain	<i>Bambusa</i> sp.	-	Mohan (2002).
69	<i>Apiospora montagnei</i>	Fungi on culms	<i>B. arundinacea</i> , <i>Arundinaria</i> sp.	Darjeeling, West Bengal, Mysore	Reddy, (1969); Narendra& Rao (1974).
70	<i>Apiospora</i> sp.	Culm staining & die-back	<i>B. vulgaris</i> , <i>D. longispathus</i>	-	Mohan (2002).
71	<i>Astrocystis mirabilis</i>	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp., <i>Phyllostachys</i> sp.	Bulsar, Bombay, Maharashtra, Tellicherry, Kerala	Mohan (2002).
		Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Sydow et al. (1911); Butler & Bisby (1931); Mohan (2002).
72	<i>Chaetosphaerulinabambusae</i>	-	Bamboo	-	Pandey & Rao (1997).
73	<i>Clypeosphaeria crenulatum</i>	Decay and deterioration of bamboo culms and dead stem of bamboo	<i>Bambusa</i> sp.	Nangki Mountains, Assam	Berkeley (1856).
74	<i>Daldinia concentrica</i>	Blotchy white rot, Bamboo stands	Bamboo	-	Patil et al. (1980).
75	<i>Daldinia eschscholtzii</i>	Blotchy white rot, Bamboo stands	<i>Bambusa</i> sp.	Some part of India	Anonymous (1950); Patil et al. (1980).
76	<i>Daldinia</i> sp.	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Mohan (2002).
77	<i>Didymella pseudosasae</i>	-	Bamboo	Madhya Pradesh, Tamil Nadu and Kerala	Rao and Verghese (1988).
78	<i>Didymella</i> sp.	Leaf stripping	<i>Bambusa nutans</i>	Nainital, Uttar Pradesh, North East India	Borah et al. (1998a).
79	<i>Didymosphaeria bambusicola</i>	Dead ligules of Bamboo	<i>Bambusa</i> sp.	-	Ramakrishnan (1956).
80	<i>Eriosphaeria calospora</i>	Black sheath spot	<i>Bambusa</i> sp.	Dehradun, Uttar Pradesh	Butler & Bisby(1931); Patil et al. (1980).
81	<i>Kostermansinda nagra</i>	Dead bamboo culms	Bamboo	Tallsat, Sawantwadi, Maharashtra	Karandikar & Patwardhan (1986).
82	<i>Leptosphaeria bambusae</i>	Fungi on foliage	Bamboo	Varanasi, Uttar Pradesh	Roy et al. (1958).
83	<i>Leptosphaeria graminium</i>	Leaf blight, Nursery	<i>Phyllostachys</i> sp., <i>Dendrocalamus</i> sp.	Shillong, Assam	Panwar et al. (1973); Tewari (1992).
		Fungi on foliage	<i>Phyllostachys</i> sp., <i>Dendrocalamus</i> sp.	-	Panwar & Gehlot (1973); Jamaluddin (1992).
		Miscellaneous foliage and minor branch infections	<i>Dendrocalamus</i> sp.	-	Mohan (2002).
84	<i>Metasphaeria</i> sp.	Stems	<i>Dendrocalamus</i> sp.	Torna Fort, Poona, Maharashtra	Subhedar& Rao (1985).

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85	<i>Mycosphaerella bambusina</i>	Fungi on foliage	<i>Bambusa</i> sp.	Bhubaneswar, Orissa	Jamaluddin (1992).
		Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	-	Butler & Bisby(1960); Browne (1968); Mohanan (2002).
86	<i>OHLERIA phyllanthicola</i>	-	<i>B. arundinacea</i>	Shandol, Madhya Pradesh	Patel et al. (1949).
87	<i>Phyllachora bambusae</i>	Leaf blight, Nursery	<i>B. arundinacea, B. bambos</i>	Kanouth, Kerala; Mahabaleshwar, Maharashtra	Sydow et al. (1911); Theissen & Sydow (1915b); Hosagoudar (1987).
		Leaf spot, Nursery	<i>B. bambos, Bambusa</i> sp.	Mahabaleshwar, Maharashtra; Ganapati Pula, Maharashtra; Kanouth, Kerala	Sydow et al. (1911); Theissen & Sydow (1915b); Ananthanarayanan (1964); Parndekar, (1964); Awati & Kulkarni(1972).
		Tar spot, Bamboo stands	<i>Bambusa</i> sp., <i>B. bambos</i>	Kerala	Mohanan (2006).
		Fungi on foliage	<i>B. arundinacea, B. bambos, Bambusa</i> sp.	-	Sydow et al. (1911); Theissen & Sydow (1915a); Ananthanarayanan (1964); Parndekar (1964); Subramanian & Vittal (1974).
88	<i>Phyllachora bambusina</i>	Leaf spot	<i>Chimonobambusa falcata</i>	Chakrata Hills, Uttar Pradesh	Khan et al. (1992).
		Leaf blight, Nursery	<i>Bambusa</i> sp.		Tewari (1992).
89	<i>Phyllachora dendrocalami</i>	Leaf blight, Nursery	<i>D. strictus, B. vulgaris</i>	Panhala, Mahabaleshwar and Ganapati Pula, Maharashtra	Tewari (1992).
		Leaf spot, Nursery	<i>D. strictus, B. vulgaris</i>	Mahabaleshwar, Ganapati, Maharashtra	Awati & Kulkarni (1972).
		Tar spot, Bamboo stands	<i>D. strictus</i>	Kerala	Mohanan (2002, 2006).
90	<i>Phyllachora graminis</i>	Leaf blight, Nursery	<i>Arundinaria</i> sp.	Poona, Maharashtra	Tewari (1992).
		Leaf spot, Nursery	<i>Arundinaria</i> sp.	Poona, Maharashtra	Ananthanarayanan (1964).
		Tar spot, Bamboo stands	<i>Arundinaria</i> sp., <i>Phyllostachys</i> sp.	Kerala	Mohanan (2002, 2006).
		Fungi on foliage	<i>Arundinaria</i> sp., <i>Bambusa</i> sp.	-	Ananthanarayanan (1964); Jamaluddin (1992).
91	<i>Phyllachora ischaemi</i>	Leaf spot	<i>B. balcooa</i>	Jorhat, Assam	Borah et al. (1998b).
		Tar spot, Bamboo stands	<i>B. bambos</i>	Kerala	Borah et al. (1998b); Mohanan (2002, 2006).
92	<i>Phyllachora longinaviculata</i>	Tar spot, Bamboo stands	<i>B. bambos, D. strictus, Phyllostachys ritcheyi</i>	Kerala	Mohanan (2002, 2006).
93	<i>Phyllachora malabarensis</i>	Leaf spot, Nursery	<i>Bambusa</i> sp.	Wayanad, Kerala	Sydow et al. (1911); Butler & Bisby (1960).
		Tar spot, Bamboo stands	<i>Bambusa</i> sp., <i>Arundinaria</i> sp., <i>B. bambos, B. vulgaris, Pritcheyi, D. strictus, O. travancorica</i>	Kerala	Dayan (1988); Mohanan (2002, 2006).
		Fungi on foliage	<i>Bambusa</i> sp.	Wayanad, Kerala	Butler & Bisby(1960).
94	<i>Phyllachora shiraina</i>	Leaf blight, Nursery	<i>Arundinaria</i> sp., <i>B. tulda</i>	Bombay, Maharashtra; Jorhat, Assam	Tewari (1992); Borah et al. (1998a).
		Leaf spot, Nursery	<i>Arundinaria</i> sp., <i>Bambusa</i> sp.	Wahjain, Assam; Bombay, Maharashtra	Uppal (1955).
		Leaf spot	<i>B. tulda</i>	-	Tewari (1992); Borah et al. (1998b).
		Tar spot, Bamboo stands	<i>Arundinaria</i> sp., <i>B. bambos, B. vulgaris, Pritcheyi, D. strictus, O. travancorica</i>	-	Dayan (1988); Mohanan (2002).
		Fungi on foliage	<i>Arundinaria</i> sp., <i>Bambusa</i> sp., <i>B. arundinacea, D. strictus, Phyllostachys</i> sp.	-	Sydow et al. (1911); Uppal et al. (1935); Uppal (1955); Rangaswami et al., (1970); Bakshi et al. (1972); Jamaluddin (1992).
		Leaf spot, Bamboo stands	Bamboo	Banaras Hindu University Campus	Thirumalachar & Pavgi (1950).
95	<i>Phyllachora</i> sp.	Leaf blight, Nursery	<i>Phyllostachys</i> sp.	Vellambadugal, Dehradun, Uttar Pradesh	Tewari (1992).

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		Tar spot, Bamboo stand	<i>B. bambos</i> , <i>Bambusa</i> sp.	Kerala	Mohanani (2002, 2006).
		Fungi on foliage	<i>Bambusa</i> sp., <i>B. arundinacea</i> , <i>D. strictus</i> , <i>Phyllostachys</i> sp.	Vellambadugal, Tamil Nadu, Dehradun, Uttar Pradesh, Bhubaneswar, Orissa	Rangaswami et al. (1970); Bakshi et al. (1972); Jamaluddin (1992).
		Leaf spot, Bamboo stands	Bamboo	Banara Hindu University Campus	Thirumalachar & Pavgi (1950).
		Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	-	Kar & Maity (1971).
		Leaf spot	<i>B. arundinacea</i> , <i>D. strictus</i>	Kerala	Mohanani (1988).
96	<i>Pringsheimia panchmarhii</i>	Fungi on culm and dried twigs	<i>D. strictus</i>	Pachmarhi, Madhya Pradesh	Panwar et al. (1973).
97	<i>Pseudomassaria chondrospora</i>	Twigs of bamboo	<i>Bambusa</i> sp.	Dibrugarh, Assam	Agarwal & Sarbhoy (1983).
		Tar spot, Bamboo stands	<i>Bambusa</i> sp., <i>Bambusa bambos</i>	Kerala	Mohanani (2002, 2006).
		Fungi on foliage	<i>B. arundinacea</i> , <i>B. bambos</i> , <i>Bambusa</i> sp.	-	Sydow et al. (1911); Theissen & Sydow (1915a); Ananthanarayanan (1964); Parndekar, (1964); Subramanian & Vittal(1974); Bhind et al. (1987).
98	<i>Rosellinia bonaerensis</i>	Fungi on culm	<i>Arundinaria falcata</i>	Nainital, Uttar Pradesh	Padwick (1945).
99	<i>Rosellinia congesta</i>	Decay fungi	<i>Bambusa</i> sp.	Mallickpur, West Bengal	Pandey & Rao (1995).
		Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	-	Kar & Maity (1971); Mohanani (2002).
		Fungi on foliage	<i>Bambusa</i> sp.	Jabalpur, Madhya Pradesh	Jamaluddin (1992).
100	<i>Rosellinia indica</i>	Dead stem	<i>D. strictus</i>	-	Deoray & Ujjainkar(1994).
101	<i>Rosellinia spacidea</i>	Decay fungi	<i>Thamnocalamus spathiflorus</i> (<i>Arundinaria spathiflora</i>).	India	Gamble (1899).
102	<i>Rosellinia subinata</i>	Dead stem	<i>D. strictus</i>	-	Deoray & Ujjainkar(1994).
103	<i>Rosenscheldiella ochlandrae</i>	Leaf spot	<i>O. travancorica</i>	-	Mohanani (2002).
104	<i>Sphaerella bambusina</i>	Brown leaf spot, Bamboo stands	<i>Bambusa</i> sp.	Wahjain, Assam	Sydow et al. (1911); Patil et al. (1980).
105	<i>Valsaria bambusae</i>	Culm stain	<i>Bambusa</i> sp.	Dharwar, Karnataka and Dhule, Maharashtra	Kapoor & Gill (1961); Deoray & Ujjainkar (1994); Mohanani (2002).
106	<i>Trabutia</i> sp.	-	<i>Bambusa</i> sp.	-	Rangaswami et al. (1970).
107	<i>Xylaria timorensis</i>	-	Bamboo	-	Lloyd (1898–1925).
	18). Order: Sphaeropsidales				
108	<i>Dothiodella bambusae</i>	Fungi on culm	<i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992).
109	<i>Petrakomyces bambusae</i>	Leaf spot	<i>Thyrostachys</i> sp.	-	Mohanani (2002).
110	<i>Petrakomyces indicus</i>	Leaf spot	<i>Arundinaria</i> sp., <i>B. bambos</i> , <i>D. strictus</i> , <i>O. ebracteata</i> , <i>O. scriptoria</i>	-	Mohanani (2002).
		Fungi on foliage	<i>Bambusa</i> sp.	Walayer, Tamil Nadu	Subramanian & Ramakrishnan (1953); Rangaswami et al. (1970).
111	<i>Petrakomyces</i> sp.	Leaf spot	<i>B. arundinacea</i>	Kerala	Mohanani (1988).
		Fungi on foliage	<i>B. arundinacea</i>		Jamaluddin (1992).
112	<i>Phyllosticta bambusina</i>	Fungi on foliage	<i>Bambusa</i> sp.	Anekal, Karnataka	Rangaswami et al. (1970).
113	<i>Pseudorobillarda bambusae</i>	Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	-	Nagraj et al. (1972); Mohanani (2002).
	19). Order: Taphrinales				
114	<i>Taphrina deformans</i>	Abnormal defoliation and withered culms, Miscellaneous foliage and minor branch infections	<i>B. vulgaris</i>	Kerala	Balakrishnan et al. (1988); Mohanani (2002).
		Fungi on foliage	<i>B. tulda</i>	-	Roy (1966).
	20). Order: Xylariales				
115	<i>Nodulisporium</i> sp.	Infections of seeds	<i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992).

