
Checklist of Myxomycetes from India

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India is rich in Myxomycetes (acellular slime moulds). They are predominantly restricted to high rainfall and humid climatic regions. Following a literature review, a checklist is provided of 373 species of Myxomycetes, 17 varieties and 4 forms within 50 genera, 11 families and 6 orders. Most records come from the states of Himachal Pradesh, West Bengal, Uttar Pradesh, Bihar, Maharashtra, Karnataka in South India, Jammu and Kashmir.

Key Words – acellular slime moulds – fungi – literature review

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Introduction

Myxomycetes are plant-like in their manner of reproduction but resemble animals in the characteristics of their assimilative phase. The organism exhibits two alternating phases in its life cycle, the assimilative phase and the sporulating phase. The former consists of a free-living, acellular, mobile mass of protoplasm i.e., the plasmodium. The plasmodium absorbs nutrients from the surroundings and also engulfs solid particles including bacterial and fungal spores. The sporulating phase (sporocarp) bears spores externally on, or inside, a spore case. The spore case consists of an outer, generally persistent peridium, which envelops a free thread-like netted structure, the capillitium, which aids in spore dispersal.

Myxomycetes are a cosmopolitan group of organisms that can be found in a variety of habitats including well-manicured lawns and flower beds, and damp places, especially on old wood or other plant material undergoing decomposition. Slime molds are also common on dung and a few species may

be restricted to this substratum. Another more recently recognized, specialized niche is dead branches attached to living trees.

The important taxonomic treatises available on slime moulds include Lodhi (1934), Martin & Alexopoulos (1969), Alexopoulos (1973, 1978), Farr (1976), Thind (1977) and Lakhanpal & Mukherji (1981).

Several workers also reported Myxomycetes from different parts of India, which were published under the banner of Fungi of India. [Martin GW (1932); Uppal BN, Patel MK & Kamat MN (1935); Mundkur BB (1938); Patel MK, Kamat MN & Bhide VP (1948); Ramakrishnan K, Subramanian CV (1952); Subramanian CV, Ramakrishnan K (1956); Roy TC (1959); Vasudeva RS (1962); Tandon RN, Chandra S (1963 – 64); Mathur RS (1964); Subramanian CV, Tyagi PD (1964), Tilak ST, Rao R (1968); Rangaswamy G, Sheshadri VS & Lucy Channama KA (1970); Kamat MN, Patwardhan PG, Rao VG & Sathe AV (1971); Kowalski DT (1973); Mukherji KG, Juneja RC (1974 – 75); Sarbhoy AK, Lal G & Varshney JL (1975); Sekhon SS

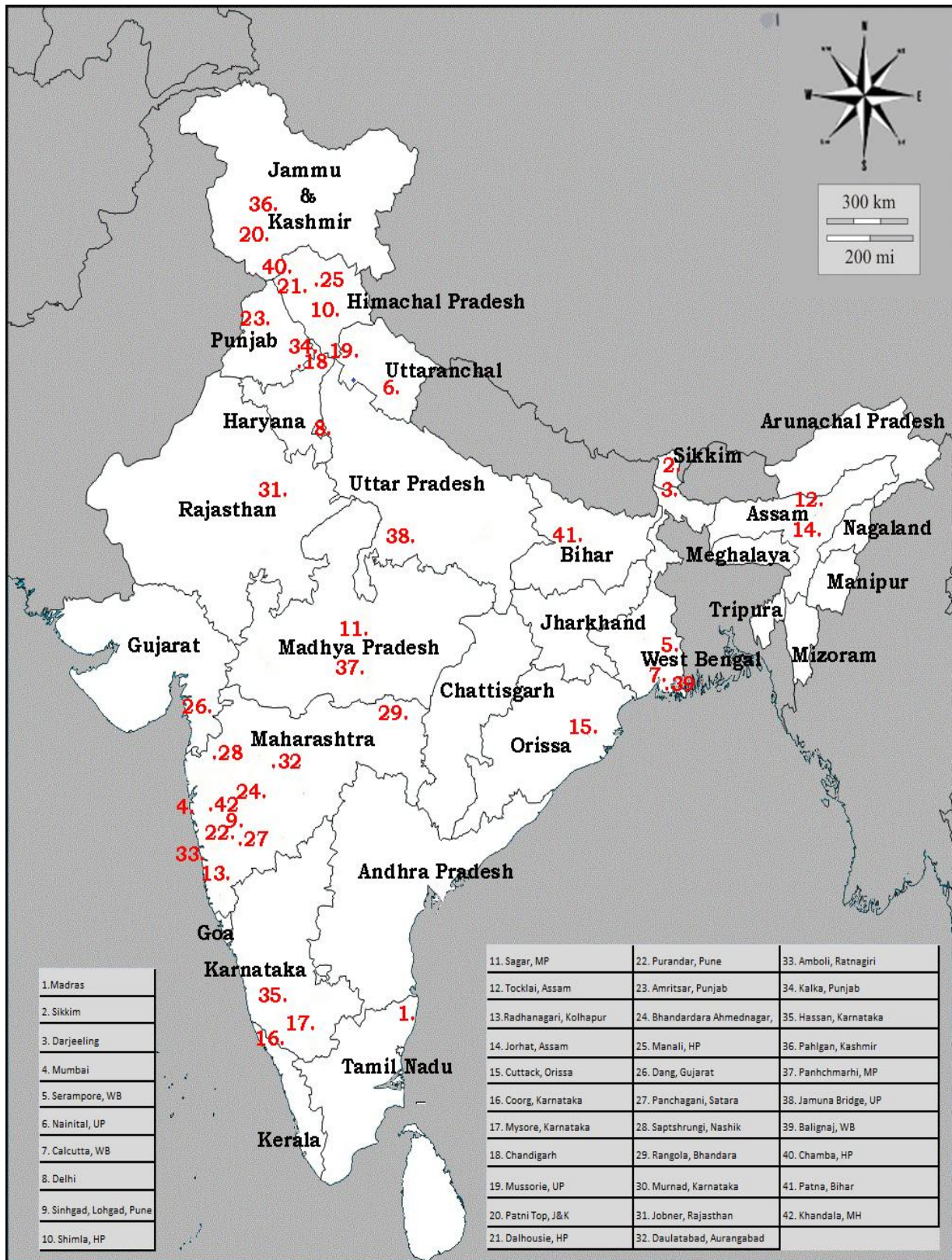


Fig. 1 – Map showing the distribution of Mxyomycetes in India

(1976 – 1979); Bilgrami KS, Jamaluddin S & Rizwi MA (1979); Mishra RL, Ranade VD (1979); Sood R, Lakhanpal TN (1980); Sarabhoy AK, Agarwal DK &

Varshney JL (1980 – 1986); Bhide VP, Sathe AV, Pande Alaka, Patwardhan PG & Rao VG (1987); Hosagoudar VB, Abraham TK & Pusphangadan P (1996); Jagtap AP, Singh NP

(2002); Jamaluddin S, Goswami MG & Ojha BM (2004); Tembhumne RR, Nanir SP (2011)].

Indian work on Myxomycetes

Many fungi were collected in India by Dr. Wight and these were examined by Klotzsch (1830–1833) and Berkeley (1839). Wight was perhaps the first person to collect a slime mould, *Physarum cinereum* (Batsch.) Pers., from Madras (Chennai), India on grass leaves in 1830 (Lakhanpal & Mukerji, 1981).

Three species namely, *Physarum conglomeratum* (Fr.) Rost. *Dictydiaethalium plumbeum* (Schum.) Rost. and *Lycogala epidendrum* (L.) Fr. were collected and reported by Sir J.D. Hooker in 1849–1850 from Sikkim and Darjelling. J.C. Hobson (1862) recorded *Hemitrichia serpula* (Scop.) Rost. from Bombay (Mumbai). E. S. Berkeley recorded 11 species of Myxomycetes between 1864 and 1882 (Lakhanpal & Mukerji, 1981).

Pioneer work on slime moulds in India was done by Mrs. A. Drake, who collected them from different parts of India (1911–1927). She made 124 collections belonging to 74 species, which were then identified by Miss G. Lister. Her collection as well as of others are preserved at the Royal Botanic Garden, Kew. Lister (1924) published the first paper on Indian Myxomycetes entitled “Mycetozoa from North India”. This publication was based on 36 collection made by Mrs. Drake from 1912–1919.

Bruhl & Gupta (1927) published the second paper on Indian Myxomycetes describing 16 species from West Bengal.

Butler & Bisby (1931) compiled a list of Indian Fungi and remarked, “The Myxomycetes have not been studied in India but many of these widely distributed organisms occur there”. They did not include any representative of this group in their compilation. However, Lister A (1894) had already mentioned (under habit only) the occurrence of 18 species in different parts of India. Lodhi (1934) published a monograph of Indian slime moulds describing and illustrating 43 species collected by Mrs. A. Drake.

The period between 1952–1976 can be considered the Golden Period for the studies of Myxomycetes in India. Around 1952 interest

was revived in this field. Dr. K.S. Thind in North India, and Dr. V. Agnihothrudu in South India, started work on Indian Myxomycetes almost simultaneously. Thind *et al.* (1955–1973) in a series of 24 research papers have described about 175 species from the North Western and Eastern Himalayas and the Punjab Plains. Their contributions include 19 new species and two new varieties.

Agnihothrudu and his collaborators (Agnihothrudu 1954–1956, 1965–1966; Agnihothrudu & Chinnappa 1968–1969, Indira 1968, 1975) have described 78 species from South India, including one new species. Agnihothrudu (1958–1965) in a series of four papers described 56 species including two new species from North-East India.

Ghosh & Dutta (1962) from Orissa, Pathak & Ghosh (1962) from Uttar Pradesh, Kar (1964) from Calcutta, Singh, & Pushpavathy (1965 – 1979), Singh, Pushpavathy & Sethi (1979) from Delhi, Patwardhan & Joshi (1975), Patil & Ranade (1975), Ranade & Mishra (1977, 1979), Chavan & Kulkarni (1974), Thite (1975) from Maharashtra, Dhillon (1978), and Dhillon *et al.* (1978, 1979) recorded more species of Myxomycetes from their respective places.

In 1977, Prof. Thind published “Myxomycetes of India” describing and illustrating 182 species recorded up to 1973. Lakhanpal T.N. began work on Myxomycetes of Kulu and Simla in 1965, later extending the work to other parts of Himachal Pradesh. From 1965 to 1978 he collected about one thousand specimens, including about 75 from Delhi (1969–1975). In his doctoral thesis, Lakhanpal T.N. described and illustrated 156 species. In this work he recorded 7 genera and 43 species for the first time from India and described 22 species new to science. He also reported 50 species (and one variety) from Delhi, and 83 species from Himachal Pradesh for the first time. He also amended the diagnosis of *Metatrichia vesparium* and *Physarum laevisporum* and resolved the controversy regarding the delimitation of the species of *Lycogala* on the basis of the ontogeny of their cortical scales. Lakhanpal & Mukherji in a series of 19 papers entitled “Taxonomic studies on Indian Myxomycetes –

Table 1 Myxomycetes known from India.

Order	Families	Genera	Species	Variety	Forms
1. Ceratiomyxiales	1. Ceratiomyxaceae	1	2	2	-
2. Physarales	2. Physaraceae	8	97	3	2
	3. Didymiaceae	5	75	4	-
	4. Liceaceae	2	29	1	-
3. Liceales	5. Reticulariaceae	4	14	1	-
	6. Cribrariaceae	3	21	3	2
	7. Echinosteliaceae	1	3	-	-
4. Echinosteliales	8. Clastodermataceae	2	3	-	-
	9. Dianemaceae	3	3	1	-
5. Trichiales	10. Trichiaceae	9	59	1	-
	11. Stemonitaceae	12	67	1	-
6. Stemonitales	Total no.	50	373	17	4

I–XVII” and “Experimental studies on Indian Myxomycetes – I and II” described and illustrated more than 62 species from Himachal Pradesh and Delhi and have recorded their observations on the life cycle and sporangial development of some important species such as *Licea scyphoides* Keller & Brookes, *Macbridela cornea* (G. Lister & Cram) Alexop. and *Clastoderma debaryanum* Blytt. They also conducted cultural studies on some species of *Didymium* i.e., *Didymium muscorum* Lakhanpal & Mukherji, *D. karstenii* Nann.-Bremk., *D. intermedium* Schroet. and *D. squamulosum* (Alb. & Schw.) Fr. Earlier, Thind & Lakhanpal (1968a–d) described 16 species and Lakhanpal (1971–1973) 56 species from Himachal Pradesh, including some already described by him with Prof. Thind (loc. cit.). Kowalski & Lakhanpal (1973) and Lakhanpal (1972) described one genus and ten species from Delhi. Lakhanpal (1972) recorded five species from Nainital in Uttar Pradesh.

