

A checklist of the macrofungi of North East India

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Abstract

A literature-based checklist of macrofungi occurring in North East India is provided. It consists of 733 species of macrofungi distributed over 267 genera under 21 orders and 94 families. The relevant information provided herein is based on 86 papers and six doctoral theses. The geographical distribution of the reports covers eight states of North East India. The order Agaricales has the highest number of species (330 spp.) followed by Polyporales (126 spp.). The three most represented genera are *Russula* (38 spp.), *Amanita* (22 spp.) and *Lactarius* (23 spp.). This list covers only a part of the actual diversity of macrofungi occurring in the entire North East Indian region as detailed survey on macrofungi of this region is yet to be completed.

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INTRODUCTION

The North East region of India is situated between 22°–29°5' N latitude and 88°–97°30' E longitude encompassing the Indian states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura, and sharing its international boundaries with countries such as Bangladesh, Bhutan, China, Myanmar and Nepal^[1]. The entire area is mostly covered by mountains and hills with nearly two-thirds of the land area falling under hilly and mountainous terrain. The region is unique, having a diversity of topographical features ranging from the plains of the Barak and Brahmaputra valleys on the western side, the hills of Tripura and Mizoram on the southern corner, the chain of hills in the fringe of Indo-Myanmar on the eastern part and towards the northern side surrounded by the Himalayan range in Arunachal Pradesh and Sikkim^[2]. The region forms an important convergence of two of the most significant biological hotspots in the world viz., the Himalayas and the Indo-Burma Biological Hotspots^[3].

The vegetation of the entire North-East Indian region varies considerably depending upon the altitudinal ranges and forest types. Among all the states, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, and Tripura have forest cover of more than 70% compared to the total geographical area^[4]. However, characteristic forest types of the entire region include tropical dry deciduous forests, tropical moist deciduous forest, tropical semi-evergreen forests (up to 600 m asl), tropical wet evergreen forests (up to 900 m asl), subtropical broadleaved forests (900–1,900 m asl), subtropical pine forests (1,000–3,500 m asl), montane wet temperate forests, Himalayan dry temperate forests, Himalayan moist temperate forests, littoral and swamp forests, alpine temperate forests (above 3,500 m asl), moist alpine scrub, and sub-alpine forests^[4,5]. The dominant plant species in the alpine temperate forests are *Rhododendron* L., *Arenaria* L., and *Saxifraga* L. Subtropical pine forests typically show a prevalence of the *Pinus* L. species like *P. roxburghii* Sarg., *P. merkusii* Jungh. & de Vriese, and *P.*

wallichiana A.B.Jacks. The plants prevailing in the subtropical broadleaved forests include *Castanopsis* (D.Don) Spach, *Quercus* L., *Michelia* T.Durand, *Alnus* Mill., and *Schima* Aucl. ex Steud. whereas, the tropical wet evergreen forests typically show the presence of *Dipterocarpus macrocarpus* Vesque, *Shorea assamica* Dyer, *Mesua ferrea* L., and *Altingia excelsa* Noronha, and tropical semi-evergreen forests are represented *Terminalia myriocarpa* Van Heurck & Müll.Arg., *Bombax ceiba* L., *Canarium strictum* Roxb., *Ailanthus grandis* Prain, etc.^[5].

The climatic conditions in the region are mostly subtropical with hot and humid summers, extreme monsoons and mild winters^[6,7]. The temperature differs according to the altitude with the mean average temperature (28 °C in summer and 16–17 °C in the winter) being much lower in the Himalayan region (1,200–1,500 m asl) to higher in the plains (50–100 m asl). A high precipitation rate with heavy rainfall is prevalent in the region^[6,7]. The annual average rainfall is more than 1,000 mm^[6]. The soil of the region is alluvial and colluvial in origin and characteristically shows low pH due to leaching of the bases under the influence of heavy precipitation^[8]. The soils are considerably rich in organic matter.

These wide arrays of phyto-topographical features, prevailing climatic, and edaphic characteristics makes ample prospects for the luxuriant growth of macrofungi in the region. However, no serious effort has previously been made to study the macrofungal diversity of this region. Several reasons have contributed to the uneven studies of the macrofungal diversity which include the tough geography, climate, inaccessibility and lack of trained mycologists.

MATERIALS AND METHODS

The checklist was prepared based on available published literature as well as doctoral thesis up to 31 December 2021. For systematic and nomenclatural correctness, Index Fungorum (<http://indexfungorum.org>; accessed 22 January 2022) and MycoBank (<https://www.mycobank.org>; accessed 22 January

2022) databases were consulted. Names of the taxa that are not reported earlier up to species level in the literature are excluded. In the checklist, order, family, genus, and species are arranged alphabetically. The map showing the North-East Indian region has been prepared using QGIS software.

RESULTS AND DISCUSSIONS

The entire North-east Indian region (Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, and Tripura) lists a total of 733 macrofungal taxa (Fig 1) belonging to 94 families and 21 orders (Table 1). The highest number of macrofungi was reported from the state of Assam (314 species), followed by Nagaland (237 species), Meghalaya (169 species), Sikkim (143 species), Tripura (134 species), Mizoram (118 species), Manipur (27 species), and Arunachal Pradesh (11 species). The order Agaricales has the highest number of

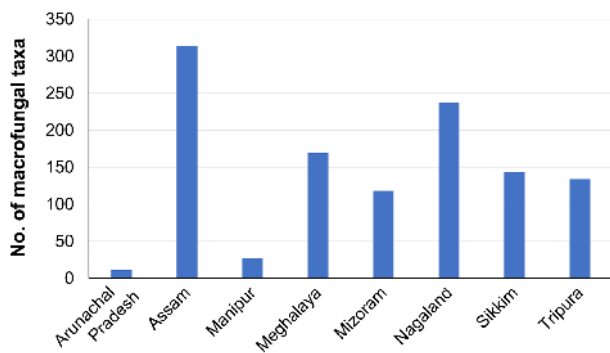


Fig. 1 Overview of the macrofungal diversity in different states of North-East India.

species (330 species) followed by Polyporales (126 species). The three most represented genera are *Russula* (38 spp.), *Amanita* (22 spp.), and *Lactarius* (23 spp.). Of the different families represented, Polyporaceae is with the highest number of taxa (85 species) followed by Russulaceae (70 species), and Agaricaceae (63 species). However, the majority of the families (21) were represented by a single taxon (Table 2).

This list covers only a part of the actual diversity of macrofungi occurring in the entire North-East Indian region as detailed surveys on macrofungi of this region is lacking. In short, this list represents only a cross section of the actual diversity of macrofungi of the region. Detailed area wise and genus wise study is essential to have a complete picture of the actual diversity of the region.

CONCLUSIONS

A literature-based checklist of the macrofungal diversity of the North-East Indian region is presented as of today. It clearly indicates the need for a thorough explorative inventory of the macrofungi of the region especially in states such as Arunachal Pradesh, Manipur, Mizoram, Tripura, Sikkim, and Meghalaya. In short, research on the macrofungi in the region has been inconsistent, and insufficient and it actually represents a small portion of the region's actual macrofungal diversity. The majority of surveys have taken place in a few easily accessible areas of the North-east Indian states, while several of the state's dense forests are under explored for macrofungi. In this backdrop, area wise and genus wise study is necessary using modern tools to get a clear understanding of the actual diversity of the region which is of paramount importance.

Table 1. List of macrofungi reported from North-East India with details.

Name of the taxa	Distribution	References
AGARICALES		
Agaricaceae		
<i>Agaricus abruptibulbus</i> Peck	Sikkim: Dombang	[9]
<i>Agaricus arvensis</i> Schaeff.	Assam: Tinsukia, Garbhanga Reserve Forest, Hollongapar Gibbon Wildlife Sanctuary, Jeypore Reserve Forest; Nagaland: Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest	[10–15]
<i>Agaricus augustus</i> Fr.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17]
<i>Agaricus bisporus</i> (J.E. Lange) Imbach	Assam: Dhemaji district, Kaliabar; Manipur: Langol herbal garden; Meghalaya: Mawlai, Upper Shillong, Lapalang	[15, 18–22]
<i>Agaricus campestris</i> L.	Assam: Dhemaji district, Golaghat; Manipur: Ukhrul District; Nagaland: Kohima; Tripura: Chandmari	[14, 18, 19, 23–25]
<i>Agaricus crocopeplus</i> Berk. & Broome	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Agaricus impudicus</i> (Rea) Pilát	Assam: Garbhanga Reserve Forest	[13,15]
<i>Agaricus langei</i> (F.H. Møller) F.H. Møller	Nagaland: Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest	[10]
<i>Agaricus moelleri</i> Wasser	Nagaland; Tripura: Salbagan	[17,25,26]
<i>Agaricus placomyces</i> Peck	Tripura: Sipahijala WS	[25]
<i>Agaricus porphyrocephalus</i> F.H. Møller	Assam: Dhemaji	[27]
<i>Agaricus semotus</i> Fr.	Assam: Kokrajhar, Umrangso subdivision of Dima Hasao district	[28,29]
<i>Agaricus siccus</i> Schwein.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Agaricus smithii</i> Klotzsch	Assam: Dhemaji	[27]
<i>Agaricus sylvaticus</i> Schaeff.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Aizawl; Nagaland: Kohima	As <i>Agaricus sylvatica</i> [18], [12,23,30]
<i>Agaricus trisulphuratus</i> Berk.	Mizoram: Aizawl; Tripura: Atharamura	[25,30]
<i>Agaricus xanthodermus</i> Genev.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17]
<i>Chlorophyllum hortense</i> (Murrill) Vellinga	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]

(to be continued)