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116	<i>Pestalotiopsis guepinii</i>	Leaf spot, Nursery	<i>B. balcooa</i> , <i>D. asper</i>	Bangalore, Koppa, Karnataka	Remadevi et al. (2009).
	2). Phylum: Basidiomycota				
117	21). Order: Agaricales				
118	<i>Botryobasidium salmonicolor</i> (=Pellicularia salmonicolor).	Thread blight, Bamboo stands	<i>B. bambos</i> , <i>B. balcooa</i> , <i>B. polymorpha</i> , <i>B. vulgaris</i> , <i>B. multiplex</i> , <i>B. tulda</i> , <i>B. tuldoidea</i> , <i>D. brandisii</i> , <i>D. longispithus</i> , <i>O. travancorica</i> , <i>O. travancorica</i> var. <i>hirsuta</i> , <i>O. scriptoria</i> , <i>O. erbracteata</i>	-	Mohanani (2002, 2008).
119	<i>Corticium adnatum</i>	Decay and deterioration of bamboo culm	<i>Bambusa</i> sp.	Southern India	Rehill & Bakshi (1965).
		Burnt bamboo	Bamboo	-	Rehill & Bakshi (1965).
120	<i>Corticium koleroga</i> (=Pellicularia koleroga).	Thread blight, Bamboo stands	<i>D. strictus</i> , <i>Ochlandra</i> sp.	Nilambur, Kollathirumedu, Ezhattumugam, Palappilly, Irumpupalam, Thirunelly, Noolpuzha, Muthanga, Anamari, Nadukani, Mundoor, Kerala	Browne (1968); Mohanani (2002).
		Fungi on foliage	<i>Dendrocalamus</i> sp.	-	Browne (1968).
		Fungi on culm	<i>Dendrocalamus</i> sp.	-	Browne (1968).
121	<i>Craterellus comucopioides</i>	Fungi on culm	<i>Bambusa</i> sp., <i>B. arundinacea</i>	Bhubaneswar, Orissa, Calcutta, West Bengal	Banerjee (1947); Jamaluddin (1992).
		Decay and deterioration of bamboo culms	<i>B. bambos</i>	-	Mohanani (2002).
122	<i>Flammula dilepis</i>	White root rot, Bamboo stands	Bamboo	Kolkata West Bengal	Patil et al. (1980).
123	<i>Marasmius androsaceus</i>	Fallen bamboo on the ground	Bamboo	-	Hennings (1901).
124	<i>Pellicularia koleroga</i>	Fungi on foliage	<i>Dendrocalamus</i> sp.	-	Rogers (1943).
125	<i>Pellicularia (Botryobasidium) salamonicolor</i>	Leaf and culm blight	<i>Ochlandra</i> sp.	Periya, Vazhachal, Kollathirumedu, Pachakanam, ?Kottur, Kerala	Balakrishnan et al. (1988).
126	<i>Pulveroboletus paravulus</i>	Dead bamboo stumps	Bamboo	-	Natarajan & Purushottamma (1988).
127	<i>Schizophyllum commune</i>	Mottle sap rot	Bamboo	Kolkata West Bengal	Patil et al. (1980).
		Decay fungi	Stored bamboo, <i>D. strictus</i> and freshly decaying logs and timber of <i>B. arundinacea</i>	Jabalpur, Balaghat, Madhya Pradesh	Banerjee (1947)
128	<i>Stereum dimiticum</i>	-	Bamboo	-	Rehill & Bakshi (1966).
129	<i>Stereum percome</i>	Sap and heart fibrous rot Bamboo stands	Bamboo	-	Patil et al. (1980).
		Decay and deterioration of bamboo culm	<i>Bambusa</i> sp.	-	Banerjee & Ghosh (1942).
130	<i>Thelephora palmata</i>	Decay and deterioration of bamboo culm	<i>B. arundinacea</i>	Kolkata, West Bengal	Banerjee (1947); Berkeley (1856).
	22). Order: Agonomycetales				
131	<i>Pteronidium minor</i>	Leaf stripping	<i>Bambusa balcooa</i>	North- East India	Borah et al. (1998a).
132	<i>Rhizoctonia solani</i>	Damping- off, Nursery	<i>Bambusa bambos</i>	Kerala	Mohanani (2006).
		Seedling stem infection, Nursery	<i>Bambusa bambos</i>	-	Tewari (1992).
133	<i>Rhizoctonia solani</i> state of <i>Thanatephorus cucumeris</i>	Damping-off, Nursery	<i>B. arundinacea</i> , <i>D. strictus</i>	Tamil Nadu	Mohanani (1988); Tewari (1992).
		Seedling spear rot, Nursery	<i>Bambusa bambos</i> , <i>D. strictus</i>	-	Mohanani (2002).
		Seedling stem infection, Nursery	<i>B. arundinacea</i>	Kerala	Mohanani (1988).
		Seedling wilt, Nursery	<i>Bambusa bambos</i> , <i>D. strictus</i>	-	Tewari (1992).

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		Web blight, Nursery	<i>B. bambos</i> , <i>D. brandisii</i> , <i>Dsrictus</i> , <i>T. siamensis</i> , <i>B. blumeana</i>	Kerala	Mohanani (1994, 2000, 2006, 2008).
		Culm, Bamboo stands	<i>Barundinaria</i>	-	Jamaluddin (1992).
134	<i>Rhizoctonia</i> sp.	Rot of emerging culm, Bamboo stands	<i>O. travancorica</i> , <i>O. scriptora</i>	Nilambur, Koliathirumedu, Ezhattumugam, Palappilly, Irumppalam, Muntoor, Nilambur, Nadukani, Kerala	Mohanani (2002, 2006).
	23). Order: Atheliales				
135	<i>Mycelia sterilia</i>	Infections of seeds	<i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992).
136	<i>Sclerotium rolfsii</i>	Culm rot	Bamboo	-	Patil et al. (1980).
	24). Order: Nidulariales				
137	<i>Cyathus limbatus</i>	Decay and deterioration of culms	Bamboo	Varanasi, Uttar Pradesh	Khare (1976).
138	<i>Cyathus striatus</i>	Decay and deterioration of culms	<i>Bambusa</i> sp.	Kolkata, West Bengal	Banerjee & Ghosh (1942); Mohanani (2002).
		Dead bamboo	Bamboo	-	Roy (1948).
	25). Order: Phallales				
139	<i>Clathrus delicatus</i>	Decay and deterioration of culms	<i>Bambusa</i> sp.	Kolkata, West Bengal	Roy (1948).
	26). Order: Polyporales				
140	<i>Amauroderma rugosus</i>	Fungi on culm	<i>Bambusa</i> sp.	Kolkata, West Bengal, Lokra Hills, Assam	Banerjee & Ghosh (1942); Jamaluddin (1992).
		Decay and deterioration of bamboo culms	<i>B. bambos</i> , <i>D. strictus</i>	West Bengal	Banerjee & Ghosh (1942); Bakshi (1976).
141	<i>Amyloporus campbelli</i>	Rhizome & root rot, Bamboo stands	Bamboo, <i>B. bambos</i> , <i>D.</i> <i>strictus</i> , <i>T. oliveri</i> , <i>B. bambos</i>	Jabalpur, Madhya Pradesh	Tahir et al. (1992); Mohanani (2008).
		Decay and deteriorating Bamboo culms	<i>D. longispathus</i> , <i>D. strictus</i> , <i>B. bambos</i> , <i>Thyrsostachys</i> <i>oliveri</i>	-	Tahir et al. (1992); Mohanani (2002).
		Root and rhizome rot	<i>D. strictus</i>	-	
142	<i>Daedalea flavida</i>	White spongy rot, Bamboo stands	Bamboo	Kolkata, West Bengal	Patil et al. (1980).
		Decay fungi	<i>Bambusa</i> sp.	Wide occurrence	Bakshi (1971).
		Decay and Deterioration of Bamboo culms	<i>B. bambos</i> , <i>D. strictus</i> , <i>T.</i> <i>oliveri</i> , <i>D. hamiltonii</i> , <i>B.</i> <i>vulgaris</i>	-	Mohanani (2002).
		Logs and Posts	<i>B. arundinacea</i>	-	Lloyd (1898–1925); Bose (1919–1928); Banerjee & Ghosh (1942).
143	<i>Daedalea quercina</i>	Dead wood and split logs	<i>B. arundinacea</i>	-	Banerjee (1947).
144	<i>Flabellospora crassa</i>	Miscellaneous foliage and minor branch infections, Bamboo stands	<i>Bambusa</i> sp.	-	Mohanani (2002).
145	<i>Fomes durus</i>	Stump rot	Bamboo	Kolkata, West Bengal	Banerjee (1947); Tewari (1992).
146	<i>Fomes lividis</i>	White fibrous rot, Bamboo stands	Bamboo	India	Patil et al. (1980).
		Decay fungi	<i>Bambusa</i> sp.	West Bengal	Anonymous (1950).
		Fungi on root/ rhizome	<i>Bambusa</i> sp.	-	Shukla et al. (1988).
147	<i>Fomes hypoplastus</i>	-	Bamboo, <i>B. arundinacea</i>	Howrah, West Bengal	Banerjee (1947); Tewari (1992).
148	<i>Fomes pectinatus</i>	Decay fungi	<i>Bambusa</i> sp.	-	Anonymous (1945).
149	<i>Ganoderma applanatum</i>	Mottled spongy rot, bamboo stand	Bamboo	-	Patil et al. (1980).
150	<i>Ganoderma lucidum</i>	Spongy root and beet rot, Bamboo stand	Bamboo	India	Patil et al. (1980).
		Shrinking and withering of basal culms, Bamboo stands	<i>B. arundinacea</i>	Kerala	Balakrishnan et al. (1988).