Many species have been collected from natural habitats since 1976 and some more interesting forms have been obtained, in moist chambers, from the bark of living trees. The work after 1976 has seen contributions from T.N. Lakhanpal, K.G. Mukherji, S.S. Dhillon (1976–1980), S.D. Patil (1977–1979), V.D. Ranade (1977–1979), R.L. Mishra (1977–1979), M.L. Farr (1960–1979), H. Singh (1981), S.P. Nanir (1979–1985), S.P. Nanir *et al.* (1987), R.R. Tembhurne & S.P. Nanir (2011), B.G. Rokade & S.P. Nanir (1993), N.E. Nannenga-Bremekamp, R. Pasricha, R. Sharma, R.K. Chopra (1990), S. Kaur (1996),

Wrigley and Lado (2005).

Distribution of Myxomycetes in India

Temperature, humidity, rainfall, and topography are the main factors that determine the distribution of Myxomycetes. It is suggested that Myxomycetes attack wood after it has been partially degraded by Basidiomycetes, but their role in the decay of conifer wood may be understated.

The present study provides a checklist containing 373 species of Myxomycetes, 17 varieties and 4 forms within 50 genera, 11 families and 6 orders. (Table 1). Liceales is the dominant order with 3 families. Stemonitaceae is the dominant family with 12 genera and *Physarum* is the dominant genus with up to 76 species in India. Worldwide, these 50 genera recorded in India are represented by 2344 species, 523 varieties, 4 subspecies and 58 forms (Table 2). Various classification systems of Kingdom Fungi have been proposed by mycologists, among which is the recent classification system given by Alexopoulos *et al.* (1996). However, the present study has taken into consideration the Ainsworth system of classification of Fungi. For classification of Myxomycetes (also called Acellular slime moulds or True slime moulds), a system proposed by Martin *et al.* (1983) is used.

Checklist of Myxomycetes reported in India.

The genera and species are listed according to the substrate and areas of India where these are recorded.

Table 2 Distribution of Myxomycetes contributed by Indian workers in comparison with the world data.

Order and Family	Sher Ahmad Lodhi (1934)				Butler & Bisby ex Vasudeva (1960)				Agnihotrudu (1961)			
	Gen.	sp.	var.	for.	Gen.	sp	var	for.	Gen.	sp	var	for.
1. Ceratiomyxales												
Ceratiomyxaceae	1	1	-	-	1	1	-	-	1	2	1	-
2. Physarales												
Physaraceae	6	20	-	-	7	26	1	1	6	48	1	-
Didymiaceae	1	4	-	-	2	8	3	-	3	20	2	-
3. Liceales												
Liceaceae	-	-	-	-	-	-	-	-	-	-	-	-
Reticulariaceae	1	1	-	-	4	4	1	-	4	7	1	-
Cribrariaceae	1	2	-	-	2	2	2	-	2	6	-	-
4. Echinosteliales												
Echinosteliaceae	-	-	-	-	-	-	-	-	-	-	-	-
Clastodermataceae	-	-	-	-	-	-	-	-	-	-	-	-
5. Trichales												
Dianemaceae	-	-	-	-	1	1	1	-	1	1	-	-
Trichiaceae	5	18	-	-	6	25	-	-	7	32	-	-
6. Stemonitales												
Stemonitaceae	3	8	-	-	4	12	-	-	4	24	1	-
Total	18	54	0	0	27	79	8	1	28	140	6	0

Table 2 Continued Distribution of Myxomycetes contributed by Indian workers in comparison with the world data.

Order and Family	Thind (1977)				Lakhanpal & Mukerji (1980)				Present Study (2011)				In World				
	Gen.	sp	var	for.	Gen.	sp	var	for.	Gen.	sp	var	for.	Gen.	sp	var	subsp.	for.
1. Ceratiomyxales																	
Ceratiomyxaceae	1	2	1	-	1	2	1	-	1	2	2	-	1	11	11	-	4
2. Physarales																	
Physaraceae	7	56	-	-	8	77	1	1	8	97	3	2	9	586	153	1	17
Didymiaceae	4	36	-	-	5	67	-	-	5	75	4	-	7	361	44		6
3. Liceales																	
Liceaceae	1	1	-	-	1	14	-	-	2	29	1	-	1	139	15	-	-
Reticulariaceae	4	9	1	-	4	13	-	-	4	14	1		5	138	22	-	1
Cribrariaceae	3	13	-	-	3	21	-	-	3	21	3	2	3	104	38	3	3
4. Echinosteliales																	
Echinosteliaceae	-	-	-	-	1	3	-	-	1	3	-	-	1	17	-	-	-
Clastodermataceae	1	1	-	-	2	3	-	-	2	3	-	-	2	5	1	-	-
5. Trichales																	
Dianemaceae	1	1	-	-	2	2	-	-	3	3	1	-	5	17	6	-	-
Trichiaceae	7	29	-	-	7	44	-	-	9	59	1	-	10	516	113	-	18
6. Stemonitales																	
Stemonitaceae	7	35	-	-	9	47	1	-	12	67	1	-	14	450	120	-	9
Total	36	183	2	0	43	293	3	1	50	373	17	4	58	2344	523	4	58

Gen. – genus **sp.** – species **var.** – variety **subsp.** – subspecies **for.** - forms.

- Arcyodes incarnata* (Alb. & Schw.) O.F. Cook., 1902 (Trichiaceae) On dead wood, decaying twigs and bark of *Diospyros melanoxylon*
Kulu, Pulga, Thatchi, Mandal, Himachal Pradesh; Sagar, Madhya Pradesh.
- Arcyria affinis* (Rost) Nann-Brem., 1875 (Trichiaceae)
On decaying wood.
Delhi.
- Arcyria assamica* Agnihotrudu, 1958 (Trichiaceae)
On decaying frames of tea infected by *Poria* sp.
Tocklai, Assam.
- Arcyria brooksii* Lakhanpal & Mukerji, 1980 (Trichiaceae)
On decaying wood of *Abies pindrow*.
Narkanada, Simla, Himachal Pradesh.
- Arcyria cinerea* (Bull.) Pers., 1801 (Trichiaceae)
On decaying wood, bark, dead stems.
Sinhgad, Pune; Sheva Islands, Bombay; Kolhapur.
- Arcyria denudata* (L.) Wettst., 1886 (Trichiaceae)
On tea bark, wood, decaying frames of tea bush.
Cinnamara, Jorhat, Nazira, Tocklai, Assam; Cuttack, Orissa.
- Arcyria fasciculata* Dhillon & Nann.-Brem., 1978 (Trichiaceae)
On dead wood.
Uttar Pradesh.
- Arcyria ferruginea* Sauter., 1841 (Trichiaceae)
On dead wood and decaying twigs.
Madras; Cinnamara, Jorhat, Assam; Kulu – Pulga, Himachal Pradesh.
- Arcyria glauca* A. Lister, 1908 (Trichiaceae)
On dead wood.
Uttar Pradesh.
- Arcyria globosa* Schw., 1822 (Trichiaceae)
On leaves.
Lebong Forest and Rangaroon Forest, Darjeeling, West Bengal.
- Arcyria gulielmae* Nann. – Brem., 1971 (Trichiaceae)
On decaying wood.
Dalhousie, Himachal Pradesh.
- Arcyria incarnata* Pers., 1796 (Trichiaceae)
On wood and decaying bark and twigs.
Darjeeling, West Bengal; Tamilnadu; Delhi and Himachal Pradesh.
- Arcyria insignis* Kalchbr. & Cooke., 1882 (Trichiaceae)
On dead stems of *Saccharum officinarum*.
Kolhapur, Maharashtra.
- Arcyria magna* Rex, 1893 (Trichiaceae)
On dead wood.
Simla, Himachal Pradesh.
- Arcyria nigella* Emoto., 1977 (Trichiaceae)
On bark of *Cedrus deodara*.
Simla, Himachal Pradesh.
- Arcyria nutans* (Bull.) Grev., 1824 (Trichiaceae)
Dead Wood
Simla, Himachal Pradesh.
- Arcyria occidentalis* (Macbr.) G. Lister, 1911 (Trichiaceae)
On dead coniferous wood.
Simla – Kufri, Himachal Pradesh.
- Arcyria oerstedtii* Rost., 1875 (Trichiaceae)
On dead wood.
New Delhi Ridge, India.
- Arcyria rufosa* S. Kaur & Mukerji, 1996 (Trichiaceae)
On bark of *Shorea robusta* and *Diospyros melanoxylon*.
Madhya Pradesh.
- Arcyria stipata* (Schw.) Lister, 1894 (Trichiaceae)
On dead wood.
Simla – Kotgarh, Himachal Pradesh.

- Arcyria versicolor* Phill., 1877 (Trichiaceae)
On decaying tea twigs.
Cinnamara, Assam.
- Arcyria virescens* Lister, 1921 (Trichiaceae)
On dead wood.
Nainital, Uttar Pradesh.
- Badhamia capsulifera* (Bull.) Berk., 1853
(Physaraceae)
On living mosses and bark of stumps.
Darjeeling, West Bengal.
- Badhamia gracilis* (Macbr.) Macbr., 1934
(Physaraceae)
Dead wood
Delhi, Karnataka
- Badhamia macrocarpa* (Ces.) Rost., 1874
(Physaraceae)
On dead wood, bark and twigs.
Serampore, West Bengal; Coorg, Pollibetta,
Mysore, Karnataka.
- Badhamia nitens* Berk., 1853 (Physaraceae)
On dead wood.
Chandigarh, Himachal Pradesh.
- Badhamia obovata* (Peck.) F.J. Smith., 1961
(Physaraceae)
On dead wood.
Chandigarh, Himachal Pradesh.
- Badhamia papaveracea* Berk. & Rav., 1873
(Physaraceae)
On dead and living exposed roots of deciduous
trees and *Quercus incana*.
Mussoorie, Uttar Pradesh.
- Badhamia utricularis* (Bull.) Berk., 1852
(Physaraceae)
On dead wood and mosses.
Himachal Pradesh and Jammu & Kashmir.
- Badhamia versicolor* A. Lister, 1901
(Physaraceae)
On bark, twigs and leaves of *Artocarpus
integrifolia*.
Assam.
- Badhamia viridescens* Meylan, 1921
(Physaraceae)
On bark, dead twigs & decaying leaves of
Artocarpus integrifolia.
Cinnamara, Assam.
- Barbeyella minutissima* Meylan, 1914
(Clastodermataceae)
On decaying logs associated with mosses and
liverworts.
Himachal Pradesh.
- Brefeldia maxima* (Fr.) Rostaf., 1873
(Stemonitaceae)
On dead stump.
Himachal Pradesh.
- Calomyxa metallica* (Berk.) Nieuwl., 1916
(Dianemaceae)
On dead forest stump.
Jamdhari Ghat, Dalhousie, Himachal Pradesh.
- Calonema dissipatum* Nann. – Brem., R.K.
Chopra & Lakhanpal, 1992 (Trichiaceae)
On bark of *Pinus wallichiana*.
Himachal Pradesh
- Calonema dissipatum* var. *tubigranulatum*
Nann. – Brem., R.K. Chopra & Lakhanpal,
1992 (Trichiaceae)
On bark of *Pinus wallichiana*.
Himachal Pradesh
- Ceratiomyxa fruticulosa* (Muller) Macbr.,
1899 (Ceratiomyxaceae)
On decaying wood.
Purandar Fort, Pune, Maharashtra,
- Ceratiomyxa fruticulosa* var. *arbuscula* (Berk
& Broome) Nann. – Brem., 1975
(Ceratiomyxaceae)
On dead wood.
Dehradun, Uttar Pradesh.
- Ceratiomyxa fruticulosa* var. *filiformis* Berk.
& Br., 1869 (Ceratiomyxaceae)
In coffee plantation.
Karnataka.
- Ceratiomyxa sphaerosperma* Boedijn, 1927
(Ceratiomyxaceae)
On bark of *Camellia sinensis* (tea) infected by