Macrofungual checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Chlorophyllum molybdites</i> (G. Mey.) Massee	Assam: Sibsagar, Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Aizawl; Tripura: Koromura	[12,14,25,30]
<i>Chlorophyllum olivieri</i> (Barla) Vellinga	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Chlorophyllum rhacodes</i> (Vittad.) Vellinga	Assam: Jorhat	As <i>Macrolepiota rhacodes</i> [14]
<i>Clarkeinda trachodes</i> (Berk.) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Coprinus comatus</i> (O.F. Müll.) Pers.	Assam: Nagaon; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[15–17,26,31,32]
<i>Crucibulum laeve</i> (Huds.) Kambly	Nagaland	[17,26]
<i>Cyathus griseocarpus</i> H.J. Brodie & B.M. Sharma	Manipur: Ukhrul	[33]
<i>Cyathus hookeri</i> Berk.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Meghalaya: Kollong rock (Khashia hills)	[34,35]
<i>Cyathus intermedius</i> (Mont.) Tul. & C. Tul.	Tripura: Paratia	[25]
<i>Cyathus limbatus</i> Tul. & C. Tul.	Meghalaya: Nongpoh, Khasi hills	[36]
<i>Cyathus microsporus</i> Tul. & C. Tul.	Meghalaya: Khasi hills	[35]
<i>Cyathus novae-zeelandiae</i> Tul. & C. Tul.	Assam: Jatinga (Haflong, N.C. Hills)	[35]
<i>Cyathus olla</i> (Batsch) Pers.	Assam: Dhemaji; Meghalaya: East Khasi Hills	[15,27,37]
<i>Cyathus poeppigii</i> Tul. & C. Tul.	Arunachal Pradesh: West Kameng district, Bomdila and Nichifu	[38]
<i>Cyathus stercoreus</i> (Schwein.) De Toni	Meghalaya: Khasi hills	[39]
<i>Cyathus striatus</i> Willd.	Arunachal Pradesh: Doimukh; Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Mount Puliebadze, Phek	[15,34,40–44]
<i>Cyathus triplex</i> Lloyd	Tripura: Agartala, Baramulah	[35]
<i>Lepiota apatelii</i> Vellinga & Huijser	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Lepiota clypeolaria</i> (Bull.) P. Kumm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Lepiota cristata</i> (Bolton) P. Kumm.	Assam: Garbhanga Reserve Forest; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Salbagan	[16,17,25,26,45]
<i>Lepiota decorata</i> Zeller	Assam	[15]
<i>Lepiota echinella</i> Quéf. & G.E. Bernard	Mizoram: Aizawl	[30]
<i>Lepiota erythrostickta</i> (Berk. & Broome) Sacc.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Lepiota felina</i> (Pers.) P. Karst.	Nagaland	[17]
<i>Lepiota lilacea</i> Bres.	Nagaland: Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest	[10,17]
<i>Lepiota magnispora</i> Murrill	Nagaland: Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest	[10]
<i>Leucoagaricus lacrymans</i> (T.K.A. Kumar & Manim.) Z.W. Ge & Zhu L. Yang	Northeast	[46]
<i>Leucoagaricus leucothites</i> (Vittad.) Wasser	Assam: Hollongapar Gibbon Wildlife Sanctuary, Nagaon	[12,14]
<i>Leucocoprinus birnbaumii</i> (Corda) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Aizawl; Nagaland	[12,17,30]
<i>Leucocoprinus brebissonii</i> (Godey) Locq.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Nagaland	[12,17]
<i>Leucocoprinus cepistipes</i> (Sowerby) Pat.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Tripura: Salbagan	[12,25]
<i>Leucocoprinus cretaceus</i> (Bull.) Locq.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Tripura: Melagarh	As <i>Leucocoprinus cretatus</i> [12], [25]
<i>Leucocoprinus flavescens</i> (Morgan) H.V. Sm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Leucocoprinus fragilissimus</i> (Ravenel ex Berk. & M.A. Curtis) Pat.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Nagaland; Tripura: Salbagan	[12,17,25]
<i>Leucocoprinus medioflavus</i> (Boud.) Bon	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Macrolepiota albuminosa</i> (Berk.) Pegler	Assam: Hollongapar Gibbon Wildlife Sanctuary, Sivasagar; Nagaland	[12,17,26,31,47], as <i>Termitomyces albuminosus</i> [12,47]
<i>Macrolepiota dolichaula</i> (Berk. & Broome) Pegler & R.W. Rayner	Assam: Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Aizawl, Champhai	[12,30,48]
<i>Macrolepiota excoriata</i> (Schaeff.) Wasser	Assam: Garbhanga Reserve Forest	[45]
<i>Macrolepiota mastoidea</i> (Fr.) Singer	Tripura: Dalubari	[25]
<i>Macrolepiota procera</i> (Scop.) Singer	Assam: Nagaon, Garbhanga Reserve Forest, Golaghat, Kokrajhar district; Mizoram: Aizawl; Tripura: Suryamaninagar, AD. Nagar	[13–15,25,30,32,49,50]
<i>Nidula candida</i> (Peck) V.S. White	Sikkim: Between Hillely and Barsey	[38]
<i>Nidula emodensis</i> (Berk.) Lloyd	Sikkim: Lachen	[51]
<i>Nidula niveotomentosa</i> (Henn.) Lloyd	Meghalaya	[52]
<i>Nidula shingbaensis</i> K. Das & R.L. Zhao	Sikkim: Shingba <i>Rhododendron</i> Sanctuary	[53]
<i>Podaxis pistillaris</i> (L.) Fr.	Assam	[15]
Amanitaceae		
<i>Amanita angustilamellata</i> (Höhn.) Boedijn	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Amanita caesarea</i> (Scop.) Pers.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Amanita chepangiana</i> Tulloss & Bhandary	Assam: Umrangso subdivision of Dima Hasao district	[29]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Amanita citrina</i> Pers.	Assam: Dhemaji district	[15,27]
<i>Amanita cokeri</i> E.-J. Gilbert & Kühner ex E.-J. Gilbert	Nagaland	[17,26]
<i>Amanita constricta</i> Thiers & Ammirati	Tripura: Sipahijala WS	[25]
<i>Amanita crocea</i> (QuéL.) Singer	Mizoram: Aizawl	[30]
<i>Amanita farinosa</i> Schwein.	Tripura: Amarpur	[25]
<i>Amanita flavoconia</i> G.F. Atk.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17]
<i>Amanita franchetii</i> (Boud.) Fayod	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Amanita fulva</i> Fr.	Meghalaya: Narpuh Reserve Forest; Manipur: Langol herbal garden; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,21,26,54]
<i>Amanita griseofolia</i> Zhu L. Yang	Mizoram: Aizawl	[30]
<i>Amanita hemibapha</i> (Berk. & Broome) Sacc.	Assam: Umrangso subdivision of Dima Hasao district	[29]
<i>Amanita jacksonii</i> Pomerl.	Mizoram: Aizawl; Tripura: Sipahijala WS	[25,30]
<i>Amanita pachycolea</i> D.E. Stuntz	Mizoram: Aizawl	[30]
<i>Amanita pantherina</i> (DC.) Krombh.	Assam: Jeyapore Reserve Forest; Meghalaya: Narpuh Reserve Forest; Mizoram: Aizawl	[11,30,54,55]
<i>Amanita phalloides</i> (Vaill. ex Fr.) Link	Mizoram: Aizawl; Nagaland; Tripura: Boxonagar	[17,25,26,30]
<i>Amanita rubrovolvata</i> S. Imai	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26]
<i>Amanita spissacea</i> S. Imai	Mizoram: Aizawl	[30,56]
<i>Amanita strobiliformis</i> (Paulet ex Vittad.) Bertill.	Nagaland	[17,26,31]
<i>Amanita vaginata</i> (Bull.) Lam.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Manipur: Langol herbal garden; Meghalaya: Narpuh Reserve Forest; Mizoram: Aizawl; Nagaland	[12,17,21,26,30,54]
<i>Amanita virosa</i> Bertill.	Nagaland	[17,26]
Bolbitiaceae		
<i>Bolbitius titubans</i> (Bull.) Fr.	Assam: Goalpara	[14]
<i>Conocybe apala</i> (Fr.) Arnolds	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Conocybe lactea</i> [12]
<i>Conocybe cyanopus</i> (G.F. Atk.) Kühner	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Pholiotina cyanopus</i> [12]
<i>Conocybe juniana</i> (Velen.) Hauskn. & Svrček	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Conocybe sordescens</i> [12]
Callistosporiaceae		
<i>Macrocybe gigantea</i> (Masse) Pegler & Lodge	Nagaland: Kohima district; Tripura: Taidu, Udaipur	[50], as <i>Tricholoma giganteum</i> [23]
Clavariaceae		
<i>Clavaria fragilis</i> Holmsk.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[17,26,31], as <i>Clavaria vermicularis</i> [16]
<i>Clavaria fumosa</i> Pers.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Clavaria straminea</i> Cotton	Assam: Garbhanga Reserve Forest	[13]
<i>Clavulinopsis corallinosacea</i> (Cleland) Corner	Mizoram: Aizawl	[30]
<i>Clavulinopsis fusiformis</i> (Sowerby) Corner	Assam: Garbhanga Reserve Forest; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Boxonagar	[15–17,25,26,45]
<i>Clavulinopsis laeticolor</i> (Berk. & M.A. Curtis) R.H. Petersen	Mizoram: Aizawl	[30]
<i>Ramariopsis kunzei</i> (Fr.) Corner	Mizoram: Aizawl	As <i>Ramaria kunzei</i> [30]
Cortinariaceae		
<i>Cortinarius alboviolaceus</i> (Pers.) Fr.	Assam: Dhemaji, Nagaon	[27,32]
<i>Cortinarius croceus</i> (Schaeff.) Gray	Mizoram: Aizawl	[30]
<i>Cortinarius helvolus</i> (Fr.) Fr.	Mizoram: Aizawl	[30]
<i>Cortinarius iodes</i> Berk. & M.A. Curtis	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Cortinarius purpurascens</i> Fr.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26]
<i>Cortinarius sanguineus</i> (Wulfen) Gray	Meghalaya	[55]
<i>Cortinarius smithii</i> Ammirati, Niskanen & Liimat.	Mizoram: Aizawl	As <i>Cortinarius phoeniceus</i> var. <i>occidentalis</i> [30]
<i>Cortinarius violaceus</i> (L.) Gray	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
Crepidotaceae		
<i>Crepidotus alabamensis</i> Murrill	Tripura: Vanghmun	[25]
<i>Crepidotus applanatus</i> (Pers.) P. Kumm.	Nagaland: Phek; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Barjala	[16,17,25,26,42]
<i>Crepidotus luteolus</i> Sacc.	Nagaland	[17,26]
<i>Crepidotus mollis</i> (Schaeff.) Staude	Nagaland; Tripura: Garjee	[17,25,26]
<i>Crepidotus variabilis</i> (Pers.) P. Kumm.	Assam; Nagaland	[15,17]
Entolomataceae		
<i>Clitopilus prunulus</i> (Scop.) P. Kumm.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Entoloma hainanense</i> T.H. Li & Xiao L. He	Mizoram: Aizawl	[30]

(to be continued)

Macrofungal checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Entoloma holoconiotum</i> (Largent & Thiers) Noordel. & Co-David	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Entoloma lividoalbum</i> (Kühner & Romagn.) Kubička	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Entoloma murrayi</i> (Berk. & M.A. Curtis) Sacc. & P. Syd.	Nagaland	[17]
<i>Entoloma theekshnagandhum</i> Manim., A.V. Joseph & Leelav.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Entoloma vernum</i> S. Lundell	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
Fistulinaceae		
<i>Fistulina hepatica</i> (Schaeff.) With.	Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Lumami village; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,37,43,52,57]
Hydnangiaceae		
<i>Laccaria amethystina</i> Cooke	Assam: Hollongapar Gibbon Wildlife Sanctuary; Meghalaya: Narpuh Reserve Forest	[12,54]
<i>Laccaria bicolor</i> (Maire) P.D. Orton	Assam: Jeypore Reserve Forest	[11]
<i>Laccaria fraterna</i> (Sacc.) Pegler	Tripura: Salbagan	[25]
<i>Laccaria laccata</i> (Scop.) Cooke	Assam: Hollongapar Gibbon Wildlife Sanctuary; Meghalaya: Narpuh Reserve Forest, Upper Shillong Reserve Forest; Nagaland	[12,15,17,54,55]
<i>Laccaria lateritia</i> Malençon	Meghalaya	[58]
<i>Laccaria proxima</i> (Boud.) Pat.	Tripura: Tlakchi	[25]
<i>Laccaria tortilis</i> (Bolton) Cooke	Nagaland	[17,26,31]
<i>Laccaria vinaceoavellanea</i> Hongo	Meghalaya; Mizoram: Aizawl	[30,59]
<i>Laccaria yunnanensis</i> Popa, Rexer, Donges, Zhu L. Yang & G. Kost	Mizoram: Aizawl	[30]
Hygrophoraceae		
<i>Chromosera cyanophylla</i> (Fr.) Redhead, Ammirati & Norvell	Tripura: Trishna WS	[25]
<i>Cuphophyllus pratensis</i> (Pers.) Bon	Manipur: Langol herbal garden; Meghalaya: Narpuh Reserve Forest	[21,54]
<i>Gliphorus psittacinus</i> (Schaeff.) Herink	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Hygrocybe psittacina</i> [16]
<i>Hygrocybe acutoconica</i> (Clem.) Singer	Tripura: Sipahijala WS	[25]
<i>Hygrocybe cantharellus</i> (Schwein.) Murrill	Nagaland	[17,26]
<i>Hygrocybe chlorophana</i> (Fr.) Wünsche	Assam: Dhemaaji	As <i>Hygrophorus chlorophanus</i> [27]
<i>Hygrocybe conica</i> (Schaeff.) P. Kumm.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Salbagan	[16,17,25,26,31]
<i>Hygrocybe lanecovensis</i> A.M. Young	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Hygrocybe miniata</i> (Fr.) P. Kumm.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Nagaland	[12,15,17,26]
<i>Hygrocybe punicea</i> (Fr.) P. Kumm.	Assam: Dhemaaji	As <i>Hygrophorus puniceus</i> [27]
<i>Hygrocybe reidii</i> Kühner	Tripura: Salbagan	[25]
<i>Hygrocybe spadicea</i> (Scop.) P. Karst.	Tripura: Sipahijala WS	[25]
<i>Hygrophorus eburneus</i> (Bull.) Fr.	Assam: Dhemaaji	[27]
<i>Hygrophorus gliocyclus</i> Fr., Öfvers. K. VetenskAkad	Assam: Garbhanga Reserve Forest	[45]
<i>Hygrophorus marzuolus</i> (Fr.) Bres.	Tripura: Trishna WS	[25]
<i>Lichenomphalia umbellifera</i> (L.) Redhead, Lutzoni, Moncalvo & Vilgalys	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26]
Inocybaceae		
<i>Inocybe aurantifolia</i> Beller	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Inocybe geophylla</i> P. Kumm.	Meghalaya: Narpuh Reserve Forest	[54]
<i>Inocybe parvibulbosa</i> E. Horak, Matheny & Desjardin	Tripura: Vangmun	[25]
<i>Inocybe petchii</i> Boedijn	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Inosperma erubescens</i> (A. Blytt) Matheny & Esteve-Rav.	Meghalaya: Narpuh Reserve Forest	[54]
<i>Pseudosperma perlatum</i> (Cooke) Matheny & Esteve-Rav.	Meghalaya: Narpuh Reserve Forest	As <i>Inocybe perlata</i> [54], [55]
<i>Pseudosperma rimosum</i> (Bull.) Matheny & Esteve-Rav.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Tripura: Durjainagar	As <i>Inocybe rimosus</i> [25], as <i>Inocybe fastigiata</i> [12]
<i>Pseudosperma sororium</i> (Kauffman) Matheny & Esteve-Rav.	Meghalaya	As <i>Inocybe sororia</i> [55]
Lycoperdaceae		
<i>Apioperdon pyriforme</i> (Schaeff.) Vizzini	Assam: Jeypore Reserve Forest, Garbhanga Reserve Forest, Hollongapar Gibbon Wildlife Sanctuary, Jorhat; Nagaland: Phek; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Lycoperdon pyriforme</i> [11,16,18,42], as <i>Morganella pyriformis</i> [34], [13–15,17]
<i>Bovista longispora</i> Kreisel	Assam: Hollongapar Gibbon Wildlife Sanctuary	[34]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Bovista plumbea</i> Pers.	Assam: Garbhanga Reserve Forest, Hollongapar Gibbon Wildlife Sanctuary	[34,45]
<i>Bovistella utriformis</i> (Bull.) Demoulin & Rebriev	Tripura: Melagarh	As <i>Lycoperdon utriforme</i> [25]
<i>Calvatia candida</i> (Rostk.) Hollós	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Calvatia rubroflava</i> [34]
<i>Calvatia cyathiformis</i> (Bosc) Morgan	Assam: Hollongapar Gibbon Wildlife Sanctuary, Dhemaji	[27,34]
<i>Calvatia gigantea</i> (Batsch) Lloyd	Assam; Meghalaya: Khasi Hills; Nagaland: Kohima	[18,23,60]
<i>Lycoperdon dermoxanthum</i> Vittad	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Bovista dermoxantha</i> [34]
<i>Lycoperdon elongatum</i> Berk.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Lycoperdon endotephrum</i> Pat.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Vascellum endotephrum</i> [16]
<i>Lycoperdon excipuliforme</i> (Scop.) Pers.	Mizoram: Aizawl	[30]
<i>Lycoperdon perlatum</i> Pers.	Assam: Dhemaji district; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Mizoram: Aizawl; Nagaland	[15–17,26,30,31]
Lyophyllaceae		
<i>Hypsizygus tessulatus</i> (Bull.) Singer	Mizoram: Champhai; Nagaland: Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest	[10,48]
<i>Hypsizygus ulmarius</i> (Bull.) Redhead	Assam: Dhemaji, Nagaon	[27], as <i>Pleurotus ulmarius</i> [32]
<i>Lyophyllum decastes</i> (Fr.) Singer	Assam: Nagaon	As <i>Clitocybe conglobate</i> [32]
<i>Termitomyces clypeatus</i> R. Heim	Assam: Hollongapar Gibbon Wildlife Sanctuary; Manipur: Ukhrul District; Mizoram: Aizawl	[12,18,24,30]
<i>Termitomyces eurrhizus</i> (Berk.) R. Heim	Assam: Kokrajhar district; Manipur: Senapati, Ukhrul District; Nagaland: Kohima; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Subalsingh, Agartala	[16,17,23–26,31,49,50,61]
<i>Termitomyces heimii</i> Natarajan	Assam: Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Champhai; Nagaland; Tripura: Durjainagar, Agartala	[12,17,25,26,31,48,50,62]
<i>Termitomyces mammiformis</i> R. Heim	Assam: Dhemaji district	[15,18,19]
<i>Termitomyces medius</i> R. Heim & Grassé	Assam: Hollongapar Gibbon Wildlife Sanctuary; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[12,16]
<i>Termitomyces microcarpus</i> (Berk. & Broome) R. Heim	Assam; Nagaland; Tripura: Tlansang	[15,17,18,25,26]
<i>Termitomyces robustus</i> (Beeli) R. Heim	Assam; Mizoram: Aizawl	[18,30]
<i>Termitomyces striatus</i> (Beeli) R. Heim	Assam	[15]
<i>Termitomyces umkowaan</i> (Cooke & Masee) D.A. Reid	Tripura: Suryamaninagar	[25]
Marasmiaceae		
<i>Baeospora myosura</i> (Fr.) Singer	Assam: Nagaon	[32]
<i>Collybiopsis peronata</i> (Bolton) R.H. Petersen	Assam: Dhemaji	As <i>Marasmius urens</i> [27], [15]
<i>Favolaschia calocera</i> R. Heim	Nagaland: Phek	[42]
<i>Gerronema strombodes</i> (Berk. & Mont.) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Gerronema viridilucens</i> Desjardin, Capelari & Stevani	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Marasmius calhouniae</i> Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Marasmius capillaris</i> Morgan	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Marasmius cohaerens</i> (Pers.) Cooke & Quéf.	Assam: Kokrajhar district	[49]
<i>Marasmius curreyi</i> Berk. & Broome	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Marasmius desjardinii</i> K. Das, Antonin & D. Chakr.	Sikkim: South district, Tinkitam	[63]
<i>Marasmius epiphyllus</i> (Pers.) Fr.	Assam: Kaliabar	[22,32]
<i>Marasmius epodius</i> Bres.	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Marasmius anomalus</i> [12]
<i>Marasmius haematocephalus</i> (Mont.) Fr.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12,15]
<i>Marasmius indopurpleostriatus</i> K. Das, A.K. Dutta & K. Acharya	Sikkim: East district, Churten	[64]
<i>Marasmius jasminodorus</i> Wannathes, Desjardin & Lumyong	Tripura: Salbagan	[25]
<i>Marasmius oreades</i> (Bolton) Fr.	Assam: Dhemaji; Tripura: Trishna WS	[25,27]
<i>Marasmius praecox</i> Singer	Tripura: Suryamaninagar	[25]
<i>Marasmius pulcheripes</i> Peck	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Marasmius rotula</i> (Scop.) Fr.	Assam: Garbhanga Reserve Forest	[45]
<i>Marasmius siccus</i> (Schwein.) Fr.	Assam: Dhemaji, Hollongapar Gibbon Wildlife Sanctuary; Tripura: Vanghmun	[12,15,25,27]
<i>Marasmius sullivantii</i> Mont.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Tripura: Salbagan	[12,25]
<i>Marasmius wynneae</i> Berk. & Broome	Assam: Dhemaji, Hollongapar Gibbon Wildlife Sanctuary	[27], as <i>Marasmius wynnei</i> [12]