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
		Decay of rhizome root and basal culm, Bamboo stands	Bamboo, <i>B. bambos</i> , <i>Melacona baccifera</i> , <i>T. oliveri</i> , <i>B. bambos</i>	Kerala	Mohanan (2002).
		Fungi on root/ rhizome	<i>Bambusa</i> sp., <i>B. nutans</i> , <i>D. strictus</i>	Uttar Pradesh and West Bengal	Banerjee & Ghosh (1942); Bakshi (1957); Spaulding (1961); Jamaluddin (1992).
		Dead roots and barks of stems and dead logs	<i>Bambusa</i> sp.	-	Anonymous (1950).
151	<i>Hexagonia apiaria</i>	Culm rot	<i>B. bambos</i>	Kolkata, West Bengal	Banerjee (1947); Tewari (1992).
152	<i>Irpex flavus</i>	On logs and dead branches	Bamboo	All over India	Tewari (1992).
		Decay fungi	<i>Bambusa</i> sp.	-	Bakshi (1971).
153	<i>Irpex flavus</i> var <i>arbicularia</i>	Dead stumps	<i>B. arundinacea</i>	-	Banerjee (1947).
154	<i>Lacelina graminicola</i>	Dead stem	Bamboo	-	Subramanian (1952).
155	<i>Lenzites adusta</i>	Decay fungi	Bamboo	West Bengal	Bakshi (1971).
156	<i>Mahabalella acutisetosa</i>	-	<i>B. arundinacea</i>	-	Sutton & Patel (1966).
157	<i>Merulius eurocephalus</i>	Fungi on root/rhizome	<i>B. bambos</i> , <i>B. arundinacea</i> , <i>B. flabellifer</i> , <i>T. oliveri</i>	Hoogly, Kolkata, West Bengal, Nainital, Haldwani, Uttar Pradesh	Bose (1919-1928); Mitter & Tandon (1932); Banerjee, (1947).
158	<i>Merulius similis</i>	White stump rot, Bamboo stands	Bamboo	Hooghly District, West Bengal	Patil et al. (1980).
		Rhizome & root rot, Bamboo stands	<i>Bambusa</i> sp., <i>B. bambos</i> , <i>D. stricuts</i> , <i>T. oliveri</i> , <i>B. bambos</i>	Kerala	Mohanan (2008).
		Exposed bamboo root	Bamboo, <i>B. arundinacea</i>	-	Bose (1919-1928); Banerjee (1947).
		Culm decay, Bamboo stands	<i>B. bambos</i>	-	Bose (1919-1928); Mitter & Tandon (1932); Banerjee & Bakshi (1945).
159	<i>Merulius</i> sp.	Decay fungi	Bamboo	Bhubaneshwar, Orissa	Jamaluddin (1992).
160	<i>Polyporus anthelminticus</i>	Fungi on root/ rhizome	<i>B. arundinacea</i>	Calcutta, West Bengal	Banerjee (1947).
161	<i>Polyporus aphyllophorales</i> in conjunction with <i>Poria</i> & <i>Rhizoctonia</i> sp.	Decay and Deterioration of Bamboo culms	<i>D. strictus</i>	-	Sheikh et al. (1978).
162	<i>Polyporus bambusicola</i>	White rot, Bamboo stands	Bamboo	Botanic Garden, Saharanpur, Uttar Pradesh	Patil et al. (1980).
		Decay of rhizome root and basal culm, Bamboo stands	<i>M. baccifera</i>	-	Hennings (1901).
163	<i>Polyporus durus</i>	Brown pocket rot, Bamboo stands	Bamboo	-	Patil et al. (1980).
		Decay fungi	Bamboo, <i>B. bambos</i>	-	Banerjee & Ghosh (1942); Bakshi (1976).
164	<i>Polyporus friabilis</i>	White spongy rot, Bamboo stands	Bamboo	Kolkata, West Bengal	Patil et al. (1980).
		Decay fungi	<i>B. bambos</i>	-	Banerjee & Ghosh (1942); Bakshi (1971, 1976).
		Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Banerjee & Ghosh (1942).
		In the clumps	<i>B. arundinacea</i>	-	Banerjee & Ghosh (1942).
165	<i>Polyporus gilvus</i>	Brownish pocket rot, Bamboo stands	Bamboo	-	Patil et al. (1980).
		Decay fungi	Bamboo	-	Bakshi (1971).
166	<i>Polyporus ostreiformis</i>	Fibrous rot, Bamboo stands	Bamboo	-	Patil et al. (1980).
167	<i>Polyporus rubidus</i>	Brown rot, Bamboo stands	Bamboo, <i>B. arundinacea</i>	Calcutta, West Bengal	Currey (1874); Lloyd (1898-1925); Patil et al. (1980).
168	<i>Polyporus sanguineus</i>	Decay and Deterioration of Bamboo culms	Bamboo		Mohanan (2002).
169	<i>Polyporus zonalis</i>	Decay and Deterioration of Bamboo culms	Bamboo	Dehradun and West Bengal, Nainital	Mitter & Tandon(1932); Bakshi et al. (1963).
		Fungi on root/rhizome (White pocket rot).	<i>Bambusa</i> sp.	-	Mitter & Tandon(1932); Bakshi et al. (1963).
170	<i>Polystictus fibula</i>	On dead bamboo roots	Bamboo	Kolkata	Tewari (1992).

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
		Root of dead bamboo	Bamboo	-	Bose (1919-1928); Bresadola (1920).
171	<i>Polystictus hirsutus</i>	Spongy sap rot, Bamboo stand	Bamboo	-	Patil et al. (1980).
172	<i>Polystictus sanguineus</i>	Ochraceous pocket rot, Bamboo stand	Bamboo	Assam	Patil et al. (1980).
173	<i>Polystictus steinheilianus</i>	White stringy rot, Bamboo stands	Bamboo	Kolkata, West Bengal	Patil et al. (1980).
		Decay fungi	<i>Bambusa</i> sp., <i>B. bambos</i>	-	Banerjee (1947); Anonymous (1950).
		Decay and deterioration of bamboo culms	Bamboo	-	Mohanani (2002).
174	<i>Polystictus perennis</i>	Clumps	<i>B. arundinacea</i>	-	Banerjee (1947).
175	<i>Polystictus oblecteus</i>	Humus in clumps	<i>B. arundinacea</i>	-	Banerjee (1947); Bose (1946).
176	<i>Polystictus cinnabarinus</i>	Rotten bamboo	Bamboo	-	Berkeley (1856); Currey (1874); Banerjee (1947).
177	<i>Poria diversispora</i>	Decay of rhizome root and basal culm	Bamboo, <i>B. arundinacea</i>	Calcutta, West Bengal	Bose (1919-1928); Banerjee (1947).
178	<i>Poria rhizomorpha</i>	Rhizome & root rot, Bamboo stand	<i>Melacona bambusoides</i>	Northern Bengal and northern Assam	Bagchee (1953); Spaulding (1961).
		Decay of rhizome root and basal culm, Bamboo stands	<i>M. baccifera</i>	-	Kar & Maity (1971).
		Fungi on culm	<i>M. baccifera</i>	Northern Bengal and Assam	Bagchee (1953).
179	<i>Trametes cingulata</i>	Spongy fibrous rot, Bamboo stands	Bamboo	Nainital, Uttar Pradesh	Patil et al. (1980).
		Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Anonymous (1950).
180	<i>Trametes corrugata</i>	Decay fungi	<i>Bambusa</i> sp.	West Bengal	Banerjee & Ghosh (1942).
		Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	--	Banerjee & Ghosh (1942).
181	<i>Trametes lactinea</i>	Decay and deterioration of bamboo culms	Bamboo	-	Mohanani (2002).
182	<i>Trametes persoonii</i>	Decay and deterioration of bamboo culms	<i>B. bambos</i> , <i>B. arundinacea</i>	Kolkata, West Bengal	Banerjee (1947); Anonymous (1950).
	27). Order: Tremellales			-	
183	<i>Dacryopinax spathularia</i>	Decay and deterioration of bamboo culms	<i>B. bambos</i>	-	Banerjee (1947).
184	<i>Auricularia auricula</i>	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Banerjee & Ghosh (1942); Mohanani (2002).
185	<i>Dacryopinax spathularia</i> (<i>Guepinia spathularia</i>).	Fungi on culm	<i>B. arundinacea</i>	Kolkata, West Bengal	Banerjee (1947).
186	<i>Guepinia ramosa</i>	Root infections	Bamboo	Kolkata, West Bengal	Tewari (1992).
		-	<i>B. arundinacea</i>	-	Banerjee (1947).
187	<i>Hirneola auricula</i>	Dead branches	<i>Bambusa</i> sp.	-	Parandekar (1964).
188	<i>Tremella fuciformis</i>	Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Banerjee & Ghosh (1942); Mohanani (2002).
189	<i>Tremellodon gelatinatum</i>	Clump rot	Bamboo	Kolkata, West Bengal	Tewari (1992).
	28). Order: Uredinales				
190	<i>Dasturella bambusina</i>	Foliage diseases, Nursery	<i>B. nutans.</i> , <i>Bambusa vulgaris</i>	Rajasthan	Tyagi et al. (1984); Khan et al. (1995).
		Leaf rust, Bamboo stands	<i>Bambusa</i> sp.	Mumbai, Maharashtra	Mundkur & Kheswala (1943). Patel et al. (1949); Nema & Mishra (1965); Mohanani (2002).
		Fungi on foliage	<i>Bambusa</i> sp.	Jabalpur, Madhya Pradesh	Mundkur & Kheswala(1943); Nema & Mishra(1965).
191	<i>Dasturella divina</i>	Leaf rust, Nursery	<i>B. bambos</i> , <i>D. brandisii</i> , <i>D. strictus</i> , <i>Ochlandra travancorica</i> , <i>O. scriptoria</i> , <i>O. monostigma</i> , <i>Phyllostachys ritcheyi</i> , <i>T. siamensis</i> , <i>D. strictus</i> , <i>Oxytenanthera abeysannae</i>	Dharwad, Karnataka	Bhat (1992); Tewari (1992); Mohanani (2006, 2008),

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		Foliage	<i>D. strictus</i>	-	Bakshi et al. (1972).
		Leaf rust, Bamboo stands	<i>B. bambos</i> , <i>B. balcooa</i> , <i>B. multiplex</i> , <i>B. tuldoidea</i> , <i>B. vulgaris</i> , <i>D. brandisii</i> , <i>D. hamiltonii</i> , <i>D.</i> <i>longispathus</i> , <i>D. strictus</i> , <i>Pritcheyi</i> , <i>O. travancorica</i> , <i>O. scriptoria</i> , <i>T. oliveri</i> , <i>T. siamensis</i> , <i>B. vulgaris</i> , <i>B. ventricosa</i> , <i>D. strictus</i> , <i>B. arundinacea</i>	Kerala	Hosagoudar (1985); Bhat (1992); Mohanan (1988, 2002, 2006).
		Culm, Bamboo stands	<i>D. strictus</i> , Bamboo	-	Bakshi & Singh (1967); Patil et al. (1980).
		Foliage disease, Nursery	<i>D. strictus</i>	-	Bakshi & Singh(1967); Bakshi et al. (1972).
		Witches' broom, Bamboo stands	Bamboo	-	Patil et al. (1980).
		Fungi on foliage	<i>Dendrocalamus</i> sp., <i>D. strictus</i> , <i>Oxytenanthera</i> <i>abeyssanae</i> , <i>O.</i> <i>momostigma</i> , <i>B. arundinacea</i> , <i>B. vulgaris</i> , <i>B. nutans</i>	Majhagawan, Uttar Pradesh, Dehradun, Uttarakhand	Mundkur & Kheswala(1943); Bakshi & Singh(1967); Jamaluddin (1992); Khan et al. (1995).
192	<i>D. oxytenanthera</i>	Foliage disease, Nursery	<i>Oxytenanthera</i> sp.	Mahabaleshwar, Maharashtra	Sathe (1965).
		Leaf rust, Bamboo stands	<i>Bambusa</i> sp.	-	Sathe (1965).
193	<i>Dasturella</i> sp.	Leaf rust, Bamboo stands	<i>Bambusa</i> sp.	Dandeli, Karnataka	Rangaswami et al. (1970); Mohanan (2002).
194	<i>Physopella</i> sp.	Fungi on foliage	<i>Bambusa</i> sp.	Jabalpur, Madhya Pradesh	Rangaswami et al. (1970).
195	<i>Puccinia gracilentia</i>	Leaf rust, Nursery	<i>Bambusa</i> sp.	Darjeeling, West Bengal	Sydow et al. (1912); Tewari (1992).
		Leaf rust, Bamboo stands	<i>Bambusa</i> sp.	Darjeeling, West Bengal	Butler & Bisby(1960); Bakshi & Singh(1967); Patil et al. (1980); Mohanan (2002).
		Foliage disease, Nursery	<i>Bambusa</i> sp.	Darjeeling, West Bengal	Butler & Bisby (1960); Bakshi & Singh (1967).
196	<i>Puccinia longicornis</i>	Leaf rust, Bamboo stands	<i>B. arundinacea</i>	-	Patil et al. (1980).
197	<i>Puccinia melanocephala</i>	Leaf rust, Nursery	<i>Thamnocalamus</i> <i>spathiflorus</i> , <i>Arundinaria</i> <i>spathiflora</i> , <i>Bambusa</i> sp.	-	Sydow et al. (1907); Tewari (1992).
		Leaf rust, Bamboo stands	<i>Arundinaria</i> sp., <i>Bambusa</i> sp., <i>B. arundinacea</i>	Poona, Maharashtra	Patel et al. (1949); Anonymous (1960); Bulter & Bisby (1960); Bakshi & Singh (1967); Patil et al. (1980); Mohanan (2002).
		Fungi on foliage	<i>Arundinaria spathiflora</i> , <i>A.</i> <i>suberacta</i> , <i>Arundinaria</i> sp.	Bhubaneshwar, Orissa, Maharashtra.	Sydow et al. (1907); Chowdhury (1948); Patel et al. (1949); Jamaluddin (1992).
198	<i>Puccinia phyllostachydis</i>	Leaf rust, Bamboo stands	<i>Phyllostachys aurea</i>	-	Browne (1968); Mohanan (2002).
199	<i>Puccinia</i> sp.	Leaf rust, Nursery	<i>Bambusa</i> sp.	-	Sydow & Butler (1906); Tewari (1992).
		Leaf rust, Bamboo stands	<i>B. arundinacea</i> , <i>D.</i> <i>longispathus</i> , <i>D. brandisii</i> , <i>Phyllostachys</i> sp., <i>T. oliveri</i>	Kerala	Mohanan (1988).
		Fungi on foliage	<i>Bambusa arundinacea</i> , <i>Bventricosa</i> , <i>D. strictus</i> , <i>D. brandisii</i> , <i>D. longispathus</i> , <i>Phyllostachys</i> sp., <i>Thyrsostachys oliveri</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992).
200	<i>Puccinia xanthosperma</i>	Leaf rust, Nursery	<i>Bambusa</i> sp.	Mussorie, Uttar Pradesh	Sydow & Butler (1906); Tewari (1992).
		Leaf rust, Bamboo stands	<i>Arundinaria</i> sp, <i>Bambusa</i> sp.	-	Butler & Bisby(1960); Bakshi & Singh(1967); Patil et al. (1980).