- Fomes lamaensis*.
Cinnamara, Assam; Balehonnur, Mysore.
- Cienkowskia reticulata* (Alb. & Schw.) Rost., 1875. (Physaraceae)
On dead leaves.
Darjeeling, West Bengal.
- Clastoderma debaryanum* Blytt., 1880 (Clastodermataceae)
On bark of *Pheonix rupicola* and other trees.
Amritsar, Punjab; Simla, Himachal Pradesh; Darjeeling, West Bengal.
- Clastoderma dictyosporum* Lakhanpal & Mukherji, 1976 (Clastodermataceae)
On sporophores of basidiomycetes.
Dalhousie, Himachal Pradesh.
- Comatricha aequalis* Peck., 1878 (Stemonitaceae)
On decaying coniferous wood.
Only in Himachal Pradesh.
- Comatricha irregularis* Rex, 1891 (Stemonitaceae)
On wooden posts, rotten stumps.
Baliganj, Calcutta, West Bengal; Mussoorie, Uttar Pradesh.
- Comatricha kowalskii* Lakhanpal & Mukherji, 1977 (Stemonitaceae)
On gymnosperm wood.
Dalhousie, Himachal Pradesh.
- Comatricha laxa* Rost., 1874 (Stemonitaceae)
On dead moist twigs of *Acacia leucophloea*.
Sagar, Madhya Pradesh
- Comatricha laxifila* R.K. Chopra & T.N. Lakh., 1992 (Stemonitaceae)
On bark of *Pinus wallichiana*.
Himachal Pradesh, India.
- Comatricha longa* Peck., 1890 (Stemonitaceae)
On, bark, on dead and decaying bark.
Pune, Maharashtra; Mussoorie, Uttar Pradesh.
- Comatricha lurida* Lister, 1925 (Stemonitaceae)
- On dried twig of *Lantana* spp.
University Campus, Delhi.
- Comatricha martinii* Nanir, 1983 (Stemonitaceae)
On dead wood.
Ahmadpur (Marathwada), India.
- Comatricha nannengae* Lakhanpal & Mukherji, 1977 (Stemonitaceae)
On decaying gymnosperm wood covered with mosses.
Dalhousie, Himachal Pradesh.
- Comatricha nigra* (Pers.) Schroet., 1885 (Stemonitaceae)
On decaying wood of unidentified host and decaying frames of tea bushes infected by *Poria* sp., dead branches of *Erythrina indica*.
Jorhat, Cinnamara, Assam; Coorg, Karnataka.
- Comatricha nodulifera* Wollman & Alexop., 1968 (Stemonitaceae)
On bark of *Cedrus deodara*.
Simla, Himachal Pradesh.
- Comatricha parvispora* Dhillon & Nann.-Brem., 1977 (Stemonitaceae)
On decaying trunk of wood.
Dalhousie, Uttar Pradesh.
- Comatricha pulchella* (Bab.) Rostaf., 1876 (Stemonitaceae)
On dead leaves of *Syzygium* sp., on dead wood, on decomposing tea roots, dead leaves, tea bushes infected by *Ustulina zonata*.
Mahabaleshwar, Amboli, Pachgani, Latur, Maharashtra; Jorhat, Nazira, Tocklai, Assam; Mussoorie, Uttar Pradesh.
- Comatricha rubens* Lister, 1894 (Stemonitaceae)
On dead wood.
Mussoorie, Uttar Pradesh.
- Comatricha subcaespitosa* Peck., 1890 (Stemonitaceae)
On decaying pieces of wood and barks.
Egmore, Madras, Tamilnadu.
- Comatricha suksdorfii* Ellis & Everh., 1884 (Stemonitaceae)

- On bark of *Murraya exotica*.
Nandi Hills, Bangalore, Karnataka.
Comatricha tenerrima (Berk. & M.A. Curtis.)
G. Lister, 1919 (Stemonitaceae)
On dead herbaceous twig.
Mussoorie, Uttar Pradesh; Kulu, Himachal Pradesh.
- Comatricha typhoides*** (Bull.) Rostaf., 1873
(Stemonitaceae)
On rotting bark and wood.
Bhillaru, Khad, Mussoorie, Uttar Pradesh.
- Comatricha variabilis*** R.K. Chopra & T.N. Lakh., 1992 (Stemonitaceae)
On bark of *Cedrus deodara*.
Himachal Pradesh.
- Cornuvia serpula*** (Wigand) Rost., 1873
(Trichiaceae)
On wood and dead leaves.
Purandar fort, Lohagad fort, Pune, Maharashtra; Darjeeling, West Bengal.
- Craterium aurem*** (Schum.) Rostaf., 1874
(Physaraceae)
On leaves of *Eleusine aegyptiaca*, decaying leaves of tea; dead and decaying leaves of *Quercus incana*, dead and decaying twig of *Barberis* sp., dead and decaying leaves of *Saccharum* sp. and *Dalbergia sissoo*.
Mussoorie, Uttar Pradesh; Tocklai, Cinnamara, Nazira, Assam.
- Craterium brunneum*** Nann. – Brem., 1973
(Physaraceae)
On dry leaf of angiosperm, on gymnosperm leaf.
Bhandardara, Ahmednagar, Maharashtra.
- Craterium concinnum*** Rex, 1893
(Physaraceae)
On leaves.
Darjeeling, West Bengal.
- Craterium costatum*** Dhillon & Nann. – Brem., 1977 (Physaraceae)
On *Barberis* sp. leaves.
Uttar Pradesh.
- Craterium leucocephalum*** (Pers.) Ditm., 1813
(Physaraceae)
On dead & decaying leaves; twigs of *Grevillea robusta*, leaves of tea, dead leaves and branches of *Quercus incana*, *Saccharum* spp. and other plants.
Darjeeling, West Bengal; Coorg, Mysore; Hathichunghi, Assam; Mussoorie, Uttar Pradesh; Thatchi, Mandal, Himachal Pradesh.
- Craterium minutum*** (Leers.) Fr., 1829.
(Physaraceae)
On dead leaves of *Grevillea robusta*, dead bamboo leaves.
Mussoorie, Uttar Pradesh; Darjeeling, West Bengal; Tocklai, Jorhat, Assam; Calcutta, West Bengal.
- Craterium rubronodum*** G. List., 1915
(Physaraceae)
Habitat not given.
Serampore, Calcutta, West Bengal.
- Cribraria argillacea*** (Pers.) Pers., 1794
(Cribrariaceae)
On dead wood.
Simla, Kotgarh, Himachal Pradesh.
- Cribraria aurantiaca*** Schrad., 1797
(Cribrariaceae)
On decaying gymnosperm wood.
Mandal, Narkanda, Himachal Pradesh.
- Cribraria costata*** Dhillon, Nann. – Brem., 1978 (Cribrariaceae)
On stump of conifer.
Himachal Pradesh.
- Cribraria dictydiodes*** Cooke & Balf., 1892
(Cribrariaceae)
On rotten wood, roots and dead mosses.
Kempty falls, Mussoorie, Uttar Pradesh.
- Cribraria intricata*** Schrad., 1797
(Cribrariaceae)
On rotten wood, rotten roots, dead mosses etc.
Mussoorie, Uttar Pradesh; Darjeeling, West Bengal; Cuttack, Orissa.
- Cribraria intricata*** f. *simlae* Thind & Lakhanpal, 1968 (Cribrariaceae)
On decaying wood.

Mahasu, Himachal Pradesh.

Cribraria intricata Schrad. var. *dictyioides*
(Cooke & Balf.) List., 1894 (Cribrariaceae)
On rotten wood.
Mussoorie, Uttar Pradesh; Darjeeling, West
Bengal.

Cribraria intricata var. *simlae* Thind &
Lakhanpal, 1968 (Cribrariaceae)
On dead wood.
Simla, Himachal Pradesh.

Cribraria languescens Rex, 1891
(Cribrariaceae)
On decaying wood.
Mussoorie, Uttar Pradesh.

Cribraria languescens f. *magnigranosus*
Thind & Sohi, 1957 (Cribrariaceae)
On rotten stems and mosses.
Mussoorie, Uttar Pradesh.

Cribraria macrocarpa Schrad., 1797
(Cribrariaceae)
On dead wood.
Inner Seraj Khanag, Himachal Pradesh.

Cribraria meylanii Brandza., 1929
(Cribrariaceae)
On dead wood.
Manali, Himachal Pradesh.

Cribraria minutissima Schw., 1832
(Cribrariaceae)
On bark of living tree.
Himachal Pradesh.

Cribraria pachydictyon Nann. – Brem., 1966
(Cribrariaceae)
On bark of *Pinus excelsa*.
Simla, Himachal Pradesh.

Cribraria personii Nann. – Brem., 1971
(Cribrariaceae)
On decaying wood of *Abies pindrow*.
Simla, Himachal Pradesh.

Cribraria piriformis Schrad., 1797
(Cribrariaceae)
On decaying wood in a coniferous forest.
Dalhousie, Himachal Pradesh.

Cribraria purpurea Schrad., 1797
(Cribrariaceae)
On rotten wood.
Kulu, Pulga, Himachal Pradesh.

Cribraria rubiginosa Fries, 1829
(Cribrariaceae)
On mosses growing on a log.
Mahasu, Narkanda, Himachal Pradesh.

Cribraria splendens (Schrad.) Pers., 1801
(Cribrariaceae)
On dead wood.
Simla, Himachal Pradesh.

Cribraria tenella Schrad., 1797 (Cribrariaceae)
On rotten wood.
Simla, Kumarsain, Himachal Pradesh.

Cribraria violacea Rex, 1891 (Cribrariaceae)
On blotting paper.
University Campus, Chandigarh.

Cribraria vulgaris Schrad., 1797 (Cribrariaceae)
On dead leaves.
Bhandardara, Ahmednagar, M. S.

Cribraria vulgaris var. *aurantiaca* (Schrad.)
Pers., 1801 (Cribrariaceae)
On wood.
Dargeeling, West Bengal.

Diachea bulbillosa (Berk. & Br.) Lister, 1898
(Stemonitaceae)
On attached green foliage of *Hedra helix*, dead
leaves of *Quercus incana* and dead leaves and
twigs of other plants.
Mussoorie, Uttar Pradesh.

Diachea khandalensis Patil & Ranade, 1974
(Stemonitaceae)
On decaying leaves of *Mangifera indica*.
Khandala. Maharashtra.

Diachea leucopodia (Bull.) Rostaf., 1874
(Stemonitaceae)
On dead leaves and sticks, dead leaves of
Quercus incana, dead leaves of *Strobilanthus*
spp. leaves and culms of *Eleusine aegyptia*,
leaves and petioles of *Mangifera indica*.
Mussoorie, Uttar Pradesh; Nazira, Jorhat,
Assam; Cuttack, Orissa; Balihonnur, Mysore.