(to be continued)

Macrofungual checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Megacollybia rodmanii</i> R.H. Petersen, K.W. Hughes & Lickey	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
Mycenaceae		
<i>Mycena abramsii</i> (Murrill) Murrill	Assam: Nagaon	[32]
<i>Mycena capillaripes</i> Peck	Assam: Dhemaji	[27]
<i>Mycena erubescens</i> Höhn.	Nagaland	[17,26]
<i>Mycena galopus</i> (Pers.) P. Kumm.	Nagaland	[17]
<i>Mycena haematopus</i> (Pers.) P. Kumm.	Tripura: Korongbari	[25]
<i>Mycena inclinata</i> (Fr.) Quéf.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,26]
<i>Mycena interrupta</i> (Berk.) Sacc.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Mycena leaiana</i> (Berk.) Sacc.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[12,16]
<i>Mycena leptocephala</i> (Pers.) Gillet	Assam: Dhemaji, Hollongapar Gibbon Wildlife Sanctuary	[12,27]
<i>Mycena maculata</i> P. Karst.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Mycena rosea</i> Gramberg	Assam: Golaghat	[14]
<i>Panellus stipticus</i> (Bull.) P. Karst.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Roridomyces phyllostachydis</i> Karun., Mortimer & Axford	Meghalaya: East Khasi Hills	[65]
<i>Xeromphalina kauffmanii</i> A.H. Sm.	Nagaland	[17]
Omphalotaceae		
<i>Collybiopsis confluens</i> (Pers.) R.H. Petersen	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Gymnopus confluens</i> [12]
<i>Collybiopsis stenophylla</i> (Mont.) R.H. Petersen	Tripura: Tlangsang	As <i>Marasmiellus stenophyllus</i> [25]
<i>Gymnopus androsaceus</i> (L.) Della Magg. & Trassin.	Assam: Jeypore Reserve Forest	As <i>Marasmius androsaceus</i> [11]
<i>Gymnopus fagiphilus</i> (Velen.) Antonín, Halling & Noordel.	Tripura: Debdabari	[25]
<i>Gymnopus foetidus</i> (Sowerby) P.M. Kirk	Mizoram: Hmuifang Forest	As <i>Micromphale foetidum</i> [43]
<i>Gymnopus impudicus</i> (Fr.) Antonín, Halling & Noordel.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Gymnopus putillus</i> (Fr.) Antonín, Halling & Noordel.	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi	As <i>Marasmius putillus</i> [40]
<i>Lentinula edodes</i> (Berk.) Pegler	Assam: Kaliabar, Garbhanga Reserve Forest; Manipur: Ukhrul District, Senapati district; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest; Nagaland	[17,18,22,24,26,31,37,43,61,62,66–69]
<i>Lentinula lateritia</i> (Berk.) Pegler	Manipur: Ukhrul District; Mizoram: Champhai	[24,48]
<i>Marasmiellus candidus</i> (Fr.) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary; Nagaland; Tripura: Sipahijala WS, Melagarh	[12,17,25]
<i>Marasmiellus dendroegrus</i> Singer	Tripura: Tlangsang	[25]
<i>Marasmiellus enodis</i> Singer	Tripura: Tlangsang	[25]
<i>Marasmiellus ramealis</i> (Bull.) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary; Nagaland	[12,17]
<i>Marasmiellus tenerimus</i> (Berk. & M.A. Curtis) Singer	Tripura: Salbagan	[25]
<i>Marasmiellus troyanus</i> (Murrill) Dennis	Tripura: Bongsul	[25]
<i>Omphalotus olivascens</i> H.E. Bigelow, O.K. Mill. & Thiers	Meghalaya	[52]
<i>Rhodocollybia butyracea</i> (Bull.) Lennox	Assam	[15]
Physalacriaceae		
<i>Armillaria novae-zelandiae</i> (G. Stev.) Boesew.	Assam: Hollongapar Gibbon Wildlife Sanctuary, Dhemaji; Meghalaya: East Khasi Hills, Narpuh Reserve Forest; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,27,54,55], as <i>Armillaria mellea</i> [12,37]
<i>Cyptotrama asprata</i> (Berk.) Redhead & Ginns	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Agaricus aspratrus</i> [12]
<i>Flammulina velutipes</i> (Curtis) Singer	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Gamaibari	[16,17,25]
<i>Hymenopellis furfuracea</i> (Peck) R.H. Petersen	Mizoram: Aizawl	[30]
<i>Hymenopellis megalospora</i> (Clem.) R.H. Petersen	Assam: Jorhat	[14]
<i>Hymenopellis radicata</i> (Relhan) R.H. Petersen	Manipur: Langol herbal garden; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Xerula radicata</i> [16,17,21]
<i>Mucidula mucida</i> (Schrad.) Pat.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Oudemansiella mucida</i> [16]
<i>Oudemansiella canarii</i> (Jungh.) Höhn.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Strobilurus conigenus</i> (Pers.) Gulden	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi	As <i>Collybia conigena</i> [40]
<i>Strobilurus esculentus</i> (Wulfen) Singer	Assam: Dhemaji	As <i>Collybia esculenta</i> [27], [15]
Pleurotaceae		
<i>Hohenbuehelia petaloides</i> (Bull.) Schulzer	Tripura: Agartala	As <i>Pleurotus petaloides</i> [50]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Pleurotus citrinopileatus</i> Singer	Manipur: Senapati; Nagaland	[17,26,31,61]
<i>Pleurotus cornucopiae</i> (Paulet) Quél.	Assam: Barpeta, Mariani, Titabor, Jorhat	As <i>Pleurotus sapidus</i> [14]
<i>Pleurotus djamor</i> (Rumph. ex Fr.) Boedijn	Tripura: Jirania	[50]
<i>Pleurotus dryinus</i> (Pers.) P. Kumm.	Assam: Dhemaji, Nagaon	[27], as <i>Pleurotus corticatus</i> [32]
<i>Pleurotus ferulaginis</i> Zervakis, Venturella & Cattar.	Tripura: Boxonagar	[25]
<i>Pleurotus flabellatus</i> Sacc.	Manipur: Ukhrul District; Nagaland: Kohima	[23,24]
<i>Pleurotus floridanus</i> Singer	Assam: Goalpara	[14]
<i>Pleurotus giganteus</i> (Berk.) Karun. & K.D. Hyde	Northeast	[46]
<i>Pleurotus opuntiae</i> (Durieu & Lév.) Sacc.	Tripura: Melagarh	[25]
<i>Pleurotus ostreatus</i> (Jacq.) P. Kumm.	Assam: Kaliabar, Garbhanga Reserve Forest, Diphu, Dhemaji, Nagaon; Manipur: Senapati; Meghalaya; Mizoram: Hmuifang Forest; Nagaland: Mount Puliebadze & Lower Kitsubozou, Phek, Kohima; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Bamutia, North Tripura	[14–17,22,23,25–27, 41–43,45,50,52,61, 70,71]
<i>Pleurotus populinus</i> O. Hilber & O.K. Mill	Assam: Sibsagar	[14]
<i>Pleurotus pulmonarius</i> (Fr.) Quél.	Assam: Kokrajhar district, Hollongapar Gibbon Wildlife Sanctuary, Golaghat, Umranago subdivision of Dima Hasao district; Nagaland: Lahorijan, Puliebadze, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest; Tripura: Melagarh	[10,12,14,15,17,25,26, 29,31,49]
<i>Pleurotus tuber-regium</i> (Fr.) Singer	Assam; Tripura	[15,71,72]
Pluteaceae		
<i>Pluteus americanus</i> (P. Banerjee & Sundb.) Justo, E.F. Malysheva & Minnis	Tripura: Amtali	[25,73]
<i>Pluteus salicinus</i> (Pers.) P. Kumm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Volvariella media</i> (Schumach.) Singer	Tripura: Badarghat	[50]
<i>Volvariella murinella</i> (Quél.) M.M. Moser ex Dennis, P.D. Orton & Hora	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Volvariella taylorii</i> (Berk. & Broome) Singer	Mizoram: Aizawl	[30]
<i>Volvariella volvacea</i> (Bull.) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary, Kokrajhar district; Tripura: Barjala	[12,25,28,49]
Porothelaceae		
<i>Phloeomana alba</i> (Bres.) Redhead	Assam: Nagaon	As <i>Mycena alba</i> [32]
Psathyrellaceae		
<i>Coprinellus disseminatus</i> (Pers.) J.E. Lange	Assam: Hollongapar Gibbon Wildlife Sanctuary, Nagaon, Jeypore Reserve Forest; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[12,43], as <i>Coprinus disseminatus</i> [11,14,16,17,26,32]
<i>Coprinellus flocculosus</i> (DC.) Vilgalys, Hopple & Jacq. Johnson	Assam: Garbhanga Reserve Forest	As <i>Coprinus flocculosus</i> [45]
<i>Coprinellus micaceus</i> (Bull.) Vilgalys, Hopple & Jacq. Johnson	Assam: Dhemaji; Nagaland: Mount Puliebadze; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[15–17,41], as <i>Coprinus micaceus</i> [27]
<i>Coprinellus xanthothrix</i> (Romagn.) Vilgalys, Hopple & Jacq. Johnson	Assam: Nagaon	As <i>Coprinus domesticus</i> [32]
<i>Coprinopsis atramentaria</i> (Bull.) Redhead, Vilgalys & Moncalvo	Assam: Garbhanga Reserve Forest, Dhemaji; Nagaland: Phek; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[15,16,42], as <i>Coprinus atramentarius</i> [27,45]
<i>Panaeolus acuminatus</i> (P. Kumm.) Quél.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Panaeolus cyanescens</i> Sacc.	Northeast	[46]
<i>Panaeolus olivaceus</i> F.H. Møller	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Panaeolus papilionaceus</i> (Bull.) Quél.	Assam: Hollongapar Gibbon Wildlife Sanctuary, Garbhanga Reserve Forest	[12,45]
<i>Panaeolus subbalteatus</i> (Berk. & Broome) Sacc.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Parasola auricoma</i> (Pat.) Redhead, Vilgalys & Hopple	Tripura: Jugendranagar	[25]
<i>Psathyrella candolleana</i> (Fr.) Maire	Assam: Kokrajhar district, Garbhanga Reserve Forest, Hollongapar Gibbon Wildlife Sanctuary; Tripura: Salbagan	[12,25,45,49]
<i>Psathyrella corrugis</i> (Pers.) Konrad & Maubl.	Assam: Kamrup	[14]
<i>Psathyrella piluliformis</i> (Bull.) P.D. Orton	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17]
<i>Psathyrella trechispora</i> (Petch) Pegler	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
Pterulaceae		
<i>Pterula indica</i> Senthil.	Tripura: Unakoti	[25]
<i>Pterulicium subsimplex</i> (Henn.) Leal-Dutra, Dentinger & G.W. Griff.	Nagaland: Mount Puliebadze	As <i>Deflexula subsimplex</i> [41]
Sarcomyaceae		
<i>Sarcomyxa serotina</i> (Pers.) V. Papp	Tripura: Tlangsang	As <i>Panellus serotinus</i> [25]
Schizophyllaceae		
<i>Chondrostereum purpureum</i> (Pers.) Pouzar	Nagaland: Phek	[42]

(to be continued)