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
		Fungi on foliage	<i>Bambusa</i> sp.	Nainital, Uttar Pradesh	Sydow et al. (1906); Butler & Bisby(1960); Bakshi & Singh(1967).
201	<i>Tretophragmia longispora</i>	-	<i>Bambusa</i> sp.	-	Subramanian & Natarajan (1973).
202	<i>T. nilgirensis</i> (=Arthrotryum nilgirensis).	-	Dead bamboo	-	Subramanian & Natarajan(1973).
203	<i>Tunicospora bagchii</i>	Foliage rust, Bamboo stands	<i>D. strictus</i>	-	Singh & Pandey (1971); Bakshi et al. (1972); Patil et al. (1980); Mohanan (2002, 2006).
		Fungi on foliage	<i>D. strictus</i> , <i>Bambusa</i> sp.	-	Singh & Pandey(1971); Jamaluddin (1992).
		Fungi on culm	<i>D. strictus</i>	-	Sydow et al. (1916); Jamaluddin (1992).
204	<i>Uredo bambusae-nanae</i>	Uredo leaf rust, Bamboo stands	<i>Bambusa nana</i>	-	Mohanan (2002, 2006).
205	<i>U. ignava</i>	Uredo leaf rust, Bamboo stands	Bamboo	-	Patil et al. (1980).
	29). Order: Ustilaginales				
206	<i>Tilletia bambusae</i>	Infections of inflorescence (Smut).	<i>Bambusa</i> sp., <i>B. bambos</i>	-	Thirumalachar & Pavgi(1966); Patil et al. (1980); Zhu (1988); Mohanan (2002, 2006).
207	<i>Ustilago shiraiana</i>	Smut on stem on spikes ergot, Nursery	<i>Bambusa</i> sp.	India	Ramakrishnan & Ramakrishnan (1948); Mundkur & Thirumalachar (1952).
		Culm smut, Bamboo stands	<i>Bambusa</i> sp.	-	Mohanan (2002, 2006).
		Infections of inflorescence (Smut).	<i>Bambusa</i> sp., <i>B. bambos</i>	-	Patil et al. (1980); Zhu (1988); Mohanan (2002).
		Fungi on culm	<i>Bambusa</i> sp., <i>Arundinaria wightiana</i>	DehraDun, Gorakpur, Uttar Pradesh, Maharashtra, Ootacamund, Tamil Nadu	Ramakrishnan & Ramakrishnan (1948); Mundkur & Thirumalachar (1952).
	3). Phylum: Coelomycota				
	30). Order:				
208	<i>Scphospora phyllostachydis</i>	-	<i>B. arundinacea</i>	-	Muthumary (1988).
	4). Phylum: Deuteromycota				
209	31). Order: Hyphomycetes				
210	<i>Chaetochalara bulbosa</i>	-	<i>Bambusa</i> sp. <i>D. strictus</i>	Solan, Himachal Pradesh	Paul et al. (1990).
211	<i>Oramasia bambusae</i>	On fallen and dead culms	<i>Bambusa</i> sp.	Jabalpur, Madhya Pradesh	Sharma & Singh. (1992).
212	<i>Pycnostysanus azaleae</i>	Dead culms	<i>D. strictus</i>	Palghat, Kerala	Karandikar & Patwardhan(1986).
213	<i>Spegazzinia tessartha</i>	Culms	<i>Bambusa</i> sp.	Jabalpur, Madhya Pradesh	Sharma & Sushma (1990).
	32). Order: Melanconiales				
214	<i>Pestalozziella bambusae</i>	Culm sheath spot	<i>B. bambos</i> , <i>B. polymorpha</i>	-	Mohanan (2002).
215	<i>Pestalozziella</i> sp.	Culm sheath rot	<i>B. arundinacea</i>	Kerala	Mohanan (1988).
		Fungi on culm	<i>B. arundinacea</i>	-	Jamaluddin (1992).
216	<i>Trimmatostroma betulinum</i>	-	<i>Bambusa nutans</i>	Jabalpur, Madhya Pradesh	Sharma (1978).
	33). Order: Moniliales				
217	<i>Acremonium</i> sp.	Infections of seeds	<i>D. strictus</i>	Orissa	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
218	<i>Alternaria alternata</i>	Leaf tip blight, Nursery	<i>B. bambos</i> <i>D. strictus</i>	Kerala	Tewari (1992); Mohanan (2006, 2008).
		Culm, Bamboo stands	<i>B. arundinacea</i>	Kerala	Mohanan (1988).
		Leaf spot, Bamboo stands	<i>Bambusa</i> sp., <i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanan (2002, 2006).
		Fungi of foliage	<i>Bambusa arundinacea</i> , <i>B. balcooa</i> , <i>Melaconna baccifera</i>	Jabalpur, Madhya Pradesh, Dehradun, Uttar Pradesh	Kushwaha & Pathak (1977); Jamaluddin (1992); Khan et al. (1995).

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		Infections of seeds	<i>B. bambos</i> , <i>B. nutans</i> , <i>B. tulda</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
219	<i>Alternaria longissima</i>	Infections of seeds	<i>B. bambos</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
220	<i>Alternaria</i> sp.	Fungi associated with fading leaves/spot on the leaves, Nursery	<i>Bambusa</i> sp.	Podlibetta, kodagu, Karnataka	Rangaswami et al. (1970).
		Leaf blight	<i>B. bambos</i> , <i>D. strictus</i>	-	Tewari (1992).
		Infections of seeds	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanan (1988, 2002).
			<i>D. brandisii</i>	Kodagu Karnataka	Remadevi et al. (2009).
		Fungi of foliage	<i>Bambusa</i> sp., <i>B. arundinacea</i> <i>Arundinaria</i> sp., <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Rangaswami et al. (1970); Jamaluddin (1992).
221	<i>Annellophragmia coonoorensis</i>	Miscellaneous foliage and Minor branch infections	<i>Bambusa nana</i>	Jabalpur, Madhya Pradesh, Pachmarhi, Madhya Pradesh	Sharma (1971); Mohanan (2002).
		Leaf blight, Nursery	<i>B. multiplex</i>	-	Tewari (1992).
222		Fungi of foliage	<i>Bambusa nana</i>	-	Sharma (1973).
223	<i>Arthrinium phaerospermum</i> (= <i>Papularia sphaerosperma</i>).	Sooty stripe disease, Bamboo stands	Bamboo	University Garden, Jabalpur, Madhya Pradesh	Patil et al. (1980).
		Fungi on culm	<i>Bambusa</i> sp., <i>B. arundinacea</i>	-	Mason (1933); Sprague (1950); Jamaluddin (1992).
224	<i>Arthrinium sphaerospermum</i>	Fungi on culm	<i>Bambusa</i> sp., <i>B. arundinacea</i>	Mussoorie, Uttar Pradesh, Anekal, Karnataka	Mason (1933); Sprague (1950); Rangaswami et al. (1970); Jamaluddin (1992).
		Infections of seeds	<i>B. nutans</i> , <i>D. strictus</i> , <i>G. hasskarliana</i> , <i>T. siamensis</i>	-	Mohanan (2002).
		Dead stems	<i>Bambusa</i> sp.	-	Sharma& Sushma (1990).
225	<i>Arthrinium</i> sp.	Fungi of foliage	<i>Arundinaria</i> sp.	Darjeeling, West Bengal	Reddy (1969).
		Infections of seeds	<i>B. nutans</i> , <i>D. strictus</i> , <i>G. hasskarliana</i> , <i>T. siamensis</i>	-	Mohanan (2002).
		Culm stain	<i>Bambusa</i> sp.	-	Mohanan (2002).
226	<i>Arthrobotryum nilgirensis</i>	Decay of culms in stands	<i>Bambusa</i> sp.	Sim's park, Coonoor, Nilgiris, Tamil Nadu	Kapoor & Munjal(1966); Mohanan (2002).
227	<i>Articulospora tetracladia</i>	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	Poona, Maharashtra	Patil & Rao (1972).
228	<i>Aspergillus flavus</i>	Infections of seeds	<i>B. nutans</i> , <i>D. strictus</i> , <i>B. bambos</i> , <i>T. siamensis</i>	Jabalpur, Madhya Pradesh	Tewari (1992); Mohanan (2002).
229	<i>A. fumigatus</i>	Infections of seeds	<i>B. nutans</i> , <i>B. tulda</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Tewari (1992); Mohanan (2002).
230	<i>A. niger</i>	Infections of seeds	<i>B. bambos</i> , <i>B. nutans</i> , <i>B. tulda</i> , <i>D. strictus</i> , <i>T. siamensis</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Mohanan (2002).
			<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
231	<i>Aspergillus</i> sp+ <i>Nematode</i>	Infections of seeds	<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
232	<i>Aspergillus</i> sp.	Culm stain	<i>Bambusa</i> sp.	-	Mohanan (2002).
		Infections of seeds	<i>D. strictus</i> , <i>B. bambos</i>	Kerala	Tewari (1992); Mohanan (2002).
			<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
233	<i>Berkleasmium papilatum</i>	Old bamboo thatches	Bamboo	-	Rao & Rao (1964a).
234	<i>Bipolaris bambusae</i>	Leaf blight, Nursery	<i>B. bambos</i>	Kerala	Mohanan, 1994, 2006, 2008.
235	<i>Bipolaris bambusae</i> <i>Bipolaris maydis</i>	Foliage blight, Bamboo stands	<i>B. bambos</i> , <i>B. polymorpha</i> <i>D. brandisii</i> , <i>D. longispathus</i> , <i>D. strictus</i> , <i>Pritcheyi</i>	Kerala	Harsh et al. (1989); Mohanan (2002, 2006).
236	<i>Bipolaris maydis</i>	Leaf blight, Nursery	<i>B. bambos</i> , <i>D. brandisii</i> , <i>D. strictus</i> , <i>D. membranaceus</i> , <i>T. siamensis</i> , <i>O. wightii</i> . <i>P. pubescens</i>	Kerala	Mohanan (2006, 2008).
237	<i>Bipolaris</i> sp.	Infections of seeds	<i>D. strictus</i> , <i>B. bambos</i> , <i>B. tulda</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).