- Diachea megalospora*** Thind & Manocha, 1964 (Stemonitaceae)
On dead ferns, dead leaves and twigs, often on living plants.
Serampore, Darjeeling – Lebong Forest, West Bengal; Mussoorie, Uttar Pradesh; Cinnamara, Assam.
- Diachea radiata*** G. Lister & Petch., 1916 (Stemonitaceae)
On stones, living leaves of grass and on *Boerhaavia* spp.
Delhi University Campus, Delhi.
- Diachea splendens*** Peck, 1878 (Stemonitaceae)
On dead leaves and twigs, on living plants.
Mussoorie, Uttar Pradesh; Dharanghati, Himachal Pradesh; Cuttack, Orissa; Delhi.
- Diachea subsessilis*** Peck., 1879 (Stemonitaceae)
On dead leaves and twigs, on living herbs.
Tamilnadu; Dehradun, Uttar Pradesh; Coorg, Polibetta, Karnataka.
- Diacheopsis depressa*** Thind & Lakhanpal, 1969 (Cribrariaceae)
On dead leaves of *Iris* sp.
Kulu, Himachal Pradesh.
- Dianema nivale*** (Meyl.) G. Lister, 1925 (Dianemaceae)
On decaying stump.
Narkanda, Himachal Pradesh.
- Dictydiaethalium dictyosporum*** Nann. – Brem., 1966 (Reticulariaceae)
Host not mentioned.
Sikkim.
- Dictydiaethalium plumbeum*** (Schum.) Rostaf., 1894 (Reticulariaceae)
On dead branches of *Allophyllus cobbe*, *Vangueria spinosa*.
Radhanagari, Kolhapur, Maharashtra.
- Dictydiaethalium plumbeum* var., *entoxanthum*** (Berk.) G. Lister, 1922 (Reticulariaceae)
On dead and decaying wood.
Sikkim.
- Dictydium cancellatum*** (Batsch.) Macbr., 1899 (Cribrariaceae)
On rotten stump, bark.
Darjeeling, West Bengal; Mussoorie, Jabber, Uttar Pradesh; Jorhat, Assam; Simla, Himachal Pradesh.
- Dictydium mirabile*** (Rost.) Meylan, 1931 (Cribrariaceae)
On dead wood.
Simla, Himachal Pradesh.
- Diderma alexopoulii*** Lakhanpal, 1978 (Didymiaceae)
On moss covered gymnosperm stump.
Himachal Pradesh.
- Diderma alpino-spumarioides*** Thind, 1977 (Didymiaceae)
On dead leaves and twigs, sometimes on living moss.
Mussoorie – Lal Tibba, Uttar Pradesh.
- Diderma alpinum*** (Meyl.) Meyl., 1917 (Didymiaceae)
On grass.
Pune University Campus, Pune, Maharashtra; Mussoorie, Uttar Pradesh.
- Diderma asteroides*** (A. & G. Lister) G. Lister, 1911 (Didymiaceae)
On decaying wood.
Simla Hills, Kotgarh, Himachal Pradesh.
- Diderma badhamioides*** Thind, 1977 (Didymiaceae)
On mosses growing on bark of a tree.
Darjeeling, West Bengal.
- Diderma chondrioderma*** (Deb. & Rot.) Kuntze., 1898 (Didymiaceae)
On decaying leaves of *Lagerstromia* sp. and *Grevillea robusta*, under undetermined weeds and fronds of *Pteris* spp., live mosses and bark of tree, bark of *Azadirachta indica*, dead wood and fallen leaves.
Tocklai, Nazira, Assam; Darjeeling, West Bengal; Delhi; Thatchi, Mandal, Himachal Pradesh.
- Diderma cingulatum*** Nann.-Brem., 1968

(Didymiaceae)

On moist soil.
Waghai, Dang, Gujarat.

Diderma circumscissile Patil, Mishra & Ranade, 1979 (Didymiaceae)

On dead leaves of *Mangifera indica*.
Lohgad, Pune, Maharashtra.

Diderma combrum Macbr. (Didymiaceae)

On dead stump
Sara, Chamba, Simla, Glen, Himachal Pradesh.

Diderma cor-rubrum Macbr., 1922 (Didymiaceae)

On moss covered stump.
Manali, Himachal Pradesh.

Diderma crustaceum Peck, 1873 (Didymiaceae)

On dead twigs and fruits of *Pterocarpus marsupium*, *Nyctanthes arbortristis*, *Porana volubilis*.
Madras, Tamilnadu.

Diderma darjeelingense Thind & Sehgal, 1964 (Didymiaceae)

On leaves of herbs.
Sinchal Forest, Darjeeling, West Bengal.

Diderma deplanatum Fr., 1829 (Didymiaceae)

On dead leaves and twigs of *Quercus incana* and other plants.
Jabber, Khet, Mussoorie, Uttar Pradesh.

Diderma effusum (Schw.) Morg., 1894 (Didymiaceae)

On rotting palms and other leaves, leaves of *Setaria* sp., *Artocarpus integrifolia*, living leaves of Cucurbitaceae, decaying leaf sheath of *Areca catechu*, dead leaves of Scitamineae.
Baliganj and Darjeeling, West Bengal; Tocklai, Hathi chungi, Cinnamara, Jorhat, Assam; Mussoorie, Uttar Pradesh; Madras, Tamilnadu.

Diderma globosum Pers., 1794 (Didymiaceae)

On dead leaves of *Agave* sp.
Kotwali Bazar, Dharamshala, Himachal Pradesh.

Diderma hemisphaericum (Bull.) Hornem.,

1829 (Didymiaceae)

On dead leaves of *Eleusine aegyptia*, *Croton sparsiflorus*, *Crotolaria juncea*, *Salvia* sp., *Pleopeltis* sp., *Alpinia* sp.
Madras, Tamilnadu.

Diderma indicum Thind & Sehgal, 1964 (Didymiaceae)

On mosses and moss covered stump of gymnosperms.
Himachal Pradesh; West Bengal.

Diderma lohgadense Patil, Ranade & Mishra, 1979 (Didymiaceae)

On dead and fallen leaves of *Mangifera indica*.
Lohgad, Pune, Maharashtra.

Diderma lyallii (Masse) Macbr., 1899 (Didymiaceae)

On dead leaves.
Panchgani, Satara, Maharashtra.

Diderma marieae Patil, Mishra & Ranade, 1979 (Didymiaceae)

On dead leaves of *Mangifera indica*.
Lohgad, Pune, Maharashtra.

Diderma mussooriense Thind & Manocha, 1964 (Didymiaceae)

On dead leaves and twigs.
Jam Bridge, Mussoorie, Uttar Pradesh.

Diderma niveum (Rost.) Macbr., 1899 (Didymiaceae)

On dead leaves.
Dalhousie, Uttar Pradesh.

Diderma platycarpum var. *platycarpum* Nann-Brem., 1966 (Didymiaceae)

On dead and decaying angiosperm leaves.
Delhi.

Diderma punense Patil, Ranade & Mishra, 1979 (Didymiaceae)

On dead leaves.
Pune, Maharashtra.

Diderma radiatum (L.) Morg., 1894 (Didymiaceae)

On dead wood.
Bhintal, Uttar Pradesh; Kulu, Himachal

Pradesh.

Diderma radiatum (L.) Morg. var.
umbilicatum (Pers.) G. Lister, 1913
(Didymiaceae)
On dead wood.
North India.

Diderma reticulosporum Nann.-Brem.,
Mukherji & Pasricha, 1984 (Didymiaceae)
On dead leaf.
Madhya Pradesh, India.

Diderma rimosum U. Eliass and Nann.-Brem.,
1983 (Didymiaceae)
On dry leaves of angiosperm.
Rengola, Lakhandur, Bhandara; Saptashrungi,
Nashik.

Diderma roanense (Rex) Macbr., 1899
(Didymiaceae)
On dead wood.
Manali, Kulu, Himachal Pradesh.

Diderma rugosum (Rex) Macbr., 1899
(Didymiaceae)
On decomposing leaves of *Cocos nucifera*
Agriculture Horticulture Garden, Madras,
Tamil Nadu.

Diderma simplex (Schroet.) G. Lister, 1911
(Didymiaceae)
On dead leaves.
Darjeeling, West Bengal.

Diderma spumariodes (Fr. & Palmquist) Fr.,
1829 (Didymiaceae)
On living moss and dead leaves of *Quercus*
incana.
Mussoorie, Uttar Pradesh.

Diderma subdictyospermum (Rost.) List.,
1911 (Didymiaceae)
On fern fronds, dead wood.
Kankeshwar, Maharashtra; Kangra, Himachal
Pradesh; Mysore, Karnataka; Thatchi, Mandal,
Himachal Pradesh.

Diderma testaceum (Schrad.) Pers., 1801
(Didymiaceae)
On dead leaves of *Agave* sp and *Tectona*
grandis, on dead leaf in Cardamom plantation.

Mahabaleshwar, Pachgani, Amboli,
Maharashtra; Murnad, Coorg, Mysore,
Karnataka.

Diderma trevelyani (Grev.) Fries, 1829
(Didymiaceae)
On dead wood.
Himachal Pradesh.

Didymium anellus Morg., 1894 (Didymiaceae)
On bark of *Mangifera indica*.
Dehradun, Uttar Pradesh.

Didymium chrysosporum Lakhanpal &
Mukerji, 1979 (Didymiaceae)
On decaying angiosperm leaves,
Delhi.

Didymium clavus (Alb. & Schw.) Rab., 1844
(Didymiaceae)
On decaying bamboo mats, palm leaves, twigs
of *Ipomea* sp.
Madras, Tamil Nadu.

Didymium crustaceum Fr., 1829
(Didymiaceae)
On decaying bamboo mat, dead twig of *Ipomea*
sp., living herbaceous twigs.
Madras, Tamilnadu; Kulu, Himachal Pradesh.

Didymium delhianum Lakhanpal & Mukerji,
1979 (Didymiaceae)
On decaying angiosperm leaves.
Delhi.

Didymium difforme (Pers.) S.F. Gray, 1821
(Didymiaceae)
On dead leaves of *Tectona grandis*, on dead
and decaying leaves and twigs of *Helianthus*
annuus and other members of Compositae.
Manabaleshwar, Katraj, Bhimashankar,
Maharashtra; Mussoorie, Uttar Pradesh.

Didymium disciforme Kowaleski &
Lakhanpal, 1973 (Didymiaceae)
On dead leaves of *Ficus benghalensis*.
Delhi.

Didymium discoideum Thind & Sehgal, 1964
(Didymiaceae)
On dead leaves.
Senchal Forest, Darjeeling, West Bengal.

- Didymium dubium* Rostaf., 1874
(Didymiaceae)
On dead palm leaves, twigs and bamboo mats,
on grass and ferns.
Madras, Tamilnadu; Kulu, Himachal Pradesh.
- Didymium flexuosum* Yamashiro, 1936
(Didymiaceae)
On dead leaves, leaf litter in coffee plantations.
Nandi hills, Madal, Himachal Pradesh;
Polibetta, Coorg, Karnataka.
- Didymium floccosum* Martin, Thind & Rehill,
1959 (Didymiaceae)
On dead leaves.
Dehradun, Uttar Pradesh.
- Didymium fulvum* Sturgis, 1917
(Didymiaceae)
On decaying wood.
Haretta, Hamirpur, Himachal Pradesh.
- Didymium haretianum* Lakhanpal & Mukerji,
1979 (Didymiaceae)
On decaying angiosperm leaves.
Hamirpur, Himachal Pradesh.
- Didymium intermedium* Schroet., 1896
(Didymiaceae)
On bark.
Delhi.
- Didymium iridis* (Ditm.) Fr., 1829
(Didymiaceae)
On dead leaves of *Quercus incana*, living
leaves of *Gerbera* sp., on twigs of *Diospyros
melanoxylon*.
Kulu, Himachal Pradesh; Mussoorie, Uttar
Pradesh; Sagar, Madhya Pradesh.
- Didymium karstensii* Nann.-Brem., 1964
(Didymiaceae)
On decaying leaves of *Ficus religiosa*.
Delhi.
- Didymium lenticulare* Thind & Lakhanpal,
1969 (Didymiaceae)
On fern fronds.
Kulu Hills, Himachal Pradesh.
- Didymium leoninum* Berk. & Br., 1875
(Didymiaceae)
On dead leaves of *Mahonia* sp., ferns and other
plants.
Mussoorie, Uttar Pradesh.
- Didymium megalosporum* Berk. & Curt., 1873
(Didymiaceae)
On litter of *Coffea arabica*.
Coorg, Karnataka; Madras, Tamil Nadu.
- Didymium melanospermum* (Pers.) Macbr.,
1899 (Didymiaceae)
On dead leaves and twigs.
Tamil Nadu; Uttar Pradesh.
- Didymium melanospermum* Macbr. var.
bicolor List., (Didymiaceae)
On dead wood and leaves.
Landour, Mussoorie, Uttar Pradesh; Jobner,
Rajasthan.
- Didymium minus* (Lister) Morg., 1894
(Didymiaceae)
On dead leaves and twigs, sometimes on living
grasses.
Palni Hills, Tamilnadu; Mussoorie, Uttar
Pradesh; Darjeeling, West Bengal.
- Didymium mirabile* (Rost.) Meylan
(Didymiaceae)
On dead wood.
Simla, Baghi, Himachal Pradesh.
- Didymium muscorum* Lakhanpal & Mukerji,
1976 (Didymiaceae)
On decaying leaves and twigs.
Delhi.
- Didymium nigripes* (Link) Fr., 1818
(Didymiaceae)
On dead leaves, vegetable debris.
Madras, Tamil Nadu; Serampore, Calcutta,
West Bengal; Delhi; Assam; Mussoorie, Uttar
Pradesh.
- Didymium nigripes* (Link) Fr. var. *xanthopus*
(Ditm.) List., 1894 (Didymiaceae)
On decaying leaves.
Serampore, West Bengal.
- Didymium nigrisporum* Nann.-Brem., K.G.
Mukherji & R. Pasricha, 1984