Macrofungal checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Schizophyllum commune</i> Fr.	Assam: Kaliabar, Jeypore Reserve Forest, Hollongapar Gibbon Wildlife Sanctuary, Garbhanga Reserve Forest, Dhemaji, Nagaon, Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Umrangso subdivision of Dima Hasao district; Manipur: Ukhrul District, Senapati district; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest, Champhai; Nagaland: Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest, Mount Puliebadze, Phek, Lower Kitsubozou, Kohima; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Mandwi, Vanghmun (Jampui Hill), Sepahijala	[10–12,15–18,22–27, 29,31,32,37,40–43,45, 48,50,52,61,62,67, 69–71]
<i>Schizophyllum radiatum</i> Fr.	Assam	[15]
Strophariaceae		
<i>Agrocybe pediades</i> (Fr.) Fayod	Assam: Golaghat	[14]
<i>Agrocybe splendida</i> Cléménçon	Tripura: Debdabari	[25,73]
<i>Galerina marginata</i> (Batsch) Kühner	Assam: Dhemaji	As <i>Pholiota marginata</i> [27]
<i>Galerina patagonica</i> Singer	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Galerina marginata</i> [16]
<i>Gymnopilus aeruginosus</i> (Peck) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Gymnopilus dilepis</i> (Berk. & Broome) Singer	Assam: Jorhat, Hollongapar Gibbon Wildlife Sanctuary	[12,14]
<i>Gymnopilus luteofolius</i> (Peck) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Hebeloma victoriense</i> A.A. Holland & Pegler	Mizoram: Aizawl	[30]
<i>Hypholoma capnoides</i> (Fr.) P. Kumm.	Assam: Dhemaji, Nagaon; Nagaland	[15,17,26,27,32]
<i>Hypholoma fasciculare</i> (Huds.) P. Kumm.	Meghalaya: East Khasi Hills; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,52,37]
<i>Hypholoma lateritium</i> (Schaeff.) P. Kumm.	Assam: Dhemaji; Meghalaya: Narpuh Reserve Forest	As <i>Hypholoma sublateritium</i> [27], [15,54]
<i>Kuehneromyces mutabilis</i> (Schaeff.) Singer & A.H. Sm.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Leratiomyces squamosus</i> (Pers.) Bridge & Spooner	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Pholiota aurivella</i> (Batsch) P. Kumm.	Nagaland: Mount Puliebadze & Lower Kitsubozou	[17,70]
<i>Pholiota carbonaria</i> (Fr.) Singer	Nagaland	As <i>Pholiota highlandensis</i> [17]
<i>Pholiota polychroa</i> (Berk.) A.H. Sm. & H.J. Brodie	Nagaland: Rusoma community forest	[74]
<i>Pholiota squarrosa</i> (Vahl) P. Kumm.	Meghalaya: East Khasi Hills; Nagaland: Phek, Mount Puliebadze; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,37,42], as <i>Agaricus squarrosus</i> [41]
<i>Protostropharia semiglobata</i> (Batsch) Redhead, Moncalvo & Vilgalys	Assam: Kokrajhar; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Rajibnagar	[16], as <i>Stropharia semiglobata</i> [28], as <i>Stropharia stercoraria</i> [25,73]
Tricholomataceae		
<i>Bonomyces sinopicus</i> (Fr.) Vizzini	Tripura: Khasiamangal (Teliamura)	As <i>Clitocybe sinopica</i> [73]
<i>Clitocybe brunneocaperata</i> J.A. Cooper	Tripura: Boxonagar	[25]
<i>Clitocybe ditopa</i> (Fr.) Gillet	Tripura: Sipahijala WS	[25]
<i>Clitocybe fragrans</i> (With.) P. Kumm.	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi; Meghalaya: Narpuh Reserve Forest	[40,54]
<i>Clitocybe infundibuliformis</i> (Schaeff.) Quél.	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi	[40]
<i>Clitocybe phyllophila</i> (Pers.) P. Kumm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Collybia chrysoropha</i> (Berk. & Broome) Sacc.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Collybia cirrhata</i> (Schumach.) Quél.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Hemimycena cephalotricha</i> (Joss. ex Redhead) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Hemimycena lactea</i> (Pers.) Singer	Nagaland	[17]
<i>Infundibulicybe geotropica</i> (Bull.) Harmaja	Assam: Garbhanga Reserve Forest	As <i>Clitocybe geotropica</i> [45]
<i>Lepista irina</i> (Fr.) H.E. Bigelow	Meghalaya: Narpuh Reserve Forest; Nagaland: Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest	[10,54]
<i>Lepista nuda</i> (Bull.) Cooke	Assam: Garbhanga Reserve Forest; Nagaland	[13,15,17]
<i>Leucopaxillus albissimus</i> (Peck) Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Melanoleuca grammopodia</i> (Bull.) Murrill	Nagaland	[17,26,31]
<i>Melanoleuca strictipes</i> (P. Karst.) Jul. Schäff.	Assam: Hollongapar Gibbon Wildlife Sanctuary, Dhemaji district, Kaliabar, Nagaon	[27], as <i>Tricholoma strictipes</i> [12,19,22,32]
<i>Paralepista flaccida</i> (Sowerby) Vizzini	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Clitocybe flaccida</i> [12]
<i>Resupinatus applicatus</i> (Batsch) Gray	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Hollongapar Gibbon Wildlife Sanctuary	[12,15], as <i>Rhizopogon luteolus</i> [40]
<i>Tricholoma colossus</i> (Fr.) Quél.	Assam: Dhemaji district	[19,27]
<i>Tricholoma columbetta</i> (Fr.) P. Kumm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Tricholoma imbricatum</i> (Fr.) P. Kumm.	Assam: Nagaon; Nagaland	[17,26,31,32,75]
<i>Tricholoma pardinum</i> (Pers.) Quél.	Assam	[15]
<i>Tricholoma saponaceum</i> (Fr.) P. Kumm.	Meghalaya	[58]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Tricholoma sulphureum</i> (Bull.) P. Kumm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Tricholoma terreum</i> (Schaeff.) P. Kumm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12,18]
<i>Tricholoma vaccinum</i> (Schaeff.) P. Kumm.	Assam	[15,75]
<i>Tricholoma virgatum</i> (Fr.) P. Kumm.	Nagaland: Kohima	[23]
<i>Tricholoma viridiolivaceum</i> G. Stev.	Meghalaya	[58,59]
Tubariaceae		
<i>Tubaria furfuracea</i> (Pers.) Gillet	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
Incertaesedis		
<i>Gloioxanthomyces nitidus</i> (Berk. & M.A. Curtis) Lodge, Vizzini, Ercole & Boertm.	Nagaland	[17,26]
<i>Gloioxanthomyces vitellinus</i> (Fr.) Lodge, Vizzini, Ercole & Boertm.	Nagaland	[26], as <i>Hygrocybe vitellina</i> [17]
AURICULARIALES		
Auriculariaceae		
<i>Auricularia auricula-judae</i> (Bull.) Quéf.	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Dhemaji, Hatipara, Nagaon, Garbhanga Reserve Forest, Dhemaji district, Jeypore Reserve Forest, Kaliabar; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest, Champhai; Nagaland: Phek, Mount Puliebadze & Lower Kitsubozou, Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Boxanagar	[11,13,15–18,22,25,26,31,37,41–43,45,48,52,69,70,73], as <i>Auricularia auricula</i> [19,40]
<i>Auricularia cornea</i> Ehrenb.	Mizoram: Hmuifang Forest	[43]
<i>Auricularia delicata</i> (Mont. ex Fr.) Henn.	Assam: Kaliabar, Nagaon; Manipur: Senapati district, Ukhrul district; Nagaland: Phek, Kohima; Tripura: Tuichama, Batchara (Dharmanagar)	[18,22–25,42,61,67,73]
<i>Auricularia mesenterica</i> (Dicks.) Pers.	Mizoram: Tanhril Forest; Nagaland	[17,26,43]
<i>Auricularia nigricans</i> (Sw.) Birkebak, Looney & Sánchez-García	Assam: Nagaon, Umrangso subdivision of Dima Hasao district; Manipur: Ukhrul District; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Phek, Mount Puliebadze; Tripura: Satchand	[15,17,18,24,26,29,31,32,41,43,69], as <i>Auricularia polytricha</i> [25,42]
Exidiaceae		
<i>Ductifera sucina</i> (Möller) K. Wells	Nagaland	[26]
<i>Exidia recisa</i> (Ditmar) Fr.	Mizoram: Champhai	[48]
<i>Pseudohydnum gelatinosum</i> (Scop.) P. Karst.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,26]
<i>Psilocybe mexicana</i> R. Heim	Assam: Nagaon	[14]
<i>Psilocybe semilanceata</i> (Fr.) P. Kumm.	Nagaland	[26]
<i>Psilocybe subaeruginosa</i> Cleland	Assam: Nagaon	[32]
<i>Psilocybe wayanadensis</i> K.A. Thomas, Manim. & Guzmán	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
BOLETALES		
Boletaceae		
<i>Aureoboletus auriflammeus</i> (Berk. & M.A. Curtis) G. Wu & Zhu L. Yang	Mizoram: Aizawl	[30]
<i>Aureoboletus mirabilis</i> (Murrill) Halling	Mizoram: Aizawl	As <i>Boletus mirabilis</i> [30]
<i>Aureoboletus moravicus</i> (Vaček) Kľofac	Mizoram: Aizawl	[30]
<i>Boletellus pseudochrysenterooides</i> A.H. Sm. & Thiers	Manipur: Langol herbal garden	[21]
<i>Boletus bicolor</i> Raddi	Meghalaya: Narpuh Reserve Forest	[54]
<i>Boletus edulis</i> Bull.	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Nagaon, Kaliabar; Meghalaya; Mizoram: Champhai; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,18,22,26,31,40,55,66], as <i>Boletus quercicola</i> [48]
<i>Boletus reticulatus</i> Schaeff.	Mizoram: Aizawl; Nagaland: Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest; Tripura: Trishna WS	As <i>Boletus aestivalis</i> [10], as <i>Boletus carpinaceus</i> [30], [25]
<i>Boletus stramineus</i> (Murrill) Murrill	Mizoram: Aizawl	[30]
<i>Buglossoporus pulvinus</i> (Pers.) Donk	Mizoram: Aizawl	As <i>Boletus quercinus</i> [30]
<i>Caloboletus calopus</i> (Pers.) Vizzini	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Boletus calopus</i> [16]
<i>Chalciporus piperatus</i> (Bull.) Bataille	Tripura: Trishna WS	[25]
<i>Leccinum holopus</i> (Rostk.) Watling	Meghalaya: Narpuh Reserve Forest	[54]
<i>Leccinum insigne</i> A.H. Sm., Thiers & Watling	Sikkim: Kalep, Zema-IV, Samthang	[9]
<i>Leccinum scabrum</i> (Bull.) Gray	Sikkim: Zema-IV, Kalep	[9]
<i>Neoboletus erythropus</i> (Pers.) C. Hahn	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Boletus erythropus</i> [16]
<i>Neoboletus luridiformis</i> (Rostk.) Gelardi, Simonini & Vizzini	Meghalaya: Narpuh Reserve Forest	[54]
<i>Strobilomyces confusus</i> Singer	Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Sipahijala WS	[16,25]
<i>Strobilomyces strobilaceus</i> (Scop.) Berk.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Sabual	As <i>Strobilomyces floccopus</i> [16], as <i>Boletus strobilaceus</i> [17], [25,26,31]

(to be continued)