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238	<i>Bipolaris urochloae</i>	Leaf blight, Nursery	<i>B. bambos</i>	Kerala	Tewari (1992); Mohanan (2006, 2008).
239	<i>Cephalosporium</i> sp.	Infections of seeds	<i>D. strictus</i>	Kerala	Tewari (1992); Mohanan (2002).
240	<i>Cercospora</i> sp.	Fungi on foliage	<i>B. nutans, B. vulgaris, B. balcooa, D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Khan et al. (1995).
241	<i>Cercospora</i> sp.	Leaf blight, Nursery	<i>D. strictus, B. nutans, B. vulgaris</i>	Dehradun, Uttar Pradesh	Jamaluddin (1992); Tewari (1992); Khan et al. (1995).
		Fungi on foliage	<i>B. nutans</i>	-	
		Infections of seeds	<i>B. bambos, B. tulda, D. strictus</i>	Kerala	Jamaluddin (1992); Mohanan (1988, 2002).
242	<i>Ceratocladium microspermum</i>	Dead leaves and culms	<i>Dendrocalamus</i> sp.	-	Munjaj & Kapoor (1969).
243	<i>Circinotrichum maculiformae</i>	Fungi on foliage	<i>D. strictus</i>	-	Tilak et al. (1968).
244	<i>Chaetospermum carneum</i>	Leaf spot, Bamboo stands	<i>B. arundinacea</i>	Kerala	Tewari (1992); Mohanan (1988, 2002).
245	<i>Chaetospermum</i> sp.	Leaf spot, Bamboo stands	<i>B. arundinacea</i>	Kerala	Mohanan (1988); Jamaluddin (1992).
246	<i>Cladosporium cladosporioides</i>	Infections of seeds	<i>B. bambos, B. tulda, D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
247	<i>Cladosporium graminium</i>	Leaf molds, Bamboo stands	Bamboo	-	Patil et al. (1980).
248	<i>Cladosporium</i> sp.	Infections of seeds	<i>B. bambos, D. strictus, B. nutans, G. hasskarliana</i>	Dehradun, Uttar Pradesh, Jabalpur, Madhya Pradesh	Jamaluddin (1992); Mohanan (1988, 2002).
		Infections of seeds	<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
249	<i>Cladosporium oxysporum</i>	Infections of seeds	<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
250	<i>Colletotrichum crassipes</i>	Leaf spot, Bamboo stands	<i>B. arundinacea</i>	Kerala	Mohanan (1988); Jamaluddin (1992).
251	<i>Colletotrichum gloeosporoides</i>	Leaf spot, Nursery	<i>B. bambos, D. strictus, B. blumeana</i>	Kerala	Mohanan (2006, 2008).
		Leaf blight, Nursery	<i>B. arundinacea, D. strictus</i>	Umariya, Madhya Pradesh, Kerala	Mohanan (1988); Jamaluddin (1992); Tewari (1992).
		Leaf spot, Bamboo stands	<i>Arundinaria</i> sp., <i>B. bambos, D. strictus, O. ebracteata, O. travancorica, O. scriptoria</i>	Kerala	Mohanan (2002, 2006).
		Fungion culm	<i>B. arundinacea</i>	Umariya, Madhya Pradesh	Jamaluddin (1992).
252	<i>Colletotrichum</i> sp.	Fungi on culm	<i>D. strictus</i>	-	Jamaluddin (1992).
		Infections of seeds	<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
253	<i>Curvularia andropogonis</i>	Leaf spot, Bamboo stands	<i>Ochlandra</i> sp.	-	Mohanan (2002).
254	<i>Curvularia borrieriae</i>	Infections on seeds	<i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
255	<i>Curvularia brachyspora</i>	Infections on seeds	<i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
256	<i>Curvularia eragrostidis</i>	Infections on seeds	<i>B. nutans, D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
257	<i>Curvularia lunata</i>	Leaf blight, Nursery	<i>B. arundinacea, B. bambos</i>	Jabalpur, Madhya Pradesh	Mohanan (1988); Tewari (1992).
		Leaf spot, Bamboo stands	<i>Arundinaria</i> sp., <i>B. arundinacea, B. bambos, Thyrostachys</i> sp., <i>O. travancorica, O. scriptoria, O. ebracteata</i>	Umariya, Madhya Pradesh	Jamaluddin (1992); Mohanan (2002).
		Infections on seeds	<i>B. bambos, B. tulda, D. strictus, B. nutans, G. hasskarliana, T. Siamensis</i>	Kerala	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
258	<i>Curvularia oryzae</i>	Infections on seeds	<i>D. strictus, T. siamensis</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
259	<i>Curvularia pallescens</i>	Infections on seeds	<i>B. bambos, D. strictus,</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).

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		Leaf spot, Nursery	<i>B. bambos</i> , <i>B. vulgaris</i> , <i>D. longispathus</i> , <i>O. scriptoria</i> , <i>T. oliveri</i>	-	Mohanani (2002, 2006, 2008).
260	<i>Curvularia senegalensis</i>	Infections on seeds	<i>T. siamensis</i>	Jabalpur, Madhya Pradesh	Mohanani (2002).
261	<i>Curvularia</i> sp.	Leaf spot, Bamboo stands	<i>B. arundinacea</i> , <i>Arundinaria</i> sp., <i>Phyllostachys</i> sp., <i>D. strictus</i>	Orissa, Kerala	Mohanani (1988); Jamaluddin (1992).
		Infections of seeds	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (1988).
			<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
		Fungi on culm	<i>T. oliveri</i>	Cuttack, Orissa	Jamaluddin (1992).
262	<i>Curvularia stapeliae</i>	Infections on seeds	<i>B. nutans</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
263	<i>Dactylaria arundica</i>	Dead stem	<i>Arundinaria</i> sp.	New Delhi	Chowdhury (1982).
264	<i>Dactylaria bambusina</i>	Leaf spot, Nursery	<i>B. bambos</i> , <i>D. brandisii</i> , <i>D. strictus</i> , <i>O. wightii</i> , <i>T. siamensis</i>	Kerala	Bakshi (1976); Mohanani (1994, 2006, 2008).
		Zonate leaf spot, Bamboo stands	<i>B. bambos</i> , <i>B. polymorpha</i> , <i>D. strictus</i> , <i>D. longispathus</i> , <i>O. ebracteata</i> , <i>O. travancorica</i> , <i>O. scriptoria</i> , <i>T. siamensis</i> , <i>Thyrsostachys</i> sp.	Kerala	Mohanani (2002, 2002, 2006).
265	<i>Dactylaria</i> sp.	Leaf blight, Nursery	<i>B. bambos</i> , <i>D. strictus</i> , <i>Phyllostachys pubescens</i>	-	Tewari (1992).
		Fungi on foliage	<i>B. arundinacea</i> , <i>B. vulgaris</i> , <i>D. longispathus</i> , <i>D. strictus</i> , <i>O. ebracteata</i> , <i>O. scriptoria</i> , <i>O. travancorica</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992).
		Infection on seeds	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (1988, 2002).
		Leaf spot, Bamboo stands	<i>B. arundinacea</i> , <i>B. vulgaris</i> , <i>D. longispathus</i> , <i>D. strictus</i> , <i>O. ebracteata</i> , <i>O. scriptoria</i> , <i>O. travancorica</i>	Kerala	Mohanani (1988); Jamaluddin (1992).
266	<i>Didymobotryum atrum</i>	Decay and deterioration of bamboo culms	Bamboo	-	Agnihotrudu (1966).
267	<i>Dictyoarthinium lilliputeum</i>	Bamboo thatches	Bamboo	Hyderabad, Andhra Pradesh	Rao and Rao (1964b).
268	<i>Dictyoarthinium quadratum</i>	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	Chennai, Tamil Nadu	Butler & Bisby (1960); Mohanani (2002).
		Dead leaves	<i>Bambusa</i> sp.	-	Butler & Bisby (1960).
269	<i>Dictyoarthinium sacchari</i>	-	<i>D. strictus</i>	Balehonnur, Karnataka,, Bhawarna, Himachal Pradesh	Paul & Singh (1986).
270	<i>Dictyoarthinium</i> sp.	-	<i>D. strictus</i>	-	Paul & Singh (1986).
271	<i>Didyostilbe kamatii</i>	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	Kolhapur, Maharashtra	Panwar et al. (1973)
272	<i>Drechslera halodes</i>	Infection on seeds	<i>B. bambos</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
273	<i>Drechslera hawaiiensis</i>	Infection on seeds	<i>B. bambos</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
274	<i>Drechslera rostrata</i>	Leaf spot, Nursery	Bamboo	Jabalpur, Madhya Pradesh	Harsh et al. (1989).
		Leaf spot, Bamboo stands	Bamboo	Jabalpur, Madhya Pradesh	Harsh et al. (1989).
		Fungi on foliage	<i>B. arundinacea</i> , <i>P. pubescens</i> , <i>D. strictus</i> , <i>B. balcooa</i> , <i>D. brandisii</i> , <i>B. vulgaris</i> var <i>stricta</i> , <i>D. vulgaris</i> , <i>D. hamiltonii</i> , <i>D. membranaceus</i> , <i>D. giganteus</i> , <i>Melocanna baccifera</i> , <i>Phyllostachys pubescens</i> , <i>T. oliveri</i>	Dehradun, Uttar Pradesh	Jamaluddin (1992); Khan et al. (1995).
275	<i>Drechslera sorghicola</i>	Leaf spot, Nursery	<i>D. asper</i>	IWST, Bangalore, Karnataka	Remadevi et al. (2009).
276	<i>Drechslera</i> sp.	Leaf blight, Nursery	<i>B. bambos</i>	-	Tewari (1992).

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		Leaf spot, Bamboo stands	Bamboo, <i>B. arundinacea</i>	Kerala	Mohanani (1988); Jamaluddin (1992).
		Infection of seeds	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (1988, 2002).
277	<i>Drechslera tetramera</i>	Infections of seeds	<i>B. nutans</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
		Fungi on foliage	<i>B. arundinacea</i> , <i>P. pubescens</i> , <i>D. strictus</i> , <i>B. balcooa</i> , <i>D. brandisii</i> , <i>B. vulgaris</i> var <i>stricta</i> , <i>B. vulgaris</i> , <i>D. hamiltonii</i> , <i>D. membranaceus</i> , <i>D. giganteus</i> , <i>M. baccifera</i> , <i>P. pubescens</i> , <i>T. oliveri</i>	-	Jamaluddin (1992); Khan et al. (1995).
278	<i>Edmundmasonia bulbosa</i>	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	Hyderabad, Andhra Pradesh	Mohanani (2002).
279	<i>Epicoccum purpurascens</i>	Infections of seeds	<i>B. bambos</i> , <i>D. strictus</i> , <i>T. siamensis</i>	-	Mohanani (2002).
280	<i>Epicoccum purpureum</i>	Infections of seeds	<i>B. tulda</i> , <i>D. strictus</i>	Kerala	Tewari (1992), Mohanani (2002).
281	<i>Epicoccum</i> sp.	Infections of seeds	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (1988, 2002).
282	<i>Fusarium equiseti</i>	Rot of growing culm, Bamboo stands	<i>B. bambos</i> , <i>B. balcooa</i> , <i>B. polymorpha</i> , <i>D. brandisii</i> , <i>D. strictus</i> , <i>D. longispathus</i> , <i>T. oliveri</i>	Nilambur, Koliathirumedu, Ezhattumugam, Palappilly, Irumpupalam Mundoor, Nilambur, Kerala	Mohanani (2002, 2006, 2008).
		Culm rot, Bamboo stands	<i>B. arundinacea</i> , <i>B. vulgaris</i> , <i>D. longispathus</i>	Kerala	Mohanani (1988).
		Fungi on culm	<i>B. arundinacea</i> , <i>B. vulgaris</i> , <i>D. longispathus</i>	-	Jamaluddin (1992).
		Leaf blight	Bamboo	Kerala	Balakrishnan et al. (1988).
283	<i>Fusarium moniliforme</i>	Damping- off, Nursery	<i>D. strictus</i> , <i>Ochlandra scriptoria</i>	-	Mohanani (1988, 2006); Tewari (1992).
		Rot of emerging culm, Bamboo stands	<i>B. bambos</i> , <i>B. balcooa</i> , <i>B. polymorpha</i> , <i>B. vulgaris</i> , <i>D. strictus</i> , <i>D. longispathus</i> , <i>Thyrsostachys oliveri</i>	Nilambur, Koliathirumedu, Ezhattumugam, Palappilly, Irumpupalam, Mundoor, Nilambur, Nadukani, Kerala	Mohanani (2002, 2006, 2008).
		Basal culm decay, Bamboo stands	<i>B. arundinacea</i> , <i>B. vulgaris</i>	Kerala	Mohanani (1988).
		Basal stalk rot, Bamboo stands	<i>Phyllostachys pubescens</i>	-	Chen (1982).
284	<i>Fusarium oxysporum</i>	Damping- off, Nursery	<i>D. brandisii</i> , <i>Thyrsostachys siamensis</i>	Kerala	Mohanani (2006, 2008).
		Seedling wilt, Nursery	<i>Bambusa bambos</i>	-	Tewari (1992).
		Emerging culm rot	<i>B. balcooa</i>	Chickamagalur, Karnataka	Remadevi et al. (2009).
		Fungi on culm	<i>T. oliveri</i>	Bhubaneswar, Orissa	Jamaluddin (1992).
		Fungi on Root/ Rhizome	<i>B. arundinacea</i>	-	Jamaluddin (1992).
		Infection on seeds	<i>B. bambos</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
285	<i>Fusarium pallidoroseum</i>	Branch die- back, Bamboo stands	<i>B. bambos</i> , <i>B. vulgaris</i> , <i>D. strictus</i>	Kerala	Mohanani (2002, 2006).
		Brown leaf spot, Bamboo stands	<i>Melaconna arundina</i> , <i>Schizostachyum dullooa</i>	-	Mohanani (2002, 2006).
		Fungi on culm, Bamboo stands	<i>B. arundinacea</i> , <i>Dendrocalamus</i> sp.	Jabalpur, Madhya Pradesh, Kerala	Mohanani (1988); Jamaluddin (1992).
		Fungi on foliage, Bamboo stands	<i>Mhumilis</i> , <i>Teinostachyum dullooa</i>	Jorhar, Assam	Deka et al. (1990).
286	<i>Fusarium semitectum</i>	Seedling wilt, Nursery	<i>D. strictus</i> , <i>B. tulda</i>	-	Tewari (1992).
		Brown leaf spot, Bamboo stands	<i>B. bambos</i> , <i>B. vulgaris</i> , <i>D. strictus</i> , <i>Phyllostachys ritcheyi</i>	Kerala	Mohanani (2002, 2006).
		Fungi on culm	<i>D. strictus</i> , <i>Dvulgare</i> , <i>B. vulgaris</i> , <i>M. baccifera</i> , <i>B. nutans</i>	Coastal areas in Orissa	Shukla et al. (1988).
		Fungi on Root/ Rhizome	<i>B. arundinacea</i> , <i>B. tulda</i> , <i>B. vulgaris</i> , <i>D. strictus</i>	-	Jamaluddin (1992).