- (Didymiaceae)
On herbaceous stem.
Madhya Pradesh.
- Didymium ochroideum* G. List., 1931
(Didymiaceae)
On dead leaves.
Serampore, West Bengal.
- Didymium ovoideum* Nann.-Brem., 1958
(Didymiaceae)
On dead leaves.
Baghi, Himachal Pradesh.
- Didymium perforatum* Yamashiro, 1936
(Didymiaceae)
On living grass leaves.
Chandigarh.
- Didymium projectile* Lakhanpal & Mukerji, 1979 (Didymiaceae)
On living fern fronds, dry needles of *Cedrus deodara*.
Himachal Pradesh.
- Didymium quitense* (Pat.) Torrend, 1908
(Didymiaceae)
On grass stem, dead potato leaves.
Dalhousie, Himachal Pradesh.
- Didymium saturnus* Keller, 1970
(Didymiaceae)
On cotton and maize leaves, kangaroo dung.
Delhi.
- Didymium simlense* Lakhanpal & Mukerji, 1979 (Didymiaceae)
On dead leaves of *Quercus incana*.
Himachal Pradesh.
- Didymium squamulosum* (Alb. & Schw.) Fr. & Palmquist, 1818 (Didymiaceae)
On dead leaves of *Quercus incana*, twigs, bark and other substrates, decaying leaves of *Diospyros melanoxylon*.
Mussoorie Uttar Pradesh; Delhi; Sagar, Madhya Pradesh.
- Didymium sturgisii* Hagelst., 1937
(Didymiaceae)
On *Pinus* sp. bark.
- Tamil Nadu; Uttar Pradesh.
- Didymium tubi-crystallinum* Nann.-Brem. & Critchfield, 1988 (Didymiaceae)
On dead herbaceous twig.
Milind Garden, Aurangabad, Maharashtra.
- Didymium vaccinum* (Dur. & Mont.) Buchet, 1920 (Didymiaceae)
On rotten unidentified leaves.
Cuttack, Orissa.
- Didymium verrucosporum* Weldem., 1954
(Didymiaceae)
On decaying stem of *Euphorbia royleana* and *Saccharum* sp., leaf litter.
Kulu, Himachal Pradesh; Madras, Tamil Nadu.
- Echinostelium cribrariodes* Alexop., 1961
(Echinosteliaceae)
On bark of *Rhododendron* sp.
Simla, Himachal Pradesh.
- Echinostelium elachiston* Alexop., 1958
(Echinosteliaceae)
On bark of *Eucalyptus* sp.
Delhi University; Shevan Islands, Bombay.
- Echinostelium minutum* de Bary, 1873
(Echinosteliaceae)
On bark of *Populus* sp.
Simla, Himachal Pradesh; Shevan Islands, Bombay; Jammu & Kashmir.
- Elaeomyxa miyazakiensis* (Emoto) Hagelstein, 1942 (Stemonitaceae)
On rotten wood.
Cuttack, Orissa.
- Erionema aureum* Penzig, 1898
(Physaraceae).
On moss covering decaying wood of *Abies pindrow*.
Narkanda, Simla, Himachal Pradesh.
- Fuligo cinerea* (Schw.) Morg., 1896
(Physaraceae)
On bark and cow dung, on dead leaves of *Dalbergia sissoo*, *Saccharum* sp. and on rotten cloth pieces.
S. P. College campus, Pune, Maharashtra;

Doiwala, Dehradun, Uttar Pradesh; Delhi.

Fuligo intermedia Macbr., 1922 (Physaraceae)
On dry stem of *Euphorbia* sp.
Daulatabad, Aurangabad, Maharashtra.

Fuligo megaspora Sturgis, 1913 (Physaraceae)
On wood, soil and leaves.
Chandigarh, Himachal Pradesh.

Fuligo septica for. *ovata* (Schaeff.) Pers.,
(Physaraceae)
On decaying bark, leaves.
Assam; Chandigarh, Himachal Pradesh; Tamil
Nadu.

Fuligo septica (L.) F.H. Wigg, 1780
(Physaraceae)
On decaying vegetable debris in pigeon pea
field.
Agricultural Horticultural Gardens, Madras,
Tamil Nadu.

Hemitrichia calyculata (Speg.) Farr, 1974
(Trichiaceae)
On wood, on decaying gymnosperm wood.
Kanakeshwar, Mahabaleshwar, Maharashtra;
Assam; Mandi, Narkanda, Himachal Pradesh;
Orissa, Uttar Pradesh.

Hemitrichia clavata (Pers.) Rostaf., 1873
(Trichiaceae)
On wood, on dead wood and rotten wood.
Mahabaleshwar, Maharashtra; Darjeeling,
West Bengal; Mussoorie, Uttar Pradesh;
Madal, Kulu, Manali, Himachal Pradesh;
Sagar, Madhya Pradesh.

Hemitrichia imperialis G. Lister, 1929
(Trichiaceae)
On dead and decaying wood.
Kulu, Himachal Pradesh.

Hemitrichia karstenii (Rostaf.) List., 1894
(Trichiaceae)
On dead wood and palm.
Darjeeling, Baliganj, Calcutta, West Bengal;
Assam.

Hemitrichia leotrichia (Lister) G. Lister, 1911
(Trichiaceae)

On *Acacia pinnata*, on bark of *Pinus excelsa*
kept in moist chamber.
Amboli, Ratnagiri, Maharashtra; Himachal
Pradesh.

Hemitrichia serpula (Scop.) Rostaf., 1873
(Trichiaceae)
On decaying leaves of palm like *Areca
catechu*, *Cocos nucifera*, *Agave* sp., on dead
wood, mosses, leaf blade of *Musa paradisiaca*.
Mahabaleshwar, Purandar fort, Vani, Amboli,
Maharashtra; Darjeeling, West Bengal;
Mussoorie, Uttar Pradesh; Tocklai, Assam;
Panchmarhi, Madhya Pradesh.

Hemitrichia stipitata (Masse) Macbr., 1899
(Trichiaceae)
On dead wood, living mosses, decaying wood
of *Albizia procera*, bark of *Mangifera indica*,
root and root bark of Tea bush.
Mussoorie, Uttar Pradesh; Tocklai, Jorhat,
Assam; Polibetta, Coorg, Karnataka; Cuttack,
Orissa; Thatchi, Mandi, Himachal Pradesh.

Hemitrichia vesparium (Batsch) Macbr., 1899
(Trichiaceae)
On dead wood, rotten wood.
Kotgarh, Simla, Himachal Pradesh; Mussoorie,
Uttar Pradesh; Balehonnur, Mysore, Karnataka.

Lamproderma alexopouli Lakhanpal &
Mukherji, 1979 (Stemonitaceae)
On decaying angiosperm leaves and
herbaceous twigs.
Delhi.

Lamproderma arcyronema Rost., 1874.
(Stemonitaceae)
On dead leaves, wood and mosses.
Mussoorie, Uttar Pradesh; Darjeeling, West
Bengal; Simla, Himachal Pradesh; Kalka,
Punjab.

Lamproderma collinsi Lakhanpal & Mukherji,
1979 (Stemonitaceae)
On decaying wood of *Abies pindrow*.
Narkanda, Simla, Himachal Pradesh.
Lamproderma columbinum (Pers.) Rostaf.,
1873 (Stemonitaceae)
On moss covered stump.
Kulu, Pulja, Himachal Pradesh.

- Lamproderma echinulatum*** (Berk.) Rostaf., 1876 (Stemonitaceae)
On moss.
Darjeeling, West Bengal.
- Lamproderma griseum*** Thind & Lakhanpal, 1969 (Stemonitaceae)
On decaying leaves of *Iris* sp.
Kulu, Manali, Himachal Pradesh.
- Lamproderma retispora*** Dhillon & Nann. – Brem., 1977 (Stemonitaceae)
On *Quercus* sp. leaves.
Uttar Pradesh.
- Lamproderma scintillans*** (Berk. & Br.) Morgan, 1894 (Stemonitaceae)
On dead leaves of *Mangifera indica* and *Tectona grandis*, on decaying palm leaves.
Sinhgad, Lohagad, Pachgani, Pune, Khandala, Maharashtra; Darjeeling, West Bengal; Mussoorie, Baliganj, Uttar Pradesh.
- Lamproderma thindianum*** Lakhanpal & Mukerji, 1979 (Stemonitaceae)
On decaying leaves of *Iris* sp.
Kulu, Manali, Himachal Pradesh.
- Lamproderma verrucosum*** Martin, Thind & Sohi, 1957 (Stemonitaceae)
On dead leaves of *Quercus incana*.
The Company Garden, Mussoorie, Uttar Pradesh.
- Leocarpus fragilis*** (Dicks.) Rostaf., 1875 (Physaraceae)
On bark of *Cedrus deodara*, dead needles of *Pinus* sp. and *Cedrus* sp.
Leudon, Mussoorie, Uttar Pradesh; Simla, Himachal Pradesh.
- Lepidoderma effusum*** Rokade & Nanir, 2004 (Didymiaceae)
On dry straw of angiosperm plants.
Kolegaon, Malsiras, Solapur, Maharashtra; Gujarat; Madhya Pradesh.
- Lepidoderma tigrinum*** (Schrad) Rostaf., 1873 (Didymiaceae)
On dead wood, fallen needles of *Pinus* sp. and *Cedrus* sp.
- Kodai forest, Karnataka; Mussoorie, Uttar Pradesh; Kulu, Himachal Pradesh.
- Lepidodermopsis leonina*** (Berk. & Br.) Hohn., 1909 (Didymiaceae)
On dead and decaying leaves, fern fronds.
Simla, Himachal Pradesh; Uttar Pradesh.
- Lepidodermopsis martinii*** T. N. Lakh., 1978 (Didymiaceae)
On stumps of *Cedrus deodara*.
Himachal Pradesh.
- Leptoderma irridescens*** G. Lister, 1913 (Stemonitaceae)
On decaying gymnosperm wood.
Kalatop, Dalhousie, Himachal Pradesh; Tamil Nadu.
- Licea belmontiana*** Nann.-Brem., 1966 (Liceaceae)
On bark of *Abies pindrow*, *Pinus* sp.
Himachal Pradesh; Shivan Islands, Bombay.
- Licea biforis*** Morgan., 1893 (Liceaceae)
On decaying wood.
Darjeeling, West Bengal; Chandigarh, Himachal Pradesh.
- Licea castanea*** G. Lister., 1911 (Liceaceae)
On bark of *Aesculus indica*.
Chandigarh, Himachal Pradesh.
- Licea confundens*** T.N. Lakhanpal, N.E. Nann.-Brem. & R.K. Chopra, 1990 (Liceaceae)
On bark of *Quercus incana*.
Himachal Pradesh.
- Licea elloriana*** Nanir & Rokade, 2003 (Liceaceae)
On dry leaves of angiosperm.
Panhala, Kolhapur, Maharashtra; Gujarat, Madhya Pradesh.
- Licea erecta*** Thind & Dhillon, 1967 (Liceaceae)
On decaying bamboo twig.
Darjeeling, West Bengal.
- Licea exiguum*** (Authority and year not mentioned) (Liceaceae)