Macromycetozoa checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Strobilomyces verruculosus</i> Hirot. Sato	Mizoram: Aizawl	[30]
<i>Suillillus permagnificus</i> (Pöder) Blanco-Dios	Meghalaya: Narpuh Reserve Forest	[54]
<i>Tylophilus felleus</i> (Bull.) P. Karst.	Manipur: Langol herbal garden	[21]
<i>Xerocomellus chrysenteron</i> (Bull.) Šutara	Nagaland	[17,26,27]
<i>Xerocomus subtomentosus</i> (L.) Quél.	Meghalaya: Narpuh Reserve Forest; Mizoram: Aizawl	[54], as <i>Boletus subtomentosus</i> [30]
Diplocystaceae		
<i>Astraeus hygrometricus</i> (Pers.) Morgan	Tripura: Sipahijala WS	[25]
<i>Aureoboletus auriporus</i> (Peck) Pouzar	Nagaland	[17,26]
Gomphidiaceae		
<i>Chroogomphus himalayanus</i> K. Das, Hembrom, A. Parihar & Vizzini	Sikkim	[76]
Hygrophoropsidaceae		
<i>Hygrophoropsis rufa</i> (D.A. Reid) Knudsen	Meghalaya	[55]
Lycoperdaceae		
<i>Lycoperdon aurantium</i> L.	Assam: Dhemaji	As <i>Scleroderma aurantium</i> [27]
Paxillaceae		
<i>Paxillus involutus</i> (Batsch) Fr.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[12,16]
Sclerodermataceae		
<i>Mitremyces junghuhnii</i> Schldt. & Müll. Berol.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Pisolithus albus</i> (Cooke & Massée) Priest	Mizoram: Aizawl	[30]
<i>Scleroderma areolatum</i> Ehrenb.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17]
<i>Scleroderma cepa</i> Pers.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,34]
<i>Scleroderma citrinum</i> Pers.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Meghalaya: Narpuh Reserve Forest; Mizoram: Aizawl; Nagaland	[15,17,26,30,34,54,55]
<i>Scleroderma verrucosum</i> (Bull.) Pers.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Aizawl; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,30,34]
Suillaceae		
<i>Suillus americanus</i> (Peck) Snell	Meghalaya	As <i>Suillus sibiricus</i> [55]
<i>Suillus bovinus</i> (L.) Roussel	Meghalaya: Narpuh Reserve Forest, Shyrwat Reserve Forest; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,54,55]
<i>Suillus cavipes</i> (Klotzsch) A.H. Sm. & Thiers	Meghalaya: Narpuh Reserve Forest	[54]
<i>Suillus decipiens</i> (Peck) Kuntze	Meghalaya: Narpuh Reserve Forest	[54]
<i>Suillus granulatus</i> (L.) Roussel	Meghalaya: Narpuh Reserve Forest	[54]
<i>Suillus luteus</i> (L.) Roussel	Assam; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26,31], as <i>Boletus luteus</i> [18]
<i>Suillus spraguei</i> (Berk. & M.A. Curtis) Kuntze	Nagaland	[26,31], as <i>Suillus pictus</i> [17]
Tapinellaceae		
<i>Tapinella panuoides</i> (Fr.) E.-J. Gilbert	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Paxillus panuoides</i> [12]
CANTHARELLALES		
Cantharellaceae		
<i>Craterellus cornucopioides</i> (L.) Pers.	Mizoram: Aizawl; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Agartala	[16,30,50]
<i>Craterellus tubaeformis</i> (Fr.) Quél.	Assam	As <i>Cantherallus tubiformis</i> [18]
Hydnaceae		
<i>Cantharellus cibarius</i> Fr.	Assam: Dhemaji district, Kokrajhar district, Kaliabar, Garbhanga Reserve Forest, Nagaon, Hollongapar Gibbon Wildlife Sanctuary, Umrangso subdivision of Dima Hasao district; Meghalaya: Khasi Hills, Mawlai, Upper Shillong, Lapalang; Nagaland: Lahorijan, Puliebzie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest; Manipur: Senapati; Mizoram: Aizawl; Tripura: Sipahijala WS; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[9,10,12,13,15–20,22,25–27,29–32,45,49,59–61]
<i>Cantharellus cinereus</i> Pers.	Tripura: Trishna WS	[25]
<i>Cantharellus flavus</i> Foltz & T.J. Volk	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Cantharellus lateritius</i> (Berk.) Singer	Assam: Garbhanga Reserve Forest, Jeypore Reserve Forest	[11,15,45]
<i>Cantharellus odoratus</i> (Schwein.) Fr.	Meghalaya	[58]
<i>Cantharellus subalbidus</i> A.H. Sm. & Morse	Assam	[15]
<i>Clavulina cinerea</i> (Bull.) J. Schröt.	Assam: Dhemaji, Nagaon, Balipara, Amsoi, Khetri, Nonoi, Balikuchi; Meghalaya	[27,32,49,66]
<i>Clavulina coralloides</i> (L.) J. Schröt.	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi; Meghalaya; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17], as <i>Clavulina cristata</i> [15,40,59]
<i>Hydnum repandum</i> L.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
DACRYMYCETALES		
Dacrymycetaceae		
<i>Calocera cornea</i> (Batsch) Fr.	Assam: Garbhanga Reserve Forest	[45]
<i>Calocera viscosa</i> (Pers.) Fr.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26]
<i>Dacrymyces chrysospermus</i> Berk. & M.A. Curtis	Nagaland: Mount Puliebadze & Lower Kitsubozou	[17,70], as <i>Dacrymyces palmatus</i> [41]
<i>Dacrymyces stillatus</i> Nees	Nagaland	[17,26]
<i>Dacryopinax elegans</i> (Berk. & M.A. Curtis) G.W. Martin	Assam	[15]
<i>Dacryopinax spathularia</i> (Schwein.) G.W. Martin	Assam: Nagaon; Nagaland: Phek; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Khashiamangal	[15,16,25,26,31,32,42]
<i>Heterotextus miltinus</i> (Berk.) McNabb	Tripura: Uptakhali	[25]
ELAPHOMYCETALES		
Elaphomycetaceae		
<i>Elaphomyces anthracinus</i> Vittad.	Mizoram: Champhai	[48]
<i>Elaphomyces granulatus</i> Fr.	Northeast	As <i>Lycoperdon scabrum</i> [46]
EUROTIALES		
Trichocomaceae		
<i>Trichocoma paradoxa</i> Jungh.	Meghalaya: East Khasi Hills; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,37]
GEASTRALES		
Geastraceae		
<i>Geastrum coronatum</i> Pers.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[34]
<i>Geastrum fimbriatum</i> Fr.	Assam: Garbhanga Reserve Forest	[45]
<i>Geastrum morgani</i> Lloyd	Mizoram: Aizawl	[30]
<i>Geastrum saccatum</i> Fr.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Tripura: Trishna WS	As <i>Geastrum lloydianum</i> [34], [25]
<i>Geastrum schweinitzii</i> (Berk. & M.A. Curtis) Zeller	Assam: Hollongapar Gibbon Wildlife Sanctuary	[34]
<i>Geastrum triplex</i> Jungh.	Assam: Dhemaji; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Salbagan	[15,16,25,27]
GEOGLOSSALES		
Geoglossaceae		
<i>Trichoglossum hirsutum</i> (Pers.) Boud.	Mizoram: Aizawl	[30]
<i>Trichoglossum walteri</i> (Berk.) E.J. Durand	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
GLOEOPHYLLALES		
Gloeophyllaceae		
<i>Gloeophyllum odoratum</i> (Wulfen) Imazeki	Meghalaya: East Khasi Hills	[37]
<i>Gloeophyllum sepiarium</i> (Wulfen) P. Karst.	Assam: Dhemaji, Nagaon; Nagaland: Phek	[27,32,42]
<i>Gloeophyllum striatum</i> (Fr.) Murrill	Meghalaya	[52]
<i>Gloeophyllum subferrugineum</i> (Berk.) Bondartsev & Singer	Meghalaya: East Khasi Hills	[37]
<i>Neolentinus lepideus</i> (Fr.) Redhead & Ginns	Assam: Kokrajhar district	[49]
GOMPHALES		
Gomphaceae		
<i>Clavariadelphus pistillaris</i> (L.) Donk	Assam: Nagaon	[32]
<i>Ramaria aurea</i> (Schaeff.) Quél.	Meghalaya; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Clavaria aurea</i> [66], [16]
<i>Ramaria botrytis</i> (Pers.) Bourdot	Meghalaya: Mawlai, Upper Shillong, Lapalang	[20]
<i>Ramaria cystidiophora</i> (Kauffman) Corner	Mizoram: Aizawl	[30]
<i>Ramaria flava</i> (Schaeff.) Quél.	Meghalaya: Mawlai, Upper Shillong, Lapalang	As <i>Clavaria flava</i> [20]
<i>Ramaria formosa</i> (Pers.) Quél.	Meghalaya	[55]
<i>Ramaria maculatipes</i> Marr & D.E. Stuntz	Meghalaya	[59]
<i>Ramaria sanguinea</i> (Pers.) Quél.	Manipur: Ukhrul District	[24]
<i>Ramaria stricta</i> (Pers.) Quél.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Trishna WS	[16,17,25,26]
<i>Ramaria subalpina</i> K. Das & K. Acharya	Sikkim: North district, near Samthang	[77]
<i>Turbinellus floccosus</i> (Schwein.) Earle ex Giachini & Castellano	Assam: Umrangso subdivision of Dima Hasao district; Meghalaya: Khasi Hills, Mawlai, Upper Shillong, Lapalang; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Cantharellus floccosus</i> [66], as <i>Gomphus floccosus</i> [16, 20,55,58–60,78], [29]
HELOTIALES		
Bulgariaceae		
<i>Bulgaria inquinans</i> (Pers.) Fr.	Meghalaya; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,52]

(to be continued)

Macrofungual checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
Chlorociboriaceae		
<i>Chlorociboria aeruginosa</i> (Oeder) Seaver ex C.S. Ramamurthi, Korf & L.R. Batra	Meghalaya: East Khasi Hills; Nagaland: Tuophema reserved forest, Phuschodu community forest, Puliebadze reserved forest	[37,42,52,79]
<i>Chlorociboria aeruginascens</i> (Nyl.) Kanouse ex C.S. Ramamurthi, Korf & L.R. Batra	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
Helotiaceae		
<i>Ascocoryne sarcoides</i> (Jacq.) J.W. Groves & D.E. Wilson	Meghalaya: East Khasi Hills	[37]
<i>Bisporella pallescens</i> (Pers.) S.E. Carp. & Korf	Nagaland: Tuophema reserved forest	[79]
Leotiaceae		
<i>Leotia lubrica</i> (Scop.) Pers.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26]
Pezizellaceae		
<i>Calycina citrina</i> (Hedw.) Gray	Meghalaya: East Khasi Hills; Nagaland: Tuophema reserved forest	[16,17,25,31], as <i>Bisporella citrina</i> [26,37,79]
HYMENOGYSALES		
Hymenochaetaceae		
<i>Coltricia cinnamomea</i> (Jacq.) Murrill	Meghalaya; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Sabual	[16,25,55]
<i>Coltricia montagnei</i> (Fr.) Murrill	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Coltricia perennis</i> (L.) Murrill	Assam: Garbhanga Reserve Forest	[45]
<i>Coltriciella dependens</i> (Berk. & M.A. Curtis) Murrill	Meghalaya: North Eastern Hill University Campus, Shillong	[80]
<i>Fuscoporia wahlbergii</i> (Fr.) T. Wagner & M. Fisch.	Meghalaya: East Khasi Hills; Nagaland: Mount Puliebadze & Lower Kitsubozou	[41,52,70], as <i>Phellinus wahlbergii</i> [37]
<i>Hydnoporia tabacina</i> (Sowerby) Spirin, Miettinen & K.H. Larss.	Meghalaya: East Khasi Hills; Nagaland: Phek, Mount Puliebadze & Lower Kitsubozou	As <i>Hymenochaete tabacina</i> [37,42,70], [41]
<i>Hymenochaete cyclolamellata</i> T. Wagner & M. Fisch.	Meghalaya: Mawphlang Sacred Grove; Nagaland: Mount Puliebadze & Lower Kitsubozou	As <i>Cyclomyces fuscus</i> [81], [41,70]
<i>Hymenochaete rubiginosa</i> (Dicks.) Lév.	Nagaland	[17,26]
<i>Hymenochaete xerantica</i> (Berk.) S.H. He & Y.C. Dai	Meghalaya: East Khasi Hills	As <i>Phellinus xeranticus</i> [37]
<i>Inocutis rheades</i> (Pers.) Fiasson & Niemelä	Meghalaya	[52]
<i>Inonotus tabacinus</i> (Mont.) G. Cunn.	Meghalaya: East Khasi Hills	[52], as <i>Cyclomyces tabacinus</i> [37]
<i>Onnia tomentosa</i> (Fr.) P. Karst.	Assam: Garbhanga Reserve Forest; Meghalaya: East Khasi Hills	As <i>Coltricia tomentosa</i> [37], as <i>Inonotus tomentosus</i> [45]
<i>Phellinus adamantinus</i> (Berk.) Ryvardeen	Meghalaya	[52]
<i>Phellinus allardii</i> (Bres.) S. Ahmad	Meghalaya: East Khasi Hills	[37]
<i>Phellinus caryophylli</i> (Racib.) G. Cunn.	Assam	[75]
<i>Phellinus gilvus</i> (Schwein.) Pat.	Assam: Dhemaji district, Jeypore Reserve Forest, Nagaon; Meghalaya: East Khasi Hills; Nagaland: Mount Puliebadze, Phek	[11,15,19,32,37,41,42,52]
<i>Phellinus igniarius</i> (L.) Quél.	Tripura: Siphajjala WS	[25]
<i>Phellinus rimosus</i> (Berk.) Pilát	Assam	[15]
<i>Phellinus robiniae</i> (Murrill) A. Ames	Assam: Dhemaji, Nagaon	[27,32]
<i>Porodaedalea pini</i> (Brot.) Murrill	Nagaland: Mount Puliebadze & Lower Kitsubozou; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16], as <i>Phellinus pini</i> [70]
<i>Pseudoinonotus dryadeus</i> (Pers.) T. Wagner & M. Fisch.	Meghalaya; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16], as <i>Inonotus dryadeus</i> [52]
Oxyporaceae		
<i>Oxyporus populinus</i> (Schumach.) Donk	Assam	[15]
HYPOCREALES		
Cordycipitaceae		
<i>Cordyceps militaris</i> (L.) Fr.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26]
Hypocreaceae		
<i>Hypomyces chrysospermus</i> Tul.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
Ophiocordycipitaceae		
<i>Ophiocordyceps mizoramensis</i> Zohmangaiha, Zothanzama, J. & Vabeikhekhei	Mizoram: Zawlnuam Village	[82]
PEZIZALES		
Discinaceae		
<i>Gyromitra infula</i> (Schaeff.) Quél.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
Helvellaceae		
<i>Helvella crispa</i> (Scop.) Fr	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17]
<i>Helvella elastica</i> Bull.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Helvella ephippium</i> Lév.	Mizoram: Aizawl	[30]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Helvella lacunosa</i> Afzel.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Helvella macropus</i> (Pers.) P. Karst.	Mizoram: Aizawl; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,30]
Morchellaceae		
<i>Morchella esculenta</i> (L.) Pers.	Assam	[18]
Pezizaceae		
<i>Legaliana badia</i> (Pers.) Van Vooren	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	As <i>Peziza badia</i> [16]
Pyronemataceae		
<i>Aleuria aurantia</i> (Pers.) Fuckel	Nagaland: Tuophema reserved forest; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Salbagan	[16,17,25,26,31,79]
<i>Humaria hemisphaerica</i> (F.H. Wigg.) Fuckel	Assam: Dhemaji; Tripura: Bampur	As <i>Lachnea hemisphaerica</i> [27], [25]
<i>Neottiella rutilans</i> (Fr.) Dennis	Nagaland	As <i>Octospora rutilans</i> [17]
<i>Otidea alutacea</i> (Pers.) Masee	Nagaland	[17]
<i>Scutellinia scutellata</i> (L.) Lambotte	Meghalaya; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,52]
Sarcoscyphaceae		
<i>Cookeina insititia</i> (Berk. & M.A. Curtis) Kuntze	Nagaland: Rusoma community forest	[79]
<i>Cookeina sulcipes</i> (Berk.) Kuntze	Nagaland: Lahorijan, Puliebzie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigit forest	[10]
<i>Cookeina tricholoma</i> (Mont.) Kuntze	Nagaland; Tripura: Atharomura	[17,25,73]
PHALLALES		
Clathraceae		
<i>Clathrus delicatus</i> Berk. & Broome	Assam: Hollongapar Gibbon Wildlife Sanctuary	[34,83]
Phallaceae		
<i>Lysurus habungianus</i> G. Gogoi & Parkash	Assam: Habungia village, Jorhat district	[84]
<i>Mutinus bambusinus</i> (Zoll.) E. Fisch.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[34,83]
<i>Mutinus caninus</i> (Huds.) Fr.	Mizoram: Aizawl	[30]
<i>Phallus atrovolvatus</i> Kreisel & Calonge	Assam: Hollongapar Gibbon Wildlife Sanctuary	[34,83]
<i>Phallus cinnabarinus</i> (W.S. Lee) Kreisel	Assam: Hollongapar Gibbon Wildlife Sanctuary	[34,83]
<i>Phallus impudicus</i> L.	Nagaland	[17]
<i>Phallus indusiatus</i> Vent.	Assam: Garbhanga Reserve Forest, Dhemaji, Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Aizawl; Nagaland; Tripura: Amtali, Bangsul	[13,15,17,26,27,30,34,83], as <i>Phallus duplicatus</i> [25]
<i>Phallus merulinus</i> (Berk.) Cooke	Assam: Hollongapar Gibbon Wildlife Sanctuary	[83]
<i>Phallus multicolor</i> (Berk. & Broome) Cooke	Assam	[15]
POLYPORALES		
Dacrybolaceae		
<i>Postia tephroleuca</i> (Fr.) Jülich	Nagaland: Phek; Meghalaya: East Khasi Hills	[42], as <i>Oligoporus tephroleucus</i> [37]
Fomitopsidaceae		
<i>Antrodia albidia</i> (Fr.) Donk	Meghalaya: East Khasi Hills	[37]
<i>Daedalea quercina</i> (L.) Pers.	Assam: Nagaon, Garbhanga Reserve Forest; Nagaland: Mount Puliebadze & Lower Kitsubozou, Phek	[15,32,45,70,79]
<i>Fomitopsis betulina</i> (Bull.) B.K. Cui, M.L. Han & Y.C. Dai	Assam: Dhemaji	As <i>Polyporus betulinus</i> [27]
<i>Fomitopsis officinalis</i> (Vill.) Bondartsev & Singer	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Fomitopsis pinicola</i> (Sw.) P. Karst.	Assam: Nagaon; Meghalaya: East Khasi Hills; Nagaland: Phek	[15,32,37,42,52]
<i>Laetiporus sulphureus</i> (Bull.) Murrill	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Kamrup; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[14,15,16,17,18,26,31,37,40,43,52]
<i>Pilatoporus hemitephrus</i> (Berk.) Zmitr.	Assam: Nagaon	As <i>Fomes hemitephrus</i> [32]
<i>Pilatoporus ostreiformis</i> (Berk.) Zmitr.	Northeast	[46]
<i>Ranadivia modesta</i> (Kunze ex Fr.) Zmitr.	Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest	As <i>Trametes modesta</i> [37,43]
<i>Rhodofomes carneus</i> (Blume & T. Nees) B.K. Cui, M.L. Han & Y.C. Dai	Meghalaya: East Khasi Hills; Nagaland: Mount Puliebadze & Lower Kitsubozou	As <i>Fomitopsis carneus</i> [37], [70]
<i>Rhodofomitopsis feei</i> (Fr.) B.K. Cui, M.L. Han & Y.C. Dai	Nagaland: Mount Puliebadze & Lower Kitsubozou	As <i>Fomitopsis feei</i> [70]
Ganodermataceae		
<i>Cristataspora coffeata</i> (Berk.) Robledo, Costa-Rezende & de Madriagnac Bonzi	Meghalaya: Mawphlang Sacred Grove	As <i>Humphreya coffeata</i> [81]
<i>Sanguinoderma rude</i> (Berk.) Y.F. Sun, D.H. Costa & B.K. Cui	Mizoram: Tanhril Forest	[43]
<i>Sanguinoderma rugosum</i> (Blume & T. Nees) Y.F. Sun, D.H. Costa & B.K. Cui	Meghalaya: East Khasi Hills; Mizoram: Tanhril Forest; Nagaland: Mount Puliebadze & Lower Kitsubozou	As <i>Amauroderma rugosum</i> [37], [43,70]