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		Infection on seeds	<i>B. bambos, B nutans</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Mohanan (2002).
		Leaf and branch blight	Bamboo	Kerala	Balakrishnan et al. (1988).
287	<i>Fusarium</i> sp.	Damping- off, Nursery	<i>Bambusa bambos, D. strictus</i>	-	Tewari (1992).
		Seedling wilt, Nursery	<i>D. stocksii, P. pubescens</i>	IWST, Bangalore	Remadevi et al. (2009).
		Leaf blight, Nursery	<i>D. brandisii, B. pallida</i>	IWST, Bangalore	Remadevi et al. (2009).
		Culm rot, Bamboo stands	<i>B. arundinacea, D. longispathus, D. strictus</i>	Kerala	Mohanan (1988); Jamaluddin (1992).
		Infection on seeds	<i>B. bambos, B. nutans, B. arundinacea, D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (1988, 2002).
			<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al., (2009).
		Rhizome bud rot, Bamboo stands	<i>B. arundinacea</i>	Kerala	Mohanan (1988).
		Basal culm decay	<i>B. arundinacea, Oxytenanthera monostigma</i>	Kerala	Mohanan (1988).
		Rot of growing culm	Bamboo	Kerala	Balakrishnan et al. (1988).
288	<i>Fusarium verticilliodes</i>	Rot of growing culm	<i>D asper</i>	Jarak Bande, Karnataka	Remadevi et al. (2009).
289	<i>Gangliostilbe indicus</i>	Dead bamboo stem	Bamboo	Shimoga, Karnataka	Vittal (1975).
290	<i>Geotrichum</i> sp.	Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Mohanan (2002).
		Grey blight of culms, Bamboo stands	<i>B. arundinacea, B. vulgaris</i>	Kerala	Balakrishnan et al. (1988).
291	<i>Graphium aeruginosum</i>	Seedling rhizome rot, Nursery	<i>B. arundinacea</i>	Mycological area, IARI, New Delhi, Kerala	Mohanan (1988).
		Fungi on culm	<i>Bambusa</i> sp.	-	Munjaj et al. (1959).
		Rotting bamboo stumps	Bamboo	-	Kapoor & Munjal(1966).
292	<i>Graphium</i> sp.	Infections on seeds	<i>B. bambos, B. nutans</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
		Seedling rhizome rot	<i>B. arundinacea</i>	Kerala	Mohanan (1988).
293	<i>Helicospodium indicum</i>	Old bamboo thatches	<i>Bamboo</i>	-	Rao and Rao(1964c).
294	<i>Helicospodium neesii</i>	Old bamboo thatches	<i>Bamboo</i>	-	Rao and Rao(1964c).
295	<i>Helicospodium nizamabadense</i>	Old bamboo thatches	<i>Bamboo</i>	-	Rao and Rao(1964c).
296	<i>Helminthosporium bambusae</i>	Leaf blight, Nursery	<i>B. bambos, D. strictus</i>	Assam	Tewari (1992).
		Fungi on foliage	<i>B. spinosa</i>	Assam	Cooke (1892); Theissen & Sydow (1915a).
		Foliage and minor branch infections	<i>B. blumeana</i>	-	Mohanan (2002).
297	<i>Helminthosporium foveolatum</i>	Dead culms	<i>Bambusa</i> sp.	Agricultural University, Jabalpur, Madhya Pradesh	Sharma et al. (1986).
298	<i>Helminthosporium</i> sp.	Leaf blight, Nursery	<i>B. arundinacea</i>	Kerala	Mohanan (1988).
		Leaf spot, Bamboo stands	<i>B. arundinacea, D. strictus, T. oliveri</i>	Kerala	Mohanan (1988).
299	<i>Koorchaloma okamurae</i>	Dried leaf sheath	<i>Bambusa</i> sp.	-	Agnihothrudu (1963).
300	<i>Memnoniella echinata</i>	Infections of seeds	<i>B. bambos, B. nutans, D. strictus, T. siamensis</i>	Kerala	Sarbhoj & Agarwal (1991); Jamaluddin (1992); Tewari (1992); Mohanan (2002).
301	<i>Memnoniella</i> sp.	Infections of seeds	<i>B. bambos, D. strictus,</i>	Jabalpur, Madhya Pradesh	Mohanan (1988, 2002).
302	<i>Myrothecium roridum</i>	Infections on seeds	<i>B. bambos</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Mohanan (2002).
303	<i>Myrothecium</i> sp.	Infections on seeds	<i>B. bambos, B. nutans, Gigantochloa hasskarliana, T. siamensis</i>	Kerala	Tewari (1992); Mohanan (2002).
304	<i>Nigrospora oryzae</i>	Infections of seeds	<i>B. bambos, B. nutans, D. strictus, Gigantochloa hasskarliana</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanan (2002).
305	<i>Nigrospora</i> sp.	Infections of seeds	<i>B. bambos, D. strictus</i>	Kerala	Mohanan (1988, 2002).
306	<i>Papularia arundinis</i> <i>Arthrinium sphaelostermum</i> (= <i>Papularia sphaerosperma</i>).	Sooty stripe disease, Bamboo stands	<i>Bambusa</i> sp.	Mussorie, Uttar Pradesh, Anekal Mysore	Ellis (1965); Mohanan (2002).

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
		Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Mohanani (2002).
307	<i>Papularia</i> sp which is identical with <i>Ustilago shiraina</i>	Fungi on culm, Bamboo stands	Bamboo	-	Bagchee & Singh (1954).
308	<i>Papularia sphaerosperma</i> (=Arthrinium <i>sphaerospermum</i>).	Fungi on culm	<i>Bambusa</i> sp., <i>B. arundinacea</i>	Mussorie, Uttar Pradesh, Anekal Mysore	Mason (1933); Sprague (1950); Rangaswami et al. (1970); Jamaluddin (1992).
309	<i>Paecilomyces lilacinus</i>	foliage and branch infections	<i>D. hamiltonii</i>	Jorhat, Assam	Deka et al. (1990); Mohanani (2002).
		Fungi on foliage, Chlorosis	<i>D. hamiltonii</i>	-	Deka et al. (1990).
310	<i>Penicillium</i> sp.	Infections on seeds	<i>B. bambos</i> , <i>B. nutans</i> , <i>B. tulda</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh, Kerala	Mohanani (1988); Jamaluddin (1992); Tewari (1992); Mohanani (2002).
311	<i>Periconia byssoides</i>	Dead branches	<i>B. tulda</i>	Palampur, Himachal Pradesh	Agarwal & Sarbhoy(1984).
312	<i>Periconia cambrensis</i>	Culm	<i>Bambusa</i> sp.	Jeolikot, Kumaun, Uttar Pradesh	Munjali & Kapoor (1969).
313	<i>Periconia clitoriae</i>	Bamboo thatches	Bamboo	Hyderabad & Warangal, Andhra Pradesh	Rao & Rao (1964d).
314	<i>Periconia cookeri</i>	Fungi associated with fading leaves causespot on the leaves, Nursery	<i>Bambusa</i> sp.	Hyderabad & Narasapur, Andhra Pradesh	Subramanian (1954); Shukla et al. (1988).
		Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Mohanani (2002).
		Fungi on foliage, Bamboo stands	<i>Bambusa</i> sp.	Mussoorie, Uttar Pradesh, Anekal, Mysore	Sprague (1950); Rangaswami et al. (1970).
		Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	-	Subramanian (1954); Mohanani (2002).
315	<i>Periconia digitatum</i>	Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	Sikkim	Sarbhoy et al. (1986); Sarbhoy & Agarwal (1991); Mohanani (2002).
		Culm stain	<i>Bambusa</i> sp.	-	Mohanani (2002).
316	<i>Periconia kambakkamensis</i>	Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	Karbi Anglong, Assam	Subramanian (1954).
		Dead stems	<i>B. tulda</i>	-	Saikia & Sarbhoy (1985b).
317	<i>Periconia</i> sp.	Fungi on culm	<i>B. arundinacea</i>	Kambakam Hills, Madras, Pachal, Maharashtra	Jamaluddin (1992).
		Juvenile culm rot	<i>B. arundinacea</i>	Kerala	Mohanani (1988).
		Infections on seeds	<i>B. bambos</i> , <i>B. nutans</i> , <i>B. tulda</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh, Peechi, Kerala	Jamaluddin (1992); Tewari (1992); Mohanani, (1988); Mohanani (2002).
318	<i>Periconia ellissii</i>	Bamboo thatches	Bamboo	-	Rao and Rao (1964d).
319	<i>Periconia hispidula</i>	Bamboo thatches	Bamboo	-	Rao and Rao (1964d).
320	<i>Periconia hyderabadensis</i>	Bamboo thatches	Bamboo	-	Rao and Rao (1964d).
321	<i>Periconia indica</i>	Bamboo thatches	Bamboo	-	Rao and Rao (1964d).
322	<i>Periconia laminella</i>	Rotten bamboo	Bamboo	-	Subramanian (1954).
323	<i>Periconia madreya</i>	Bamboo thatches	Bamboo	-	Rao and Rao (1964d).
324	<i>Periconia obliqua</i>	Dead bamboo	Bamboo	-	Subramanian (1954).
325	<i>Periconia pseudohispidula</i>	Bamboo thatches	Bamboo	-	Rao and Rao (1964d).
326	<i>Periconia simplex</i>	Bamboo thatches	Bamboo	-	Rao and Rao (1964d).
327	<i>Periconia stilbacearum</i>	Bamboo thatches	Bamboo	-	Rao and Rao (1964d).
328	<i>Periconia sundara</i>	Dead bamboo	Bamboo	-	Nair & Tyagi (1961).
329	<i>Periconia warticulata</i>	Bamboo thatches	Bamboo	-	Rao and Rao(1964d).
330	<i>Phaeoramularia</i> sp.	Leaf spot	<i>B. tulda</i>	North East India	Borah et al. (1998a).
331	<i>Phaeoisariopsis bambusae</i>	Dot- like black pustules	<i>Bambusa nutans</i>	North East India	Borah et al. (1998a).
332	<i>Phaeoisaria clematidis</i>	Dead culms bamboo	<i>Bambusa</i> sp.	Nalgonda, Andhra Pradesh	Reddy (1974); Satya & Deve (1977).
333	<i>Phaeotrichoconis</i> sp.	Infections on seeds	<i>B. bambos</i> , <i>B. nutans</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
334	<i>Pithomyces</i> sp.	Infections of seeds	<i>D. strictus</i> , <i>B. bambos</i> , <i>B. nutans</i> , <i>Gigantochloa hasskarliana</i> , <i>T. siamensis</i>	Jabalpur, Madhya Pradesh, Kerala	Mohanani (1988); Jamaluddin (1992); Tewari (1992); Mohanani (2002).