- On unidentified bark.
Sagar, Madhya Pradesh.
- Licea floriformis* T.N. Lakhanpal & R.K. Chopra, 1990 (Liceaceae)
On bark of *Quercus incana*.
Himachal Pradesh.
- Licea hydragyra* Nann.-Brem., T.N. Lakhanpal & R.K. Chopra, 1990 (Liceaceae)
On bark of *Quercus incana*.
Himachal Pradesh.
- Licea lilacina* Nann.-Brem., T.N. Lakhanpal & R.K. Chopra, 1990 (Liceaceae)
On bark of *Quercus incana*.
Himachal Pradesh.
- Licea kleistobolus* Martin, 1942 (Liceaceae)
On bark.
Shivan Islands, Bombay.
- Licea marginata* Nann.-Brem., 1965 (Liceaceae)
On fallen leaves of *Tectona grandis*.
Nandoshi, Vitthalwadi, Pune, Maharashtra.
- Licea minima* Fr., 1829 (Liceaceae)
On decaying gymnosperm wood.
Glen, Simla, Himachal Pradesh.
- Licea morchelloides* T.N. Lakhanpal, Nann.-Brem. & R.K. Chopra, 1990 (Liceaceae)
On bark of *Quercus incana*.
Himachal Pradesh.
- Licea mysorensis* Agnihothrudu, 1965 (Liceaceae)
On bark of *Coffea arabica*.
Saklespur, Hassan, Karnataka.
- Licea nigromarginata* Nann.-Brem., T.N. Lakhanpal & R.K. Chopra, 1990 (Liceaceae)
On bark of *Pinus wallichiana*.
Himachal Pradesh.
- Licea operculata* (Wingate) Martin., 1942 (Liceaceae)
On bark of *Cedrus deodara*.
Simla, Himachal Pradesh.
- Licea pedicellata* (Gilbert.) Gilbert, 1942 (Liceaceae)
On bark of *Butea monosperma* and *Acacia leucophloea*, *Pinus excelsa*.
Sagar, Madhya Pradesh; Simla, Himachal Pradesh.
- Licea perexigua* Brookes & Keller, 1977 (Liceaceae)
On bark of living tree.
Simla, Himachal Pradesh.
- Licea punctiformis* Martin, 1969 (Liceaceae)
On horse dung.
Nainital, Uttar Pradesh.
- Licea scyphoides* Brookes & Keller., 1977. (Liceaceae)
On bark of living trees.
Simla, Himachal Pradesh.
- Licea sinhgadensis* Patil, Ranade & Mishra., 1977 (Liceaceae)
On dead leaves of *Tectona grandis*.
Sinhgad, Pune, Maharashtra.
- Licea tenera* Jahn, 1919 (Liceaceae)
On horse dung.
Delhi; Chandigarh, Himachal Pradesh.
- Licea testudinacea* Nann - Brem., 1965 (Liceaceae)
On bark of *Abies pindrow*.
Himachal Pradesh.
- Licea tuberculata* var. *papillata* Nann.-Brem., T.N. Lakhanpal & R.K. Chopra, 1990 (Liceaceae)
On bark of *Quercus incana*.
Himachal Pradesh.
- Licea variabilis* Schrad, 1797 (Liceaceae)
On horse dung.
Delhi.
- Licea verrucospora* (T.N. Lakh., Nann.-Brem. & R.K. Chopra) D. Wrigley & Lado, 2005 (Liceaceae)
On bark of living *Quercus incana*.
Simla, Himachal Pradesh.

- Lindbladia tubulina* Fr., 1849 (Cribrariaceae)
On decaying gymnosperm wood.
Simla, Narkanda. Himachal Pradesh.
- Lycogala conicum* Pers., 1801
(Reticulariaceae)
On dead wood, fresh stump of *Pinus roxburghii*.
Mussoorie, Uttar Pradesh; Manali, Mandal, Thatchi, Simla, Jakhu & Ellen, Himachal Pradesh.
- Lycogala epidendrum* (L.) Fries, 1829
(Reticulariaceae)
On dung, decaying leaves, dead wood
Mahabaleshwar, Pachgani, Vani hills, Maharashtra; Sikkim; Darjeeling, West Bengal; Nilgiri hills, Madras; Pahlgan, Kashmir.
- Lycogala exiguum* Morgan, 1893
(Reticulariaceae)
On rotten wood, dead stump of *Cedrus* sp.
Saklespur, Karnataka; Assam; Himachal Pradesh.
- Lycogala flavofuscum* (Ehrenb.) Rost., 1873
(Reticulariaceae)
On dead gymnospermous wood.
Nainital, Uttar Pradesh.
- Lycogala mysorensis* (Agnihotrudu)
Agnihotrudu, 1966 (Reticulariaceae)
On soil.
Ossoor Coffee Estate, Karnataka.
- Macbrideola coprophila* Nann.-Brem., Mukerji and N. Singh, 1979 (Stemonitaceae)
On dung of peacock.
Rajasthan; Delhi.
- Macbrideola cornea* (G. Lister & Cran) Alexo., 1967 (Stemonitaceae)
On bark of *Abies* sp. and *Pinus excelsa*.
Jaku hills, Narkanda, Simla, Himachal Pradesh.
- Macbrideola indica* (Sarbhoy, S.M. Singh & D.K. Agarwal) Nann.-Brem., Lakhanpal, Mukerji & H. Singh, 1981 (Stemonitaceae)
On dung of peacock.
Rajasthan; Delhi.
- Macbrideola robusta* Pal & Mukherji, 1977 (Stemonitaceae)
On bark of *Rhododendron* sp.
Simla, Himachal Pradesh.
- Margarita mettalica* (Berk.) List., 1894 (Dianemaceae)
On dead wood
Kotgarh, Simla hills, Himachal Pradesh.
- Margarita mettalica* (Berk.) List. var. *plasmodiocarpa* (Blytt) R.E. Fries., 1925 (Dianemaceae)
On dead wood.
Western Himalayas.
- Metatrichia arundinariae* (Rammeloe) Lakhanpal & Mukherji, 1977 (Trichiaceae)
On decaying gymnosperm wood.
Himachal Pradesh.
- Metatrichia vesparium* (Batsch.) Nann.-Bremk. ex. G.W. Martin & Alexop., 1969 (Trichiaceae)
On dead and rotten wood of *Poria* sp.
Simla, Kotgarh, Himachal Pradesh; Mussoorie, Jabbar khet, Uttar Pradesh.
- Oligonema flavidum* (Peck) Peck, 1879 (Trichiaceae)
On dead leaves.
Kotgarh, Simla hills, Himachal Pradesh; Serampore, Darjeeling, West Bengal; Mussoorie, Uttar Pradesh.
- Perichaena chryso sperma* (Currey) List., 1894 (Trichiaceae)
On dead wood, dead and decaying leaves of *Agave* sp.
Darjeeling, West Bengal; Mussoorie, Uttar Pradesh; Tamil Nadu.
- Perichaena corticalis* (Batsch.) Rost., 1875 (Trichiaceae)
On bark.
Chandigarh.
- Perichaena depressa* Libert, 1837 (Trichiaceae)
On bark of *Aleuria montana*, dead wood of a

deciduous tree and bark of a tree. Darjeeling, West Bengal; Tocklai, Assam; Dehradun, Uttar Pradesh; Delhi; Tamil Nadu; Himachal Pradesh; Amritsar, Punjab.

Perichaena microspora Penz. & A. Lister, 1898 (Trichiaceae)

On dry angiosperm leaves.
Bada Mahadev, Panchmarhi, Madhya Pradesh

Perichaena minor (G. Lister) Hageslt., 1943 (Trichiaceae)

On dead bark of *Tamarindus indica*.
Sagar, Madhya Pradesh.

Perichaena quadrata Macbr., 1899 (Trichiaceae)

On wood.
Darjeeling, West Bengal.

Perichaena thindii Nanir, 1981 (Trichiaceae)

On dead wood.
Daulatabad, Aurangabad, Maharashtra.

Perichaena vermicularis (Schw.) Rost., 1876 (Trichiaceae)

On decomposing leaves of *Bignonia unguiscati*, decaying balls of *Gossypium arboretum*, stem galls of *Acacia leucophloea*.
Madras, Tamilnadu; Tocklai, Assam; Dehradun, Uttar Pradesh; New Delhi.

Physarella oblonga (Berk. & Curt.) Morg., 1896 (Physaraceae)

On decaying leaves of *Ficus* sp., on decaying wood and polypore, soil, bark of tea bushes, decaying bark of *Albizia stipulate*.
Pune Universtiy Campus, Pratapgad, Mahabaleshwar, Maharashtra; Darjeeling, West Bengal; Dehradun, Uttar Pradesh; Jorhat, Assam; Cuttack, Orissa.

Physarella oblonga f. *alba* Alexop., 1964 (Physaraceae)

On dead twigs, broken earthen pots.
Delhi.

Physarina echniospora Thind & Manocha, 1964 (Didymiaceae)

On dead wood, leaves.
Jamna Bridge, Uttar Pradesh.

Physarum aeneum (Lister) R.E. Fries., 1903 (Physaraceae)

On dead pinnae of small ferns.
Hooghly, Serampore, West Bengal.

Physarum auriscalpium Cooke, 1877 (Physaraceae)

On bark of *Rhododendron* sp.
Narkanda, Jakhu Hills, Simla, Himachal Pradesh; West Bengal.

Physarum bethelii Macbr., 1911 (Physaraceae)

On dead wood.
Darjeeling, West Bengal.

Physarum bitectum G. List., 1911 (Physaraceae)

On decaying leaves of *Agave* sp and other angiospermic plants.
Mussoorie, Uttar Pradesh; Tamil Nadu.

Physarum bivalve Pers., 1795 (Physaraceae)

On dead leaves of *Agave* sp; *Tectona grandis*, *Mangifera inidca*, *Ficus benghalensis*, on dead leaves of *Quercus incana* and other plants.
Sinhagad, Pune, Karjat, Maharashtra; Dhobi ghat, Mussoorie, Uttar Pradesh; Delhi; West Bengal.

Physarum bogoriense Racib., 1898 (Physaraceae)

On fallen leaves of *Ficus benghalensis*, on dead and living leaves and twigs of herbaceous plants, leaves and stems of *Setaria* sp.
Pune University Campus, Pune, Maharashtra; Mussoorie, Uttar Pradesh; Seramapore, West Bengal; Cinnamara, Tocklai, Assam; Himachal Pradesh; Karnataka.

Physarum brunneolum (Phill.) Masee, 1892 (Physaraceae)

On lichens, mosses and decaying wood.
Kalatop, Dalhousie, Himachal Pradesh.

Physarum carneum G. Lister & Sturgis, 1910 (Physaraceae)

On decaying twigs of *Acacia catechu*. Sagar, Madhya Pradesh.

Physarum cinereum (Batsch) Pers., 1794 (Physaraceae)

On blades of living grasses, decaying leaves of *Syzygium* sp., on dead leaves and twigs often on living herbaceous plants, rarely on wood.

Pune, Sinhadgad, Mahabaleshwar, Karjat, Maharashtra; Serampore, West Bengal; Mussoorie, Uttar Pradesh; Madras, Tamil Nadu; Amritsar, Punjab; Delhi; Karnataka.

Physarum citrinum Schum., 1803
(Physaraceae)

On dead leaves and angiosperm twigs.
Himachal Pradesh; Darjeeling, West Bengal; Mussoorie, Uttar Pradesh.

Physarum compressum Alb. & Schw., 1805
(Physaraceae)

On decaying leaves of *Agave* sp., *Euphorbia* sp., palm inflorescence, on bark of dead branches of *Erythrina indica*, living grass and vegetable debris, on dead bark of *Rhododendron arboreum*.

Mahabaleshwar, Sinhadgad, Pune, Kanakeshwar, Maharashtra; Madras, Tamil Nadu; Coorg, Karnataka; Simla, Himachal Pradesh; Uttar Pradesh; Assam.

Physarum conglomeratum Rost., 1874
(Physaraceae)

On dead leaves.
Landour, Mussoorie, Uttar Pradesh; Sikkim.

Physarum contextum (Pers.) Pers., 1801
(Physaraceae)

On dead leaves of *Mangifera indica*, *Grevillea robusta*, on dead leaves.
Lohagad, Pachgani, Maharashtra; Darjeeling, West Bengal.

Physarum crateriforme Petch, 1909
(Physaraceae)

On decaying leaves and bark of *Azadirachta indica*, *Wrightia tinctoria*.
Agricultural Horticultural Society, Garden, Tamil Nadu; Delhi; Mussoorie, Uttar Pradesh; Nazira, Assam.

Physarum decipiens Curt., 1848 (Physaraceae)

On dead leaves of *Tectona grandis*, *Ficus benghalensis*.
Pune University Campus, Pune, Maharashtra.

Physarum dictyosporum Martin, 1962
(Physaraceae)

On dead and decaying leaves of *Dalbergia sissoo*.
Chandigarh, Himachal Pradesh.