(to be continued)

Macrofungal checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
Grifolaceae		
<i>Grifola frondosa</i> (Dicks.) Gray	Meghalaya: East Khasi Hills; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,37]
Incrustoporiaceae		
<i>Skeletocutis amorpha</i> (Fr.) Kotl. & Pouzar	Meghalaya	[52]
<i>Tyromyces lacteus</i> (Fr.) Murrill	Meghalaya: East Khasi Hills; Tripura: Atharamura	[25,37]
Irpicaceae		
<i>Irpex consors</i> Berk.	Meghalaya: East Khasi Hills	[52], as <i>Cerrena consors</i> [37]
<i>Irpex lacteus</i> (Fr.) Fr.	Assam; Nagaland: Mount Puliebadze, Phek	[15,41,42]
<i>Irpex vellereus</i> Berk. & Broome	Meghalaya: East Khasi Hills	[37]
Ischnodermataceae		
<i>Ischnoderma resinosum</i> (Schrad.) P. Karst.	Tripura: Sipahijala WS; Meghalaya	[25,52]
Meruliaceae		
<i>Abortiporus biennis</i> (Bull.) Singer	Meghalaya: East Khasi Hills	[37]
<i>Bjerkandera adusta</i> (Willd.) P. Karst.	Assam: Garbhanga Reserve Forest; Meghalaya: East Khasi Hills; Nagaland: Phek, Mount Puliebadze & Lower Kitsubozou	[37,41,42,45,52,70]
<i>Flavodon flavus</i> (Klotzsch) Ryvar den	Assam: Nagaon; Nagaland: Mount Puliebadze & Lower Kitsubozou	[32,70]
<i>Meripilus giganteus</i> (Pers.) P. Karst.	Assam: Goalpara; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[14,15]
<i>Phlebia tremellosa</i> (Schrad.) Nakasone & Burds.	Meghalaya	[52]
<i>Physisporinus vitreus</i> (Pers.) P. Karst.	Assam: Golaghat	[14]
<i>Rigidoporus microporus</i> (Sw.) Overeem	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Nagaon; Meghalaya	[52], as <i>Fomes lignosus</i> [32,75]
<i>Rigidoporus ulmarius</i> (Sowerby) Imazeki	Nagaland: Mount Puliebadze & Lower Kitsubozou	[70]
Panaceae		
<i>Panus ciliatus</i> (Lév.) T.W. May & A.E. Wood	Nagaland: Rusoma community forest	As <i>Lentinus ciliates</i> [85]
<i>Panus neostrigosus</i> Drechsler-Santos & Wartchow	Assam: Dergaon, Sibsagar; Northeast	As <i>Lentinus strigosus</i> [14], as <i>Panus lecomtei</i> [14,46]
Phanerochaetaceae		
<i>Antrodiella serpula</i> (P. Karst.) Spirin & Niemelä	Meghalaya: East Khasi Hills	[37]
<i>Phlebiopsis crassa</i> (Lév.) Floudas & Hibbett	Meghalaya: East Khasi Hills	As <i>Porostereum crassum</i> [37]
Podoscyphaceae		
<i>Podoscypha bolleana</i> (Mont.) Boidin	Assam: Nagaon	[32]
<i>Podoscypha multizonata</i> (Berk. & Broome) Pat	Tripura: Vanghmun	[25]
<i>Podoscypha nitidula</i> (Berk.) Pat.	Meghalaya: East Khasi Hills	[37]
<i>Podoscypha petalodes</i> (Berk.) Boidin	Assam: Nagaon, Dhemaji; Tripura: Mandwi	[15,25,27,32]
Polyporaceae		
<i>Cerioporus leptcephalus</i> (Jacq.) Zmitr.	Nagaland	[17]
<i>Cellulariella acuta</i> (Berk.) Zmitr. & Malysheva	Meghalaya: East Khasi Hills	As <i>Lenzites acuta</i> [37]
<i>Cellulariella warnieri</i> (Durieu & Mont.) Zmitr. & Malysheva	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi; Mizoram: Tanhril Forest	As <i>Lenzites warnieri</i> [43,75]
<i>Cerioporus mollis</i> (Sommerf.) Zmitr. & Kovalenko	Meghalaya: East Khasi Hills	As <i>Daetronia mollis</i> [37]
<i>Cerioporus squamosus</i> (Huds.) Quél.	Assam: Kaliabar, Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Titabar, Dhemaji	As <i>Polyporus squamosus</i> [22,27,40], [14,15]
<i>Cerioporus varius</i> (Pers.) Zmitr. & Kovalenko	Assam: Dhemaji	As <i>Polyporus varius</i> [27]
<i>Cerrena hydnooides</i> (Sw.) Zmitr.	Assam: Dhemaji	As <i>Pogonomyces hydnooides</i> [27]
<i>Cerrena zonata</i> (Berk.) H.S. Yuan	Meghalaya: East Khasi Hills; Nagaland: Mount Puliebadze, Phek	As <i>Antrodiella zonata</i> [37], [41]
<i>Corioloopsis badia</i> (Berk.) Murrill	Nagaland: Tuophema reserve forest	As <i>Hexagonia badia</i> [85]
<i>Corioloopsis gallica</i> (Fr.) Ryvar den	Nagaland: Mount Puliebadze, Phek, Phuschodu community forest	[41,42,85]
<i>Corioloopsis telfairii</i> (Klotzsch) Ryvar den	Meghalaya; Nagaland: Kikruma community forest, Phuschodu community forest, Mount Puliebadze, Phek	[41,42,52,70]
<i>Daedaleopsis confragosa</i> (Bolton) J. Schröt.	Assam: Dhemaji, Nagaon; Meghalaya; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Sipahijala WS	[16,25,27,32], as <i>Daedalea confragosa</i> [52]
<i>Earliella scabrosa</i> (Pers.) Gilb. & Ryvar den	Assam: Jeypore Reserve Forest; Meghalaya; Nagaland: Phek, Rangapahar reserve forest, Rusoma community forest	[11,15,42,52,85]
<i>Favolus tenuiculus</i> P. Beauv.	Meghalaya; Tripura: Vanghmun; Mizoram: Hmuifang Forest; Nagaland: Tuophema reserve forest	[52,85], as <i>Polyporus tenuiculus</i> [25,43]
<i>Fomes fomentarius</i> (L.) Fr.	Assam: Dhemaji, Nagaon; Meghalaya; Nagaland: Mount Puliebadze & Lower Kitsubozou; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,27,32,52,70]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Ganoderma adspersum</i> (Schulzer) Donk	Assam: Nagaon	[32]
<i>Ganoderma applanatum</i> (Pers.) Pat.	Assam: Jeypore Reserve Forest, Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Dhemaji, Nagaon, Jorhat, Nameri National Park; Meghalaya: East Khasi Hills; Mizoram: Tanhril Forest; Nagaland: Mount Puliebadze & Lower Kitsubozou; Tripura: Kakraban	[11,14,15,17,25–27,37,40,41,43,52,70,86], as <i>Fomes applanatus</i> [32]
<i>Ganoderma australe</i> (Fr.) Pat.	Meghalaya	[52]
<i>Ganoderma carnosum</i> Pat.	Assam: Garbhanga Reserve Forest	[45]
<i>Ganoderma lucidum</i> (Curtis) P. Karst.	Assam: Dhemaji district, Kaliabar, Jeypore Reserve Forest, Nameri National Park, Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Nagaon, Goalpara, Garbhanga Reserve Forest; Meghalaya; Nagaland: Phek; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[11,13–19,22,26,32,40,42,52,86]
<i>Ganoderma mizoramense</i> Zothanz., Blanchette, Held & C.W. Barnes	Mizoram: Mizoram University Campus, Tanhril Forest	[43,87,88]
<i>Ganoderma multipileum</i> Ding Hou	Mizoram: Hmuifang, Reiek	[88]
<i>Ganoderma multiplicatum</i> (Mont.) Pat.	Assam: Nameri National Park	[86]
<i>Ganoderma orbiforme</i> (Fr.) Ryvarden	Mizoram: Dampa	As <i>Ganoderma mastoporum</i> [88]
<i>Ganoderma resinaceum</i> Boud.	Assam: Nagaon, Nameri National Park; Tripura: Sabroom	[15,32,86], as <i>Ganoderma sessile</i> [25]
<i>Ganoderma sichuanense</i> J.D. Zhao & X.Q. Zhang	Mizoram: Hmuifang Forest	[43], as <i>Ganoderma lingzhi</i> [88]
<i>Ganoderma subresinosum</i> (Murrill) C.J. Humphrey	Mizoram: Mizoram University Campus	[88]
<i>Ganoderma testaceum</i> (Cooke) Pat.	Assam: Nagaon	[32]
<i>Ganoderma tropicum</i> (Jungh.) Bres.	Northeast	[46]
<i>Ganoderma tsugae</i> Murrill	Assam: Nagaon, Nameri National Park; Tripura: Lalchara	[15,25,32,86]
<i>Ganoderma williamsianum</i> Murrill	Mizoram: Dampa	[88]
<i>Hexagonia glabra</i> Lévl.	Meghalaya: East Khasi Hills	[37]
<i>Leiotrametes lactinea</i> (Berk.) Welti & Courtec.	Nagaland: Rusoma community forest, Puliebadze reserve forest, Mount Puliebadze, Lower Kitsubozou	As <i>Trametes lactinea</i> [70], [41,85]
<i>Lentinus arcularius</i> (Batsch) Zmitr.	Assam: Golaghat; Mizoram: Hmuifang Forest; Nagaland: Rangapahar reserve forest, Rusoma community forest	As <i>Polyporus arcularius</i> [43,85], [14]
<i>Lentinus badius</i> (Berk.) Berk.	Mizoram: Hmuifang Forest, Tanhril Forest	[43]
<i>Lentinus brumalis</i> (Pers.) Zmitr.	Assam: Nagaon; Meghalaya: Mawlasnai and Umroi	As <i>Polyporus brumalis</i> [52], as <i>Boletus brumalis</i> [32]
<i>Lentinus cladopus</i> Lévl.	Assam; Tripura: Salbagan; Nagaland: Kohima	[18,23,25]
<i>Lentinus connatus</i> Berk.	Manipur: Ukhrul District; Nagaland: Kohima	[23,24]
<i>Lentinus crinitus</i> (L.) Fr.	Assam: Tezpur; Tripura: Melagarh	[14,25]
<i>Lentinus fasciatus</i> Berk.	Nagaland: Mount Puliebadze, Puliebadze reserve forest; Tripura: Salbagan	[41,85], as <i>Panus fasciatus</i> [25]
<i>Lentinus polychrous</i> Lévl.	Assam: Garbhanga Reserve Forest, Hollongapar Gibbon Wildlife Sanctuary, Kokrajhar	[12,28,45]
<i>Lentinus prolifer</i> (Pat. & Har.) D.A. Reid	Tripura: Lalchara	[25]
<i>Lentinus sajor-caju</i> (Fr.) Fr.	Assam: Kokrajhar district; Hollongapar Gibbon Wildlife Sanctuary, Karbi Anglong; Mizoram: Hmuifang Forest Nagaland; Tripura: Paratia, Sepahijala	[12,14,17,18,25,26,43,49,50,62,69,89]
<i>Lentinus squarrosulus</i> Mont.	Assam: Nagaon, Garbhanga Reserve Forest, Hollongapar Gibbon Wildlife Sanctuary; Manipur: Ukhrul District; Nagaland: Rusoma community forest; Tripura: Bangsul, AD. Nagar	[12,17,24–26,31,45,50,62,69,85,89], as <i>Pleurotus squarrosulus</i> [32]
<i>Lentinus tigrinus</i> (Bull.) Fr.	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Champhai; Nagaland	[12,17,40,48,62,69,89]
<i>Lentinus velutinus</i> Fr.	Assam: Jeypore Reserve Forest; Northeast; Nagaland: Rusoma community forest, Lahorijan, Puliebbie, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigat forest; Tripura: Trishna WS	As <i>Panus fulvus</i> [10,11,15], [25,46,85]
<i>Lenzites betulinus</i> (L.) Fr.	Assam: Dhemaji district, Nagaon; Meghalaya; Nagaland: Phek, Tuophema reserve forest; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[15,16,32], as <i>Lenzites betulina</i> [19,52,42,85]
<i>Lopharia cinerascens</i> (Schwein.) G. Cunn.	Nagaland: Phek, Mount Puliebadze, Phuschodu community forest	[41,42,85]
<i>Microporus affinis</i> (Blume & T. Nees) Kuntze	Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Lower Kitsubozou, Mount Puliebadze, Tuophema reserve forest, <i>Rhododendron</i> reserve forest	As <i>Microporus flabelliformis</i> [52], [37,41,43,70,85]
<i>Microporus xanthopus</i> (Fr.) Kuntze	Assam: Garbhanga Reserve Forest, Dhemaji, Nagaon, Jeypore Reserve Forest; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Mount Puliebadze, Lower Kitsubozou, Rangapahar reserve forest, <i>Rhododendron</i> reserve forest; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Sipahijala WS	[11,15–17,25–27,32,37,41,43,45,46,52,70,85]
<i>Neofavolus alveolaris</i> (DC.) Sotome & T. Hatt.	Assam: Garbhanga Reserve Forest, Nagaon, Kaliabar; Mizoram: Hmuifang Forest; Tripura: Tlangang	[15,32,45], as <i>Polyporus alveolaris</i> [22,25,43]