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		Leaf spot, bamboo stands	<i>O. scriptoria</i> , <i>O. travancorica</i>	Kerala	Mohanani (1988).
335	<i>Pseudocercospora bambusae</i>	Fungi on foliage	<i>B. tulda</i>	-	Saikia & Sarbhoy (1985b).
		Miscellaneous foliage and minor branch infections	<i>Bambusa</i> sp.	-	Mohanani (2002).
336	<i>Pseudocercospora</i> sp.	Tar like spot	<i>B. tulda</i>	-	Borah et al. (1998a).
337	<i>Pseudospiropes</i> sp.	Tar like spot	<i>B. tulda</i>	North East India	Borah et al. (1998a).
338	<i>Sadasivania bhustha</i>	Bamboo thatches	<i>Bamboo</i>	-	Anonymous (1960).
339	<i>Senosporium indicum</i>	Dead stem	<i>Dendrocalamus</i> sp.	-	Panwar et al. (1973).
340	<i>Sirosporium</i> sp.	Leaf stripping	<i>B. nutans</i>	North East India	Borah et al. (1998a).
341	<i>Spegazzinia sundara</i>	Dead leaves of bamboo	<i>Bamboo</i>	-	Subramanian (1956).
342	<i>Spiropes scopiformis</i>	Sooty mould, Bamboo stands	<i>B. vulagris</i> , <i>B. bambos</i> , <i>D. strictus</i> , <i>O. travancorica</i> , <i>O. ebracteata</i>	Kerala	Mohanani (1988, 2002).
343	<i>Sporidesmium coronatum</i>	Dead bamboo	<i>Bambusa</i> sp.	-	Panwar & Chouhan (1977).
344	<i>Sporidesmium nilgirensis</i>	Decaying in bamboo	<i>Bnana</i>	Ootacamund, Tamil Nadu	Subramanian (1956).
345	<i>Stachybotrys atra</i>	Infections on seeds	<i>B. bambos</i>	Kerala	Tewari (1992); Mohanani (2002).
346	<i>Stachybotrys</i> sp.	Infections on seeds	<i>B. bambos</i> , <i>T. siamensis</i>	Kerala	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
347	<i>Stemphylium</i> sp.	Infections of seeds	<i>D. strictus</i>	Kerala	Tewari (1992); Mohanani (2002).
348	<i>Stilbum erythrocephalum</i>	Dead bamboo stem	<i>Bamboo</i>	-	Currey (1874); Kapoor & Munjal(1966).
349	<i>Stilbum lateritium</i>	Dead bamboo	<i>Bamboo</i>	-	Hennings (1901).
350	<i>Subramania microspora</i>	Bamboo thatches	<i>Bamboo</i>	-	Rao (1966).
351	<i>Subramania sundara</i>	Bamboo thatches	<i>Bamboo</i>	-	TransMicrobeSoc83: 405 (1964).
352	<i>Tetraploa aristata</i>	Dead bamboo	<i>Bamboo</i>	-	Nair & Tyagi (1961).
353	<i>Torula</i> sp.	Infections of seeds	<i>B. bambos</i> , <i>B. tulda</i>	Jabalpur, Madhya Pradesh, Kerala	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
354	<i>Trichoconis padwickii</i>	Infections of seeds	<i>B. bambos</i> , <i>B. tulda</i> , <i>D. strictus</i> , <i>B. nutans</i> , <i>Gigantochloa hasskarliana</i>	Jabalpur, Madhya Pradesh, Kerala	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
355	<i>Trichoderma harzianum</i>	Infections of seeds	<i>B. bambos</i> , <i>B. tulda</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh, Kerala	Jamaluddin (1992); Tewari (1992); Mohanani (2002).
356	<i>Trichoderma</i> sp.	Culm stain, Bamboo stands	<i>Bambusa</i> sp.	-	Mohanani (2002).
357	<i>Triglyphium bambusae</i>	Miscellaneous foliage and minor branch infections	<i>B. tulda</i>	Bahani, Assam	Roy (1966); Mohanani (2002).
		Leaf blight, Nursery	<i>B. tulda</i>	-	Tewari (1992).
358	<i>Xenosporium indicum</i>	Culm stain, Bamboo stands	<i>Bambusa</i> sp.	Darjeeling, West Bengal	Panwar et al. (1973).
	34). Order: Sphaeropsidales				
359	<i>Botryodiplodia theobromae</i>	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Varma (1975); Mohanani (2002).
		Fungi on culm	<i>B. arundinacea</i> , <i>B. nutans</i>	-	Varma & Bilgrami (1977); Jamaluddin (1992).
360	<i>Coniothyrium fuckelii</i>	Miscellaneous foliage and minor branch infections	<i>Ochlandra</i> sp.	-	Mohanani (2002).
		Rusty spots on leaves and culms	<i>Bamboo</i>	Kerala	Balakrishnan et al. (1988).
361	<i>Coniothyrium</i> sp.	On foliage	<i>B. arundinacea</i>	Umariya, Madhya Pradesh	Jamaluddin (1992).
		Leaf blight, Nursery	<i>B. arundinacea</i> , <i>B. bambos</i>	Kerala	Mohanani (1988); Tewari (1992).
362	<i>Cytospora bambusina</i>	Seedling stem infections	<i>B. bambos</i> , <i>B. tulda</i> , <i>D. strictus</i>	-	Tewari (1992).
		Miscellaneous foliage and minor branch infections	<i>B. bambos</i>	Pusa, Bihar	Sydow et al. (1916); Mohanani (2002).
		Dead stems	<i>Bambusa</i> sp.	-	Rao and Rao(1964a).
363	<i>Dinemasporium</i> sp.	Infections on seeds	<i>B. bambos</i>	Jabalpur, Madhya Pradesh	Tewari (1992).

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364	<i>Dinemasporium strigosum</i>	-	<i>B. vulgaris</i>	-	Venkateshwarlu et al. (1988).
		-	<i>Bambusa</i> sp.	-	Sharma & Sushma (1990).
365	<i>Diplodia bambusae</i>	Fungi on foliage	<i>Bambusa</i> sp.	-	Jamaluddin (1992).
366	<i>Diplodia bambusina</i>	Decay and deterioration of bamboo culms	<i>Bambusa</i> sp.	-	Sydow et al. (1916).
367	<i>Diplodia</i> sp.	-	<i>Bambusa</i> sp.	-	Roy (1948).
368	<i>Diplozythiella bambusina</i>	On fading leaves	<i>Bambusa</i> sp.	Dehradun, Uttar Pradesh	Sydow et al. (1916); Butler & Bisby (1960).
		On branches	<i>Bambusa</i> sp.	-	Mohanani (2002).
		Grey leaf spot	<i>Bambusa</i> sp.	-	Patil et al. (1980).
369	<i>Hendersonula toruloidea</i>	On foliage and branches	<i>B. nutans</i>	Jorhat, Assam	Deka et al. (1990); Mohanani (2002).
370	<i>Phloeospora bullata</i>	On dried twigs and branches	<i>B. tulda</i>	Gangtok, Sikkim	Sarbhoy & Agarwal (1991).
371	<i>Phoma dendrocalami</i>	Leaf spot, Bamboo stands	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (1988, 2002, 2006).
372	<i>Phoma eupyrena</i>	Leaf spot, Nursery	<i>B. bambos</i>	Sringeri, Karnataka	Remadevi et al. (2009).
373	<i>Phoma herbarum</i>	Leaf spot, Bamboo stands	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (2002, 2006).
374	<i>Phoma sorghina</i>	Leaf spot, Bamboo stands	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (2002, 2006).
375	<i>Phoma</i> sp.	Infection of seeds	<i>B. arundinacea</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh, Kerala	Mohanani (1988); Jamaluddin (1992).
376	<i>Phomopsis bambusae</i>	Leaf spot, Bamboo stands	<i>B. bambos</i> , <i>D. strictus</i> , <i>Thyrsostachys</i> sp.	Kerala	Mohanani (2002, 2006).
377	<i>Phomopsis</i> sp.	Infections of seeds	<i>B. nutans</i> , <i>B. tulda</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh, Kerala	Jamaluddin (1992); Tewari (1992).
		Leaf spot	<i>B. arundinacea</i>	Kerala	Mohanani (1988).
378	<i>Pyrenochaeta intermedium</i>	Fungi on foliage	<i>B. arundinacea</i>	Darana, Uttar Pradesh	Srivastava (1983).
379	<i>Septoria thyrsostachydis</i>	Leaf spot	<i>Thyrsostachys</i> sp.	-	Mohanani (2002).
380	<i>Stagonospora bambusae</i>	Leaf spot	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (1988, 2002).
381	<i>Stagonospora</i> sp.	Leaf spot	<i>B. arundinacea</i> , <i>Phyllostachys</i> sp.	Kerala	Mohanani (1988).
		Fungi on foliage	<i>Bambusa</i> sp.	Jabalpur, Madhya Pradesh	Jamaluddin (1992).
	5). Phylum: Firmicutes (Bacteria).				
	35). Order: Acholeplasmatales				
382	<i>Phytoplasma</i>	Little leaf disease, Bamboo stands	<i>D. strictus</i>	Agaly, Attapady, Goolikadavu, Thakarapadhyas in Mannarkade Forest Division, Chinnar-Idukki Wildlife division, Kerala	Mohanani (2002, 2006, 2008).
	36). Order: Mycoplasmatales				
383	<i>Mycoplasma like Organism (Phytoplasma).</i>	Little leaf disease	<i>D. strictus</i>	Gottipura, Karnataka	Tewari (1992); Remadevi et al. (2009).
		Witches' broom diseases	<i>B. bambos</i> , <i>B. nutans</i> , <i>D. stocksii</i> , <i>D. strictus</i>	Jarak Bande, Gottipura, Nallal, IWST, Bangalore, Karnataka	Remadevi et al. (2009).
	6). Phylum: Nematoda				
	37). Order: Dorylaimida				
384	<i>Xyphinema</i> sp.	Root lesion nematode in bamboo hedge	<i>Bambusa nana</i>	-	Basu (1978).
	38). Order: Tylenchida				
385	<i>Helicotylenchus</i> sp.	Root lesion nematode in bamboo hedge	Bamboo, <i>Bambusa nana</i>	-	Basu (1978).
386	<i>Hoplolaimus</i> sp.	Root lesion nematode in bamboo hedge	<i>Bambusa nana</i>	-	Basu (1978).
387	<i>Pratylenchus</i> sp.	Root lesion nematode in bamboo hedge	Bamboo, <i>Bambusa nana</i>	-	Basu (1978).
388	<i>Tylenchorhynchus</i> sp.	Root lesion nematode in bamboo hedge	<i>Bambusa nana</i>	-	Basu (1978).