Physarum diderma Rostaf., 1874
(Physaraceae)

On decaying leaves of *Agave* sp. and bark, twigs and leaves of angiospermic plants.
Mussoorie, Uttar Pradesh; Delhi; Himachal Pradesh.

Physarum didermoides (Pers.) Rostaf., 1874
(Physaraceae)

On dead bark of tree, decaying leaves of *Agave* sp.
Dehradun, Adunca Bridge, Mussoorie, Uttar Pradesh; Coorg, Karnataka; Simla, Himachal Pradesh.

Physarum dudlianum Lakhanpal & Mukherji, 1981 (Physaraceae)

On dead twigs, leaves and fruits.
Delhi and Uttar Pradesh.

Physarum durjoylingum Lodhi, 1934
(Physaraceae)

On wood.
Darjeeling, West Bengal.

Physarum echinosporum Lister, 1899
(Physaraceae)

On dead leaves of *Tectona grandis* and *Syzygium* sp., on dead leaves of *Mimusops elengi*.

Sinhadgad, Lohagad, Mahabaleshwar, Pune, Maharashtra; Sibpur, Baliganj, West Bengal; Jorhat, Assam; Chennai, Tamil Nadu; Dehradun, Uttar Pradesh.

Physarum famintzini Rost., 1874
(Physaraceae)

On dead and decaying leaves.
Delhi.

Physarum flavidum (Peck.) Peck., 1879
(Physaraceae)

On logs of wood and mosses in coniferous forest.

Simla, Jakhu hills, Dalhousie, Himachal Pradesh.

Physarum gilkeyanum Gilbert, 1932 (Physaraceae)

On leaves of *Polyalthia longifolia*, as a contaminant in a petri dish containing *Eleusine coracana*, coffee litter, on bark of *Azadirachta indica*.

Pollibeta, Coorg, Karnataka; Delhi, Tamil Nadu.

Physarum globuliferum (Bull.) Pers, 1801 (Physaraceae)

On decaying logs of wood and decaying stumps.

Chamba – Sahu, Himachal Pradesh; Patni top, Jammu and Kashmir.

Physarum gyrosum Rost., 1875 (Physaraceae)

On sheathing leaf bases of *Cycas* sp. and leaving grasses, on soil, fallen flowers, dead twigs, on leaves of *Tagetes* sp.

Pune, Kankeshwar, Maharashtra; Cinnamara, Jorhat, Tocklai, Assam; Amritsar, Punjab; Madras, Tamilnadu.

Physarum javanicum Racib., 1898 (Physaraceae)

On decaying gymnospermous and angiospermous wood.

Delhi.

Physarum javanicum Racib. var. ***macrosporum*** Lakhanpal & Mukherji, 1981 (Physaraceae)

On wood, fruits of *Sesamum orientale*.

Delhi.

Physarum laevisporum Agnihotrudu, 1963 (Physaraceae)

On decaying leaves and twigs of *Camellia sinensis*.

Cinnamara, Assam; Hamirpur, Hareta, Himachal Pradesh.

Physarum lateritium (Berk. & Rav) Morgan, 1896 (Physaraceae)

On dead leaves and twigs, sometimes on dead roots.

Jamna Bridge, Mussoorie, Uttar Pradesh.

Physarum leucophaeum Fries. & Palmquist, 1818 (Physaraceae)

On dead leaves stem, decaying vegetable litter, animal refuse.

Serampore, West Bengal; Dehradun, Uttar Pradesh; Cinnamara, Tocklai, Assam.

Physarum leucopus Link, 1809 (Physaraceae)

On dead leaves of *Tectona grandis*, on dead leaves and bark.

Karjat, Maharashtra; Cinnamara, Tocklai, Assam; Darjeeling, West Bengal; Amritsar, Punjab; Coorg, Karnataka; Sagar, Madhya Pradesh; Kalka, Haryana.

Physarum listeri Macbr., 1934 (Physaraceae)

On wood, needles and twigs of *Picea smithiana*.

Simla, Himachal Pradesh; North Western India.

Physarum luteo-album Lister & G. Lister, 1904 (Physaraceae)

Host not mentioned.

North-Western India.

Physarum luteolum Peck, 1878 (Physaraceae)

On decaying leaves, on decaying leaves of coffee.

Pachgani, Maharashtra; Karadibetta Estate, Hassan, Karnataka.

Physarum megalosporum Macbr., 1922 (Physaraceae)

On dead leaves of *Ficus benghalensis*.

Pune, Maharashtra.

Physarum melleum (Berk. & Br.) Masee, 1892 (Physaraceae)

On dead leaves, living mosses, dead leaves of *Quercus incana*, living leaves of *Gerbera* sp.

Mussoorie, Uttar Pradesh; Dehradun, Uttar Pradesh; Calcutta, Darjeeling, West Bengal; Mandi, Hareta, Hamirpur, Himachal Pradesh; Chennai, Tamil Nadu; Guntur, Andhra Pradesh; Amritsar, Punjab.

Physarum mortonii Macbr., 1922 (Physaraceae)

On bark and living mosses.

Mahabaleshwar, Maharashtra.

Physarum mutabile (Rostaf.) G. List., 1911
(Physaraceae)

On dead leaves of *Ficus benghalensis*, decaying leaves of *Tectona grandis*, on dead leaves and pods of *Dalbergia sissoo*, dead leaves of *Saccharum* sp.

Pune, Lohagad, Sinhagad, Maharashtra; Dehradun, Uttar Pradesh; Chandigarh, Himachal Pradesh; Chennai, Tamil Nadu.

Physarum nicaraguense Macbr., 1893
(Physaraceae)

On decaying bark, on decaying leaf base of *Cycas circinalis*, dead leaves of *Agave* sp., dead wood and bark of tree.

Pune, Katraj, Maharashtra; Madras, Tamilnadu; Dehradun, Uttar Pradesh; Cuttack, Orissa; Cinnamara, Assam. Hamirpur, Mandi, Haretta, Himachal Pradesh.

Physarum notabile Macbr., 1922
(Physaraceae)

On decaying leaves of *Quercus incana*. Narkanda, Simla, Himachal Pradesh.

Physarum nucleatum Rex, 1891 (Physaraceae)
Physarum simile Rostaf., 1876

On dead and rotten wood stump, dead leaves of *Quercus incana*, leaf sheath of *Musa paradisiaca*, fronds of *Pteris* spp. Mussoorie, Uttar Pradesh; Cinnamara, Jorhat, Nazira, Assam; Sagar, Madhya Pradesh; Hamirpur, Mandi, Himachal Pradesh; Serampore, West Bengal.

Physarum nudum Macbr., 1932 (Physaraceae)

On leaves of Bamboo and *Ficus benghalensis*, on green grass leaves, leaves and inflorescence of grass.

Pune, Maharashtra; Thatchi, Mandi, Himachal Pradesh; Nandi hills, Mysore, Karnataka.

Physarum nutans Pers., 1975 (Physaraceae)

On leaves of *Cajanus cajan*, decaying cotton balls, roots of lawn grass, moss growing on bark of trees and dead twigs.

Chennai, Tamil Nadu; Tocklai, Assam; Darjeeling, West Bengal; Sagar, Madhya Pradesh; Dehradun, Uttar Pradesh; Simal, Dalhousie, Himachal Pradesh.

Physarum oblatum Macbr., 1922
(Physaraceae)

On leaves of *Agave americana* and *Syzygium* sp., on tea soil.

Purandar fort, Maharashtra; Tocklai, Assam; Serampore, Calcutta, West Bengal; Simla, Himachal Pradesh.

Physarum ovisporum G. Lister, 1921
(Physaraceae)

On fallen leaves of *Saccharum* sp. and *Bougainvillea* sp.

Delhi.

Physarum pachaganiensis Nanir & Tembhurne, 2011 (Physaraceae)

On living angiospermic leaves. Pachgani, Satara, Maharashtra.

Physarum panhalensis Nanir & Tembhurne, 2011 (Physaraceae)

Host not mentioned.

Panhala, Kolhapur, Maharashtra.

Physarum pedicellata (Gilbert) Dhillon, 1976
(Physaraceae)

On bark of *Aesculus indica*

Manali, Himachal Pradesh.

Physarum pezizoideum (Jungh.) Pav. & Lag., 1903
(Physaraceae)

on tree stems and fence posts.

Surajpur, Chandigarh; West Bengal.

Physarum psittacinum Ditmar, 1817
(Physaraceae)

On dead and decaying wood in a mixed forest.

Banikhet, Dalhousie, Himachal Pradesh.

Physarum pulcherrimum Berk & Curtis, 1873
(Physaraceae)

On dead stems of *Andropogon sorghum*.

Patna, Bihar.

Physarum pusillum (Berk. & Curt.) G. List., 1911 (Physaraceae)

On bark, decaying leaves of *Agave* sp, decaying cord and paper.

Pune University Campus, Pune, Maharashtra; Adunca Bridge, Mussoorie, Uttar Pradesh;

Nilgiris, Karnataka; Serampore, West Bengal; Delhi; Hamirpur, Himachal Pradesh. Amritsar, Punjab.

Physarum reniforme Lister, 1911 (Physaraceae)

On decaying leaves of *Musa paradisiaca*, decaying bark of *Albizia stipulata*, decaying wood and bark of trees, bushes infected with *Poria* sp.
Jorhat, Borbhetta, Tocklai, Assam.

Physarum retisporum Martin, Thind & Rehill, 1959 (Physaraceae)

On dead leaves, twigs and bark.
Mussoorie, Uttar Pradesh.

Physarum rigidum (Lister) Lister, 1925 (Physaraceae)

On rotting wood and on *Aporpium* sp., decaying wood of shade tree, bark of poles of *Casuarina equisetifolia*, dead leaves of *Ipomea* sp.
Mussoorie, Uttar Pradesh; Coorg, Karnataka; Madras, Tamil Nadu; Manali, Himachal Pradesh.

Physarum roseum Berk. & Br., 1875 (Physaraceae)

On decaying leaves of *Euphorbia* sp., on wood and bark, dead twig of *Enterolobium saman* and gymnospermous plants.
Kankeshwar, Maharashtra; Dehradun, Uttar Pradesh; Tocklai, Assam; Narkanda, Simla, Himachal Pradesh.

Physarum serpula Morg., 1896 (Physaraceae)

On fallen leaves of *Syzygium* sp, on grass, on decaying bark of *Hibiscus rosa-sinensis*, dead leaves of twigs of trees, decaying bamboo mat, dead twigs of *Ipomea* sp.
Pachgani, Mahabaleshwar, Maharashtra; Tocklai, Assam; Madras, Tamil Nadu.

Physarum sessile Brandza., 1921 (Physaraceae)

On dead leaves, decaying leaves of *Musa paradisiaca*, leaf sheath of Scitamineae, leaves and culms of a reed grass, on dead leaves of *Mangifera indica*.
Darjeeling, West Bengal; Tocklai, Jorhat,

Nagajanka, Assam; Hamirpur, Hareta, Himachal Pradesh.

Physarum sinuosum (Bull.) Wienm., 1829 (Physaraceae)

On dead leaves.
Mussoorie, Uttar Pradesh.

Physarum spinulosum Thind & Sehgal, 1964 (Physaraceae)

On bark and mosses.
Senchal forest, Darjeeling, West Bengal.

Physarum spumariodes Lakhanpal & Mukherji. 1979 (Physaraceae)

On decaying angiosperm leaves.
Hareta, Himachal Pradesh.

Physarum stellatum (Masse) G. W. Martin, 1947 (Physaraceae)

On leaves of *Agave americana*, on dead wood, mosses and oak stump.
Kanakeshwar, Mahabaleshwar, Maharashtra; the Park, Mussoorie, Uttar Pradesh; Simla, Himachal Pradesh.

Physarum straminipes A. Lister, 1898 (Physaraceae)

On dry petiole of *Phoenix* sp. in moist chamber culture.
Ahmadpur, Latur, Maharashtra.

Physarum sulphureum Alb. & Schw., 1805 (Physaraceae)

On dead decaying angiospermic leaves.
North Point, Darjeeling, West Bengal; Coorg, Polibetta, Karnataka, Mussoorie, Uttar Pradesh; Tocklai, Cinnamara, Jorhat, Assam.

Physarum sumatii Patil & Ranade 1975 (Physaraceae)

On dead and decaying leaves.
Kanakeshwar, Maharashtra.