(to be continued)

Macrofungal checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Nigrofomes melanoporus</i> (Mont.) Murrill	Nagaland: Kikruma community forest, Phek	[42,85]
<i>Nigroporus durus</i> (Jungh.) Murrill	Meghalaya: East Khasi Hills	[37]
<i>Nigroporus vinosus</i> (Berk.) Murrill	Meghalaya: East Khasi Hills; Nagaland: Rusoma community forest, Kikruma community forest, Phek	[37,42,85]
<i>Perenniporia subacida</i> (Peck) Donk	Meghalaya: East Khasi Hills	[37]
<i>Picipes badius</i> (Pers.) Zmitr. & Kovalenko	Assam: Jeypore Reserve Forest; Mizoram: Hmuifang Forest	As <i>Polyporus badius</i> [43], as <i>Boletus badius</i> [11]
<i>Polyporus dictyopus</i> Mont.	Nagaland: Tuophema reserve forest; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest	[37,43,85]
<i>Polyporus lepreurii</i> Mont.	Meghalaya: East Khasi Hills	As <i>Polyporus hemicapnodes</i> [37]
<i>Polyporus tuberaster</i> (Jacq. ex Pers.) Fr.	Meghalaya: East Khasi Hills; Nagaland: Tuophema reserve forest	[37,52,85]
<i>Porodisculus orientalis</i> J.S. Lee & H.S. Jung	Nagaland: Puliebadze reserved forest	[74]
<i>Porodisculus pendulus</i> (Fr.) Murrill	Nagaland: Mount Puliebadze, Puliebadze reserve forest	[41,85]
<i>Pseudofavolus tenuis</i> (Fr.) G. Cunn.	Meghalaya: East Khasi Hills; Nagaland: Lower Kitsubozou, Mount Puliebadze, Phek, Rangapahar reserve forest, Phuschodu community forest; Northeast; Mizoram: Hmuifang Forest, Tanhril Forest	[37,41,46,52,70], as <i>Hexagonia tenuis</i> [42,43,85]
<i>Pycnoporus cinnabarinus</i> (Jacq.) P. Karst.	Nagaland: Phek; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26,42]
<i>Pycnoporus sanguineus</i> (L.) Murrill	Assam: Jeypore Reserve Forest, Dhemaji, Nagaon, Balipara, Amsoi, Khetri, Nonoi, Balikuchi; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest; Nagaland: Mount Puliebadze, Phek, Rangapahar reserve forest, Kikruma community forest; Tripura: Vanghmun	[11,15,25,27,32,37,41–43,52,75,85]
<i>Trametes apiaria</i> (Pers.) Zmitr., Wasser & Ezhov	Meghalaya: East Khasi Hills	[37,52]
<i>Trametes coccinea</i> (Fr.) Hai J. Li & S.H. He	Assam: Mariani; Northeast	As <i>Pycnoporus coccineus</i> [14,75], [46]
<i>Trametes elegans</i> (Spreng.) Fr.	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi; Mizoram: Hmuifang Forest; Nagaland: Rusoma community forest, Phek; Tripura: Sipahijala WS	As <i>Daedalea elegans</i> [40], as <i>Lenzites elegans</i> [42,43,85], [15,25]
<i>Trametes flavida</i> (Lév.) Zmitr., Wasser & Ezhov	Nagaland: Rusoma community forest	As <i>Daedalea flavida</i> [85]
<i>Trametes gibbosa</i> (Pers.) Fr.	Assam: Nagaon; Nagaland: Tuophema reserve forest, Phek; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[15–17,26,32,42,85], as <i>Pseudotrametes gibbosa</i> [85]
<i>Trametes hirsuta</i> (Wulfen) Lloyd	Assam: Garbhanga Reserve Forest; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Mount Puliebadze, Phek, Rangapahar reserve forest, Phuschodu community forest, Lower Kitsubozou	[13,15,17,26,32,37,41–43,52,70,85]
<i>Trametes ochracea</i> (Pers.) Gilb. & Ryvarden	Assam: Nagaon; Meghalaya: East Khasi Hills	[32,37]
<i>Trametes polyzona</i> (Pers.) Justo	Nagaland: Phek, Kikruma community forest; Tripura: Bangsul	As <i>Corioliopsis polyzona</i> [85], [42], as <i>Funalia polyzona</i> [25]
<i>Trametes pubescens</i> (Schumach.) Pilát	Nagaland: <i>Rhododendron</i> reserve forest, Mount Puliebadze; Assam: Kaliabar	[22,32,41,85]
<i>Trametes quarrei</i> (Beeli) Zmitr., Wasser & Ezhov	Meghalaya	As <i>Microporus quarrei</i> [52]
<i>Trametes strumosa</i> (Fr.) Zmitr., Wasser & Ezhov	Meghalaya: East Khasi Hills	As <i>Corioliopsis strumosa</i> [37]
<i>Trametes tephroleuca</i> Berk.	Meghalaya; Nagaland: Tuophema reserve forest	[52,85]
<i>Trametes trogii</i> Berk.	Nagaland: Tuophema reserve forest, Phuschodu community forest; Mizoram: Hmuifang Forest, Tanhril Forest	As <i>Corioliopsis strogii</i> [85], [43]
<i>Trametes vernicipes</i> (Berk.) Zmitr., Wasser & Ezhov	Nagaland: Mount Puliebadze, Puliebadze reserve forest	As <i>Microporus vernicipes</i> [85], [41]
<i>Trametes versicolor</i> (L.) Lloyd	Assam: Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Dhemaji, Nagaon, Jeypore Reserve Forest; Meghalaya: East Khasi Hills; Nagaland: Phek, Mount Puliebadze, Rusoma community forest, Lower Kitsubozou; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Vanghmun	[11,15–17,25–27,32,37,41,42,52,70,75,85]
<i>Trametes villosa</i> (Sw.) Kreisel	Nagaland: Phek, Phuschodu community forest	[42,85]
<i>Trichaptum abietinum</i> (Pers. ex J.F. Gmel.) Ryvarden	Nagaland: Phek, Tuophema reserve forest, Phuschodu community forest; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Meghalaya	[16,42,52,85]
<i>Trichaptum bifforme</i> (Fr.) Ryvarden	Assam: Nagaon; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest; Nagaland: Phek, Mount Puliebadze, Lower Kitsubozou, Rusoma community forest, Phuschodu community forest	[15,32,37,42,43,70,85]
<i>Trichaptum byssogenum</i> (Jungh.) Ryvarden	Meghalaya; Nagaland: Mount Puliebadze, Puliebadze reserve forest, <i>Rhododendron</i> reserve forest	[41,52,85]
<i>Trichaptum fuscoviolaceum</i> (Ehrens.) Ryvarden	Meghalaya: East Khasi Hills	[37]
<i>Truncospora ochroleuca</i> (Berk.) Pilát	Meghalaya: East Khasi Hills	As <i>Perenniporia ochroleuca</i> [37]
Sparassidaceae		
<i>Sparassis crispa</i> (Wulfen) Fr.	Meghalaya; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,52]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
Steccherinaceae		
<i>Junghuhnia nitida</i> (Pers.) Ryvarden	Meghalaya: East Khasi Hills	[37]
<i>Steccherinum ochraceum</i> (Pers. ex J.F. Gmel.) Gray	Meghalaya: East Khasi Hills; Nagaland: Mount Puliebadze & Lower Kitsubozou	[37,70]
PROTOSTELIALES		
Ceratiomyxaceae		
<i>Ceratiomyxa fruticulosa</i> T. Macbr.	Nagaland: Phek	[42]
RUSSULALES		
Albatrellaceae		
<i>Albatrellopsis ellisii</i> (Berk. ex Cooke & Ellis) Teixeira	Meghalaya	As <i>Albatrellus ellisii</i> [59]
Bondarzewiaceae		
<i>Bondarzewia berkeleyi</i> (Fr.) Bondartsev & Singer	Meghalaya: East Khasi Hills	[37]
<i>Heterobasidion annosum</i> (Fr.) Bref.	Meghalaya: East Khasi Hills	[37]
<i>Heterobasidion insulare</i> (Murrill) Ryvarden	Meghalaya: East Khasi Hills	[37]
Hericiaceae		
<i>Hericum cirrhatum</i> (Pers.) Nikol.	Assam: Garbhanga Reserve Forest; Nagaland	[26,31], as <i>Creolophus cirrhatus</i> [17,45]
<i>Hericum erinaceus</i> (Bull.) Pers.	Nagaland: Japfu mountain	[17,90]
<i>Laxitextum bicolor</i> (Pers.) Lentz	Meghalaya: East Khasi Hills	[37]
Peniophoraceae		
<i>Peniophora versiformis</i> (Berk. & M.A. Curtis) Bourdot & Galzin	Meghalaya: East Khasi Hills	As <i>Stereum versiforme</i> [37]
Russulaceae		
<i>Lactarius abieticola</i> X.H. Wang	Arunachal Pradesh: Ani Gompa, Tawang district; Sikkim: Yumthang	[91]
<i>Lactarius ambiguus</i> X.H. Wang	Arunachal Pradesh: West Kameng, Chug	[92]
<i>Lactarius argillaceifolius</i> Hesler & A.H. Sm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Lactarius corrugis</i> Peck	Assam: Garbhanga Reserve Forest; Tripura: Trishna WS	[25,45]
<i>Lactarius deliciosus</i> (L.) Gray	Meghalaya: Upper Shillong Reserve Forest; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,55,59]
<i>Lactarius deterrimus</i> Gröger	Nagaland	[17]
<i>Lactarius friabilis</i> H.T. Le & D. Stubbe	Assam: Jorhat	[14]
<i>Lactarius helvus</i> (Fr.) Fr.	Manipur: Langol herbal garden	[21]
<i>Lactarius hirtipes</i> J.Z. Ying	Arunachal Pradesh: West Kameng, Sergaon	[92]
<i>Lactarius hygrophoroides</i> Berk. & M.A. Curtis	Assam: Jeypore Reserve Forest; Nagaland: Lahorijan, Puliebadze, Zakhama, Pherma, Mankoi, Chungtia, Nongkham, Namcha, Tigt forest; Tripura: Salbagan	[10,11,25]
<i>Lactarius indigo</i> (Schwein.) Fr.	Meghalaya: Upper Shillong Reserve Forest	[55]
<i>Lactarius kesiyae</i> Verbeken & K.D. Hyde	Arunachal Pradesh: West Kameng, Dirang, Namchu	[92]
<i>Lactarius princeps</i> Berk.	Manipur: Ukhrul District	[24]
<i>Lactarius quieticolor</i> Romagn.	Meghalaya: Khasi Hills	[60]
<i>Lactarius resimus</i> (Fr.) Fr.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Lactarius rubidus</i> (Hesler & A.H. Sm.) Methven	Meghalaya: Upper Shillong Reserve Forest	[55]
<i>Lactarius scrobiculatus</i> (Scop.) Fr.	Meghalaya	[55]
<i>Lactarius subdulcis</i> (Pers.) Gray	Nagaland	[17]
<i>Lactarius viridinigrellus</i> K. Das, I. Bera & Uniyal	Sikkim: East district, Gnathang Firing Range Forest; Arunachal Pradesh: Tawang District	[93]
<i>Lactarius yazoensis</i> Hesler & A.H. Sm.	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Lactifluus acicularis</i> (Van de Putte & Verbeken) Van de Putte	Arunachal Pradesh: Sangti valley forest, Dirang, West Kameng district	[94]
<i>Lactifluus corrugis</i> (Peck) Kuntze	Assam: Umrangso subdivision of Dima Hasao district; Mizoram: Champhai, Aizawl	[29,30,48]
<i>Lactifluus crocatus</i> (Van de Putte & Verbeken) Van de Putte	Arunachal Pradesh: Sangti valley forest, Dirang, West Kameng district	[94]
<i>Lactifluus dissitus</i> Van de Putte, K. Das & Verbeken	Sikkim: Yuksom village	[95]
<i>Lactifluus glaucescens</i> (Crossl.) Verbeken	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Trishna WS	As <i>Lactarius glaucescens</i> [16,25], [17,26]
<i>Lactifluus indovolemus</i> I. Bera & K. Das	Arunachal Pradesh: Sangti valley forest, Dirang, West Kameng district	[94]
<i>Lactifluus kanadii</i> I. Bera, A. Ghosh, Nuytinck & Verbeken	Arunachal Pradesh: Bebar Thanka, Dirang	[96]
<i>Lactifluus leptomerus</i> Van de Putte, K. Das & Verbeken	Sikkim: Yuksom village	[95]
<i>Lactifluus ochrogalactus</i> (Hashiya) X.H. Wang	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Lactifluus piperatus</i> (L.) Roussel	Assam; Mizoram: Champhai, Aizawl; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Barabari	As <i>Lactarius piperatus</i> [15,16,25,26,30,31,48], [17,89]
<i>Lactifluus versiformis</i> Van de Putte, K. Das & Verbeken	Sikkim: Lachung	[95]

(to be continued)