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389	<i>Tylenchus</i> sp.	Root lesion nematode in bamboo hedge	<i>Bambusa nana</i>	-	Basu (1978).
	7). Phylum: Oomycota				
	39). Order: Peronosporales				
390	<i>Pythium middletonii</i>	Rhizome bud rot	<i>B. bambos</i>	Kerala	Mohanani (1990, 2008).
391	<i>Pythium</i> sp.	Rhizome bud rot	<i>B. arundinacea</i>	Kerala	Mohanani (1988).
	8). Phylum: Proteobacteria				
	40). Order: Pseudomonadales				
392	<i>Pseudomonas</i>	Infections of seeds	<i>B. bambos</i> , <i>B. tulda</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992).
		Rhizome decay	<i>B. arundinacea</i>	Kerala	Mohanani (1988).
	41). Order: Xanthomonadales				
393	<i>Xanthomonas</i>	Infections of seeds	<i>B. bambos</i> , <i>B. tulda</i> , <i>D. strictus</i>	Jabalpur, Madhya Pradesh	Jamaluddin (1992); Tewari (1992).
	9). Phylum: Zygomycota				
	42). Order: Endogonales				
394	<i>Gigaspora gigantea</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
395	<i>Gigaspora gilmorei</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
396	<i>Gigaspora margarita</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
397	<i>Gigaspora rosea</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
398	<i>Glomus aggregatum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
399	<i>G. albidum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
400	<i>G. derserticola</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
401	<i>G. diaphanum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
402	<i>G. dimorphicum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
403	<i>G. etunicatum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
404	<i>Glomus geosporum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
405	<i>G. intraradices</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
406	<i>G. inermium</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
407	<i>G. macrocarpum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
408	<i>G. monosporum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
409	<i>G. mossae</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
410	<i>G. occultum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
411	<i>G. reticulatum</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
412	<i>Scutellospora pellucida</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
	43). Order: Glomales				
413	<i>Acaulospora delicata</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
414	<i>A. foveata</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
415	<i>A. longula</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
416	<i>A. scrobiculata</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
417	<i>Sclerocystis microcarpus</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
418	<i>S. rubiformis</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
419	<i>S. sinuosa</i>	-	<i>D. strictus</i>	-	Pratiksha (1998).
	44). Order: Mucorales				
420	<i>Mucor</i> sp.	Infections of seeds	<i>B. bambos</i> , <i>D. strictus</i>	Kerala	Mohanani (1988, 2002).
			<i>D. brandisii</i>	Kodagu, Karnataka	Remadevi et al. (2009).
421	<i>Rhizopus</i> sp.	Infections of seeds	<i>B. bambos</i> , <i>B. tulda</i> , <i>T. Siamensis</i>	Jabalpur, Madhya Pradesh, Kerala	Jamaluddin (1992); Tewari (1992); Mohanani (2002).

	Phylum/Order of microbes	Part affected	Affected species	Geographic location	References
	10). Phylum: Nematoda				
	45). Order: Miscellaneous order				
422	<i>Hololainus</i> sp.	Root lesion nematode	Bamboo	-	Basu (1978).
423	<i>Randia & Xeromorphis</i>	Leaf rust, Nursery	<i>Oxytenanthera abeysannae</i>	-	Thirumalachar (1947); Spaulding, (1961); Bakshi & Singh (1967).
	11). Phylum: Virus				
424	<i>Bamboo mosaic virus</i>	Bamboo mosaic disease	<i>Guadua angustifolia</i>	Gottipura	Remadevi et al. (2009).
425	<i>Possibly a virus</i>	Leaf striping & seedling stunting	<i>B. bambos</i>	-	Mohanan (2006, 2008).
426	<i>Sugar cane mosaic virus</i>	Mosaic disease, Bamboo stands	Bamboo	-	Patil et al. (1980).
	12). Phylum: Myxomycota				
	46). Order: Myxomycetes				
427	<i>Arcyria ferruginea</i>	Rotting incidence	Bambusa sp.	-	Bruhl et al. (1927).
428	<i>A. insignis</i>	Bamboo posts	Bamboo	-	Bruhl et al. (1927).
429	<i>Craterium minutom</i>	Dead bamboo leaves	Bamboo	-	Kar (1964).
430	<i>Cribaria intricata</i>	Rotten bamboo stem	Bamboo	-	Ghosh & Dutta (1963).
431	<i>Diderma effusum</i>	Decaying bamboo mat	Bamboo	-	Indira (1968).
432	<i>Didymium clavus</i>	Decaying bamboo mat	Bamboo	-	Indira (1968).
433	<i>D. crustaceum</i>	Decaying bamboo mat	Bamboo	-	Indira (1968).
434	<i>D. dubium</i>	Twigs and bamboo mat	Bamboo	-	Indira (1969).
435	<i>Licea erecta</i>	Decaying bamboo twigs	Bamboo	-	Thind & Dhillon (1967).
436	<i>Physarum serpula</i>	Decaying bamboo mat	Bamboo	-	Indira (1968).
437	<i>P. sulphureum</i>	Decaying leaves	Bamboo	-	Agnihotrudu (1959).

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Table 2. Percentage incidence of the diseases in the different phyla

	Phylum	Disease incidence	% occurrence of the disease		
1	Ascomycota	Infection of inflorescence	1.24		
		Infection of seed	4.96		
		Nursery diseases	11.8		
		Foliage diseases	40.99		
		Culm diseases	24.22		
		Leaf sheath infection	1.24		
		Root and rhizome rot	1.86		
		Decay and deterioration of bamboo culms	6.21		
		Fungi on Dead bamboo	1.86		
		Occurrence of fungal isolates	5.59		
		2	Basidiomycota	Infection of inflorescence	1.25
				Infection of seed	0.63
Nursery diseases	10.62				
Foliage diseases	15.62				
Culm diseases	26.25				
Root & rhizome rot	10				
Decay and deterioration of bamboo culm	23.75				
3	Coelomycota	Fungi on dead bamboo	8.13		
		Occurrence of fungal isolates	3.75		
		Occurrence of fungal isolates	100		
4	Deuteromycota	Infection of seed	22.17		
		Nursery diseases	11.67		
		Foliage diseases	24.12		
		Culm diseases	17.12		
		Root and rhizome rot	6.22		
		Decay and deterioration of bamboo culms	15.96		
		Miscellaneous foliage and culm diseases	4.67		
5	Firmicutes	Occurrence of fungal isolates	2.72		
		Culm diseases	100		
		Root and rhizome rot	100		
		Root and rhizome rot	100		
		Infection of seed	66.66		
		Root and rhizome rot	33.33		
		9	Zygomycota	Infection of seeds	7.14
				Occurrence of fungal isolates	92.85
		10	Unknown phylum	Nursery diseases	50
				Root and rhizome rot	50
		11	Virus	Nursery diseases	25
				Foliage diseases	75
12	Myxomycetes	Decay and deterioration of bamboo culms	54.54		
		On dead bamboo	45.45		

Table 3. Percentage occurrence of the pathogens in different phyla

	Phylum	% occurrence of the pathogens in the phylum
1	Ascomycota	26.85
2	Basidiomycota	20.83
3	Coelomycota	0.23
4	Deuteromycota	39.35
5	Firmicutes	0.46
6	Nematoda	1.38
7	Oomycota	0.46
8	Proteobacteria	0.46
9	Zygomycota	6.25
10	Unknown phylum	0.46
11	Virus	0.69
12	Myxomycetes	2.54

Table 4. Infections and the order in which highest percentage of pathogens occur

	Infections	Order	Percentage
1	Foliage diseases	Moniliales	22.75%
2	Culm diseases	Moniliales	25.36%
3	Root/rhizome diseases	Polyporales	42.86%
4	Nursery diseases	Moniliales	45.10%
5	Infections of seeds	Moniliales	77.94%
6	Infections of Inflorescence	Ustilaginales	50.00%
7	Occurrence	Endogonales	41.30%
8	Miscellaneous foliage and culm infections	Sphaeriales	29.41%
		Sphaeropsidales	29.41%

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Communication

Flies matter: a study of the diversity of Diptera families (Insecta: Diptera) of Mumbai Metropolitan Region, Maharashtra, India, and notes on their ecological roles

-- Aniruddha H. Dhamorikar, Pp. 10865–10879

Short Communications

Small carnivores of the montane forests of Eravikulam National Park in the Western Ghats, India

-- S. Nikhil & P.O. Nameer, Pp. 10880–10885

Distribution and population of Himalayan Marmot *Marmota himalayana* (Hodgson, 1841) (Mammalia: Rodentia: Sciuridae) in Leh-Ladakh, Jammu & Kashmir, India

-- Vipin Chaudhary, R.S. Tripathi, Surjeet Singh & M.S. Raghuvanshi, Pp. 10886–10891

First record of Bourret's Horseshoe Bat *Rhinolophus paradoxolophus* (Mammalia: Chiroptera: Rhinolophidae) from Myanmar with a review of the taxonomy, distribution and ecology of the species

-- Sai Sein Lin Oo, Du Sar No, Lucia Nang Seng, Ngwe Lwin, Malcolm Pearch & Paul J.J. Bates, Pp. 10892–10898

A first record of the Smallfin Gulper Shark *Centrophorus moluccensis* Bleeker, 1860 (Chondrichthyes: Squaliformes: Centrophoridae) from the Andaman & Nicobar waters, Indian EEZ

-- H.D. Pradeep, Swapnil S. Shirke, M. Nashad & Monalisha Devi Sukham, Pp. 10899–10903

Taxonomic revision of the genus *Atmetonychus* (Coleoptera: Curculionidae: Entiminae) from the Indian subcontinent

-- G. Mahendiran & V.V. Ramamurthy, Pp. 10904–10908

A new species of dewflower *Murdannia sanjappae* (Commelinaceae) from Andaman Islands, India

-- Mudavath Chennakesavulu Naik & Boyina Ravi Prasad Rao, Pp. 10909–10913

First records of two Ginger Lily *Hedychium* (Zingiberaceae) species from the Western Ghats, India

-- Sinjumol Thomas, Susai John Britto & Bince Mani, Pp. 10914–10919

An annotated checklist of microbes associated with bamboo in the Indian subcontinent

-- O.K. Remadevi, P. Sharada & H.C. Nagaveni, Pp. 10920–10947

Notes

Roadkill records of Lowland Tapir *Tapirus terrestris* (Mammalia: Perissodactyla: Tapiridae) between kilometers 06 and 76 of highway BR-163, state of Pará, Brazil

-- Marco A. de Freitas, Rodrigo C. Printes, Eric K. Motoyama, Assor E. Fucks & Diogo Veríssimo, Pp. 10948–10952

Population size, herd structure and sex ratio of the Blackbuck *Antelope Cervicapra* (Mammalia: Cetartiodactyla: Bovidae) in a human dominated area in Odisha, India

-- Subrat Debata, Pp. 10953–10955

Recovery of Musk Deer *Moschus chrysogaster* Hodgson, 1839

(Artiodactyla: Moschidae) in Sakteng Wildlife Sanctuary, Bhutan

-- Sonam Tobgay, Thinley Wangdi & Kumbu Dorji, Pp. 10956–10958

First record of the Asiatic Brush-tailed Porcupine

***Atherurus macrourus* Linnaeus, 1758 (Mammalia: Rodentia:**

Hystricidae) from western Bhutan

-- Tashi Dhendup & Rinzin Dorji, Pp. 10959–10960

The Vulnerable Indian Skimmer *Rynchops albicollis* Swainson, 1838

(Aves: Charadriiformes: Laridae) breeding in Odisha, eastern India

-- Subrat Debata, Tuhinansu Kar, Kedar Kumar Swain & Himanshu Shekhar Palei, Pp. 10961–10963

On the occurrence of Black Baza *Aviceda leuphotes* Dumont, 1820

(Aves: Falconiformes: Accipitridae) in the Guptaeswar forests of the Eastern Ghats, Odisha, India

-- Swetashree Purohit, Manoj V. Nair & Sharat Kumar Palita, Pp. 10964–10967

New locality records of the Stout Sand Snake *Psammodon*

***longifrons* Boulenger, 1890 (Reptilia: Squamata: Lamprophiidae) in Telangana, India**

-- Avinash C. Visvanathan, Sandeep Anne & Aditya Kesav Kolli, Pp. 10968–10970

A note on the distribution of two highly threatened butterflies in

Sri Lanka (Lepidoptera: Lycaenidae: *Spindasis greeni* and *Rapala*

lankana*), with a report on the range extension of *S. greeni

-- Tharaka Sudesh Priyadarshana, Ishara Harshajith Wijewardhane & Mithila Karunaratna, Pp. 10971–10973

A new record of grass *Ottocloa* (Poaceae) to the Eastern Ghats, India

-- Midigesi Anil Kumar, P. Anjaneyulu & Boyina Ravi Prasad Rao, Pp. 10974–10976

An extended distribution of Natesh's Cape-pondweed *Aponogeton*

***nateshii* (Aponogetonaceae), a new record to the state of Goa**

-- Rutuja Rajendra Kolte, Anup Satish Deshpande, Prabha Muraleedharan Pillai & Shrirang Ramchandra Yadav, Pp. 10977–10979

Detection of *Artyfechinostomum sufrartyfex* - a zoonotic parasite

from the Small Indian Mongoose *Herpestes auropunctatus*

(Mammalia: Carnivora: Herpestidae) in Jammu & Kashmir, India

-- Sanku Borkataki, Pankaj Goswami, Rajesh Katoch, Sahil Kumar & Pratiksha Raghuvanshi, Pp. 10980–10982

Book Review

Requisite for long term studies in ecology

-- S. Suresh Ramanan, Pp. 10983–10984

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