Macrofungi checklist of North East India

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Lactifluus volemus</i> (Fr.) Kuntze	Meghalaya: Mawlai, Upper Shillong, Lapalang; Nagaland; Manipur: Senapati; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,20,26,31,58,59,61], as <i>Lactarius volemus</i> [17]
<i>Russula adusta</i> (Pers.) Fr.	Assam: Garbhanga Reserve Forest; Mizoram: Champhai, Aizawl; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,30,48], as <i>Russula nigricans</i> [45]
<i>Russula albidula</i> Peck	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Russula amoena</i> Quél.	Assam: Jeypore Reserve Forest	[11]
<i>Russula aurora</i> Krombh.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Aizawl	As <i>Russula velutipes</i> [12], [30]
<i>Russula brevipes</i> Peck	Tripura: Vanghmun	[25]
<i>Russula burlinghamiae</i> Singer	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Russula compacta</i> Frost	Assam: Hollongapar Gibbon Wildlife Sanctuary; Mizoram: Aizawl; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[12,16,30]
<i>Russula cremoricolor</i> Earle	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Russula cyanoxantha</i> (Schaeff.) Fr.	Assam: Garbhanga Reserve Forest; Mizoram: Aizawl, Champhai; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Salbagan	[16,17,25,26,30,45,48]
<i>Russula delica</i> Fr.	Assam: Jeypore Reserve Forest	[11]
<i>Russula dubdiana</i> K. Das, Atri & Buyck	Sikkim: West district, Dubdi, near Yuksom	[97]
<i>Russula earlei</i> Peck	Mizoram: Aizawl	[30]
<i>Russula emetica</i> (Schaeff.) Pers.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Meghalaya; Tripura: Sipahijala WS	[12,15,25,55]
<i>Russula fragilis</i> Fr.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Manipur: Langol herbal garden; Nagaland	[12,17,21,26]
<i>Russula heterophylla</i> (Fr.) Fr.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26,31]
<i>Russula insignis</i> Quél.	Assam	[15]
<i>Russula integra</i> (L.) Fr.	Meghalaya: Khasi Hills	[60]
<i>Russula mutabilis</i> Murrill	Mizoram: Aizawl	[30]
<i>Russula natarajanii</i> K. Das, J.R. Sharma & Atri	Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Trishna WS; Nagaland	[16,17,25,26]
<i>Russula nobilis</i> Velen.	Assam: Jeypore Reserve Forest; Nagaland	[11,17,26]
<i>Russula ochroleuca</i> Fr.	Assam: Hollongapar Gibbon Wildlife Sanctuary; Nagaland	[12,17]
<i>Russula olivacea</i> (Schaeff.) Fr.	Meghalaya: Shyrvat Reserve Forest	[55]
<i>Russula parvovirescens</i> Buyck, D. Mitch. & Parrent	Meghalaya: Shyrvat Reserve Forest	[55]
<i>Russula pectinata</i> Fr.	Assam: Jeypore Reserve Forest	[11]
<i>Russula puellaris</i> Fr.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17]
<i>Russula purpureozonata</i> K. Das, A. Ghosh & Buyck	Sikkim: East district, Memeinchu	[98]
<i>Russula queletii</i> Fr.	Mizoram: Aizawl	[30]
<i>Russula rosea</i> Pers.	Assam: Garbhanga Reserve Forest; Mizoram: Aizawl; Nagaland	As <i>Russula lepida</i> [45], [17,30]
<i>Russula sanguinaria</i> (Schumach.) Rauschert	Assam: Garbhanga Reserve Forest	[13]
<i>Russula sanguinea</i> Fr.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Russula senecis</i> S. Imai	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,26]
<i>Russula sharmae</i> K. Das, Atri & Buyck	Sikkim: West district, Takredara	[97]
<i>Russula sikkimensis</i> K. Das, Atri & Buyck	Sikkim: West district, near Tal	[97]
<i>Russula squalida</i> Peck	Assam: Hollongapar Gibbon Wildlife Sanctuary	As <i>Russula atropurpurea</i> [12]
<i>Russula subfoetens</i> W.G. Sm.	Assam: Hollongapar Gibbon Wildlife Sanctuary	[12]
<i>Russula subfragilliformis</i> Murrill	Mizoram: Champhai	[48]
<i>Russula virescens</i> (Schaeff.) Fr.	Mizoram: Champhai; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Sipahijala WS	[16,25,48]
<i>Russula xerampelina</i> (Schaeff.) Fr.	Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,26]
Stereaceae		
<i>Acanthofungus ahmadii</i> (Boidin) Sheng H. Wu, Boidin & C.Y. Chien	Nagaland: Phek	As <i>Aleurodiscus ahmadii</i> [42]
<i>Stereum complicatum</i> (Fr.) Fr.	Meghalaya; Nagaland: Phek	[42,52]
<i>Stereum hirsutum</i> (Willd.) Pers.	Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Phek, Mount Puliebadze; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,37,41–43,52]
<i>Stereum ostrea</i> (Blume & T. Nees) Fr.	Meghalaya: East Khasi Hills; Nagaland: Phek, Mount Puliebadze; Tripura: Bangsul	[25,37,41,42,52]
<i>Stereum rugosum</i> Pers.	Mizoram: Hmuifang Forest, Tanhril Forest	[43]
<i>Xylobolus frustulatus</i> (Pers.) P. Karst.	Nagaland: Mount Puliebadze	[41]
<i>Xylobolus subpileatus</i> (Berk. & M.A. Curtis) Boidin	Meghalaya: East Khasi Hills; Nagaland: Mount Puliebadze & Lower Kitsubozou	[37,70]
Wrightoporiaceae		
<i>Wrightoporia perplexa</i> Ryvarden	Meghalaya: East Khasi Hills	As <i>Heterobasidium perplexum</i> [37]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
THELEPHORALES		
Bankeraceae		
<i>Hydnellum aurantiacum</i> (Batsch) P. Karst.	Meghalaya: East Khasi Hills	[37]
<i>Sarcodon atroviridis</i> (Morgan) Banker	Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16]
<i>Sarcodon imbricatus</i> (L.) P. Karst.	Assam: Tinsukia	[14]
<i>Sarcoscypha coccinea</i> (Gray) Boud.	Nagaland: Tuophema reserved forest	[17]
Thelephoraceae		
<i>Thelephora ganbajun</i> M. Zang	Mizoram: Aizawl	[30]
<i>Thelephora penicillata</i> (Pers.) Fr.	Meghalaya	[55]
<i>Thelephora terrestris</i> Ehrh. ex Fr.	Tripura: Sipahijala WS	[25]
TREMELLALES		
Phaeotremellaceae		
<i>Phaeotremella foliacea</i> (Pers.) Wedin, J.C. Zamora & Millanes	Assam: Nagaon; Nagaland; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[15,16,17,32]
Tremellaceae		
<i>Tremella fuciformis</i> Berk.	Assam; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland; Tripura: Paratia	[15,17,25,26,31,37,43]
<i>Tremella mesenterica</i> (Schaeff.) Pers.	Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Phek; Sikkim: Barsey <i>Rhododendron</i> Sanctuary	[16,17,26,37,42,43,52]
XYLARIALES		
Hypoxyloaceae		
<i>Annulohypoxyylon bovei</i> (Speg.) Y.M. Ju, J.D. Rogers & H.M. Hsieh	Nagaland: Tuophema reserved forest	[79]
<i>Daldinia concentrica</i> (Bolton) Ces. & De Not.	Assam: Garbhanga Reserve Forest; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Mount Puliebadze, Rangapahar zoological park, Ngwalwa community forest, Rusoma community forest, Tuophema reserved forest, Kikruma community forest, Phuschodu community forest, Phek, Lower Kitsubozou; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Trishna WS	[13,15–17,25,26,37,41–43,70,79]
<i>Hypoxyylon fragiforme</i> (Pers.) J. Kickx f.	Nagaland: Rangapahar zoological park	[79]
<i>Hypoxyylon fuscum</i> (Pers.) Fr.	Nagaland: Puliebadze reserved forest, Mount Puliebadze	[41,79]
<i>Hypoxyylon haematostroma</i> Mont.	Nagaland: Rangapahar zoological park, Ngwalwa community forest, Rusoma community forest	[79]
<i>Hypoxyylon rubiginosum</i> (Pers.) Fr.	Nagaland: Ngwalwa community forest, Rusoma community forest, Kikruma community forest	[79]
<i>Jackrogersella cohaerens</i> (Pers.) L. Wendt, Kuhnert & M. Stadler	Nagaland: Mount Puliebadze, Rusoma community forest, Puliebadze reserved forest, Puliebadze <i>Rhododendron</i> reserved forest, Phek	[41,42,79]
<i>Jackrogersella minutella</i> (Syd. & P. Syd.) L. Wendt, Kuhnert & M. Stadler	Nagaland: Puliebadze reserved forest	[79]
Xylariaceae		
<i>Kretzschmaria deusta</i> (Hoffm.) P.M.D. Martin	Nagaland: Mount Puliebadze, Rusoma community forest, Tuophema reserved forest, Kikruma community forest, Phuschodu community forest, Puliebadze reserved forest, Phek	[41,42,79]
<i>Podosordaria nigripes</i> (Klotzsch) P.M.D. Martin	Tripura: Jampui Hills, Betlingshib	As <i>Xylaria nigripes</i> [99], [25]
<i>Xylaria apiculata</i> Cooke	Nagaland: Mount Puliebadze, Rusoma community forest, Phuschodu community forest, Puliebadze reserved forest, Phek	[41,42,79]
<i>Xylaria arbuscula</i> Sacc.	Nagaland: Rusoma community forest	[79]
<i>Xylaria carpophila</i> (Pers.) Fr.	Nagaland: Rusoma community forest	[79]
<i>Xylaria filiformis</i> (Alb. & Schwein.) Fr.	Nagaland: Rusoma community forest, Tuophema reserved forest	[79]
<i>Xylaria grammica</i> (Mont.) Mont.	Mizoram: Hmuifang Forest	[43]
<i>Xylaria hypoxyylon</i> (L.) Grev.	Assam: Garbhanga Reserve Forest; Meghalaya: East Khasi Hills; Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Ngwalwa community forest, Rusoma community forest, Mount Puliebadze, Tuophema reserved forest; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Sabual, Jampui Hills	[13,15–17,25,37,41,43,52,79,99]
<i>Xylaria longipes</i> Nitschke	Mizoram: Hmuifang Forest, Tanhril Forest; Nagaland: Rangapahar zoological park, Ngwalwa community forest, Rusoma community forest, Tuophema reserved forest, Kikruma community forest, Lower Kitsubozou, Mount Puliebadze	[41,43,79,70]
<i>Xylaria multiplex</i> (Kunze) Fr.	Nagaland: Rusoma community forest; Tripura: Tlangsang, Jampui Hills	[25,79,99]
<i>Xylaria obovata</i> (Berk.) Berk.	Tripura: Betlingshib, Jampui Hills	[25,99]

(to be continued)

Table 1. (continued)

Name of the taxa	Distribution	References
<i>Xylaria polymorpha</i> (Pers.) Grev.	Assam: Garbhanga Reserve Forest, Balipara, Amsoi, Khetri, Nonoi, Balikuchi, Dhemaji, Jeypore Reserve Forest; Meghalaya: East Khasi Hills; Nagaland: Mount Puliebadze, Phek, Rangapahar zoological park, Ngwalwa community forest, Rusoma community forest, Tuophema reserved forest, Kikuma community forest, Phuschodu community forest; Sikkim: Barsey <i>Rhododendron</i> Sanctuary; Tripura: Betlingshib, Jampui Hills	[11,15–17,25,27,37,40,41,42,45,52,79,99]
<i>Xylaria schreuderiana</i> Van der Byl	Tripura: Tlangsang	[25]
<i>Xylaria tabacina</i> (J. Kickx f.) Berk.	Meghalaya: East Khasi Hills; Nagaland: Ngwalwa community forest	[37,79]

Table 2. List of macrofungi consisting of family wise genus and species number earlier reported from North-East Indian region.

Name of the family	No. of reported genera	No. of reported species	Name of the family	No. of reported genera	No. of reported species
Agaricaceae	12	63	Bulgariaceae	1	1
Amanitaceae	1	22	Chlorociboriaceae	1	2
Bolbitiaceae	2	4	Helotiaceae	2	2
Callistosporiaceae	1	1	Leotiaceae	1	1
Clavariaceae	3	7	Pezizellaceae	1	1
Cortinariaceae	1	8	Hymenochaetaceae	11	21
Crepidotaceae	1	5	Oxyporaceae	1	1
Entolomataceae	2	7	Cordycipitaceae	1	1
Fistulinaceae	1	1	Hypocreaceae	1	1
Hydnangiaceae	1	12	Ophiocordycipitaceae	1	1
Hygrophoraceae	6	16	Discinaceae	1	1
Inocybaceae	3	8	Helvellaceae	1	5
Lycoperdaceae	5	12	Morchellaceae	1	1
Lyophyllaceae	3	12	Pezizaceae	1	1
Marasmiaceae	5	23	Pyronemataceae	5	5
Mycenaceae	4	14	Sarcoscyphaceae	1	3
Omphalotaceae	6	17	Clathraceae	1	1
Physalacriaceae	7	10	Phallaceae	3	9
Pleurotaceae	2	14	Dacryobolaceae	1	1
Pluteaceae	2	6	Fomitopsidaceae	8	11
Porotheleaceae	1	1	Ganodermataceae	2	3
Psathyrellaceae	5	15	Grifolaceae	1	1
Pterulaceae	2	2	Incrustoporiaceae	2	2
Sarcomyaceae	1	1	Irpicaceae	1	3
Schizophyllaceae	2	3	Ischnodermataceae	1	1
Strophariaceae	9	18	Meruliaceae	7	8
Tricholomataceae	11	28	Panaceae	1	2
Tubariaceae	1	1	Phanerochaetaceae	2	2
Auriculariaceae	1	5	Podoscyphaceae	1	4
Exidiaceae	4	7	Polyporaceae	27	85
Boletaceae	13	23	Sparassidaceae	1	1
Diplocystaceae	2	2	Steccherinaceae	2	2
Gomphidiaceae	1	1	Ceratiomyxaceae	1	1
Hygrophoropsidaceae	1	1	Albatrellaceae	1	1
Lycoperdaceae	1	1	Bondarzewiaceae	2	3
Paxillaceae	1	1	Hericiaceae	2	3
Sclerodermataceae	3	6	Peniophoraceae	1	1
Suillaceae	1	7	Russulaceae	3	67
Tapinellaceae	1	1	Stereaceae	3	7
Cantharellaceae	2	2	Wrightoporiaceae	1	1
Hydnaceae	3	9	Bankeraceae	3	4
Dacrymycetaceae	4	7	Thelephoraceae	1	3
Elaphomycetaceae	1	2	Phaeotremellaceae	1	1
Trichocomaceae	1	1	Tremellaceae	1	2
Geastraceae	1	6	Hypoxylaceae	4	8
Geoglossaceae	1	2	Xylariaceae	3	14
Gloeophyllaceae	2	5	Incertaedis	1	2
Gomphaceae	3	11			

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Conflict of interest

The authors declare that they have no conflict of interest.

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