Physarum superbum Hagelst., 1940 (Physaraceae)

On Phylloclades of *Euphorbia* sp., on dead leaves.
Kanakeshwar, Maharashtra; Darjeeling, West Bengal; Mussoorie, Uttar Pradesh.

Physarum tenerum Rex, 1890 (Physaraceae)
On dead leaves of *Tectona grandis*, *Syzygium* sp., *Mangifera indica*, *Ficus benghalensis*, on dead wood.

Katraj, Sinhagad, Khandala, Lohagad, Pune, Karjat, Amboli, Pachgani, Maharashtra; Mussoorie, Uttar Pradesh; Simla, Himachal Pradesh; Kodaikanal, Tamil Nadu.

Physarum thindii Patil & Ranade 1975 (Physaraceae)

On decaying leaves of *Memeceylon umbelatum*.

Mahabaleshwar, Maharashtra.

Physarum urnae Singh & Pusphavathy, 1979 (Physaraceae)

On living grass leaves.
Delhi.

Physarum variegatum Thind & Dhillon, 1967 (Physaraceae)

On decaying stump.
Darjeeling, West Bengal.

Physarum vernum Somm ex Fr., 1829 (Physaraceae)

On fallen leaves of *Tectona grandis* and *Syzygium* sp., on decaying plant material, dead leaves of *Agave* sp., living leaves of *Ipomea* sp., bark of dead branches.

Mahabaleshwar, Lohagad, Karjat, Pune, Maharashtra; Madras, Tamil Nadu; Mussoorie, Uttar Pradesh; Delhi; Coorg, Karnataka; Amritsar, Punjab; Mandi, Hareta, Hamirpur, Himachal Pradesh.

Physarum virescens Ditmar, 1817 (Physaraceae)

On dead leaves and twigs, cladodes of *Parkinsonia aculeata*.

Darjeeling, West Bengal; Chennai, Tamil Nadu.

Physarum viride (Bull.) Pers., 1795 (Physaraceae)

On wood, on rotten wooden stump.

Lohagad, Maharashtra; Kempty Falls, Mussoorie, Uttar Pradesh; Delhi, Benjar, Himachal Pradesh; Darjeeling, West Bengal.

Physarum viride var. *aurantium* (Bull) Lister, 1894 (Physaraceae)

On dead wood in Oak forest.

Chamba; Khijjiar, Dalhousie, Himachal Pradesh; Mussoorie, Uttar Pradesh.

Physarum viride var. *hinnuleum* G. Lister, 1924 (Physaraceae)

On decayed wood.

Tindharia, West Bengal; Uttar Pradesh.

Pleiomorpha belmontiana (Nann.-Brem.) Dhillon, 1978 (Liceaceae)

On bark of *Abies* sp.

Manali, Himachal Pradesh.

Pleiomorpha biforis (Morgan) Dhillon, 1980 (Liceaceae)

On bark of *Populus* sp.

Narkanda, Himachal Pradesh.

Pleiomorpha pedicellata (Gilbert) Dhillon, 1978 (Liceaceae)

On bark of *Aesculus indica*.

Manali, Himachal Pradesh.

Reticularia jurana Meylan, 1908 (Reticulariaceae)

On bark.

Manali, Himachal Pradesh.

Reticularia lycoperdon Bull., 1790 (Reticulariaceae)

On bark of *Pinus excelsa*, soil between tea bushes.

Dalhousie, Mandi, Himachal Pradesh; Cinnamara, Jorhat, Tocklai, Assam.

Reticularia splendens Morgan, 1893 (Reticulariaceae)

On bark.

Chandigarh, Himachal Pradesh.

Reticularia venulosa Berk. & Curt., 1868 (Reticulariaceae)

On dead wood.

Khandala, Bombay, Maharashtra.

Stemonitis axifera (Bull.) Macbr., 1889 (Stemonitaceae)

On wood, on dead wood, living green mosses, decaying tea frames, on decaying coniferous wood.

Mahabaleshwar, Maharashtra; Tindharia,

Darjeeling, West Bengal; Mussoorie, Uttar Pradesh; Nazira, Tocklai, Assam; Mandi, Simla, Narkanda, Himachal Pradesh.

Stemonitis confluens Cooke & Ellis, 1876 (Stemonitaceae)

On wood of dead stump.

Polibetta, Coorg, Karnataka; Chennai, Tamil Nadu.

Stemonitis farrensis Lakhanpal & Mukherji, 1977 (Stemonitaceae)

On decayed gymnosperm wood covered with mosses.

Narkanda, Simla, Himachal Pradesh.

Stemonitis flavogenita Jahn., 1904 (Stemonitaceae)

On dead rotting wood, dead archegoniosphere of *Marchantia* sp.

Cuttack, Orissa; Darjeeling, West Bengal; Thatchi, Mandi, Simla, Himachal Pradesh; Delhi University Campus, Delhi.

Stemonitis fusca Roth., 1787 (Stemonitaceae)

On decaying wood, on dead gymnosperm wood.

Mahabaleshwar, Kanakeshwar, Matheran, Maharashtra; Jorhat, Assam; Dalhousie, Narkanda, Hamirpur, Nainital, China Peak, Himachal Pradesh; Mussoorie, Uttar Pradesh; Coorg, Karnataka; Darjeeling, West Bengal; Cuttack, Orissa; Chennai, Tamil Nadu.

Stemonitis fusca Roth. var. *papillosa* Meylan., 1935 (Stemonitaceae)

On decaying wood.

Thatchi, Mandi, Himachal Pradesh.

Stemonitis graciliformis Nann.-Brem., K.G. Mukerji & R. Pasricha, 1984 (Stemonitaceae)

On herbaceous stem.

Sagar, Madhya Pradesh.

Stemonitis herbatica Peck, 1873 (Stemonitaceae)

On living grasses, decaying leaves, on sandy garden soil, stem of *Ipomea* sp., Maize leaf, fern fronds, living and dead angiospermic leaves.

Pune, Vavoshi, Maharashtra; Cinnamara, Nazira, Assam; Delhi, Chennai, Tamil Nadu; Dehradun, Uttar Pradesh; Hamirpur, Himachal Pradesh; Amritsar, Punjab; Darjeeling, Serampore, West Bengal.

Stemonitis inconspicua Nann.-Brem., 1966 (Stemonitaceae)

On decaying coniferous wood.

Thatchi, Mandi, Himachal Pradesh.

Stemonitis mussooriensis Martin, Thind & Sohi, 1957 (Stemonitaceae)

On decayed bark.

Jamna Bridge, Mussoorie, Uttar Pradesh.

Stemonitis nigrescens Rex, 1891 (Stemonitaceae)

On bark of decaying logs, decaying twigs, leaves and stem of grass, on decaying gymnospermous wood.

Fruit Research Station, Borliar, Tamil Nadu; Jorhat, Tocklai, Assam; Dalhousie, Simla, Himachal Pradesh; Pune, Maharashtra; Karnataka; Sagar, Madhya Pradesh.

Stemonitis pallida Wingate, 1899 (Stemonitaceae)

On dead wood, dead moist log.

Mussoorie, Dehradun, Uttar Pradesh; Coorg, Karnataka; Dalhousie, Himachal Pradesh.

Stemonitis smithii Macbr., 1893 (Stemonitaceae)

On rotten fire wood, stump of *Cryptomeria japonica*, on moist log, on mosses and bark.

Cuttack, Orissa; Darjeeling, West Bengal; Coorg, Karnataka; Simla, Himachal Pradesh; Assam.

Stemonitis splendens Rost., 1874 (Stemonitaceae)

On dead wood, decaying bark and leaves of *Mangifera indica*.

Cuttack, Orissa; Doiwala, Mussoorie, Uttar Pradesh; Delhi; Mandi, Dalhousie, Himachal Pradesh; Cinnamara, Jorhat, Tocklai, Assam; Coorg, Karnataka; Sagar, Madhya Pradesh; Darjeeling, West Bengal.

- Stemonitis travancorensis* Erady, 1953
(Stemonitaceae)
On *Cereus* sp.
Travancore, Kerala.
- Stemonitis uvifera* T. Macbr., 1922
(Stemonitaceae)
On dead wood, on tea pruning litter.
Dalhousie, Himachal Pradesh; Cinnamara,
Tocklai, Assam.
- Stemonitis virginiensis* Rex, 1891
(Stemonitaceae)
On decaying wood, decaying frames of tea
bushes.
Cinnamara, Jorhat, Tocklai, Assam.
- Stemonitis webberi* Rex, 1891 (Stemonitaceae)
On dead wood.
Bhillaru, Khad, Mussoorie, Uttar Pradesh;
Cinnamara, Tocklai, Assam; Kalka, Punjab;
Darjeeling, West Bengal; Kulu, Himachal
Pradesh.
- Stemonaria reticulospora* Nann-Brem., R.
Sharma & K.S. Thind, 1984 (Stemonitaceae)
On burnt stump of *Cryptomeria* sp.
West Bengal.
- Stemonitopsis hyperopta* (Meylan) Nann.-
Brem., 1975 (Stemonitaceae)
On decaying gymnosperm wood.
Himachal Pradesh; Uttar Pradesh.
- Stemonitopsis irregularis* (Rex) Nann.-Brem.,
1981 (Stemonitaceae)
On decayed conifer wood.
Simla, Himachal Pradesh; Mussoorie, Uttar
Pradesh.
- Stemonitopsis suksdorfii* (Ellis & Ev.) Nann.-
Brem., 1981 (Stemonitaceae)
On bark of *Murraya exotica*.
Coorg, Karnataka.
- Stemonitopsis typhoides* (Bull.) Nann - Brem.,
1981 (Stemonitaceae)
On decaying gymnosperm and angiosperm
wood.
Cuttack, Orissa; Jorhat, Assam; Dalhousie,
Mandi, Simla, Himachal Pradesh; Uttar
Pradesh; Darjeeling, West Bengal and
Southern India.
- Symphytocarpus herbaticus* Ing. & Nann.-
Brem., 1967
On petioles and fronds of fern.
Mandi, Hamirpur, Hareta, Himachal Pradesh.
- Trichia affinis* de Bary, 1869 (Trichiaceae)
On dead wood, bark and wood of a stump and
alive mosses growing on it.
Kotgarh, Simla hills, Himachal Pradesh;
Darjeeling, West Bengal; Coffee Research
Campus, Balehonor, Karnataka.
- Trichia botrytis* (J. F. Gmel.) Pers., 1794
(Trichiaceae)
On bark of tree and mosses growing on it, on
dead coniferous wood and living mosses.
Darjeeling, West Bengal; Dalhousie, Himachal
Pradesh.
- Trichia crateriforme* Martin, 1963
(Trichiaceae)
On decaying gymnosperm wood.
Dalhousie, Himachal Pradesh.
- Trichia drakii* Lodhi, year not given
(Trichiaceae)
On dead and decaying leaves.
Darjeeling, West Bengal.
- Trichia decipiens* (Pers.) Macbr., 1899
(Trichiaceae)
On dead and decaying wood.
Simla, Manali, Kulu, Nainital, Dalhousie,
Himachal Pradesh; Mussoorie, Uttar Pradesh;
Darjeeling, West Bengal.
- Trichia favoginea* (Batsch.) Pers., 1794
(Trichiaceae)
On decaying leaves of *Agave* sp., on rotten
wood, on dead gymnospermous wood, bark
and mosses.
Lingmala, Mahabaleshwar, Maharashtra; North
Western India; Mussoorie, Uttar Pradesh;
Darjeeling, West Bengal; Kumarain, Narkanda,
Kulu, Simla, Himachal Pradesh; Southern
India.
- Trichia floriformis* (Schw.) G. List., 1919

(Trichiaceae)
On leaves and woods, live mosses, on dead coniferous wood.

Dalhousie, Narkanda, Manali, Kulu, Himachal Pradesh; Darjeeling, West Bengal.

Trichia lutescens (Lister.) Lister, 1897
(Trichiaceae)

On dead decaying wood.

Mussoorie, Uttar Pradesh.

Trichia operculata Bruhl. & Sen-Gupta, 1927
(Trichiaceae)

On decaying leaves of palm petioles.

Baliganj, Calcutta, West Bengal.

Trichia persimilis P. Karst., 1868
(Trichiaceae)

On dead and decaying coniferous bark and wood.

Kotgarh, Simla Hills, Himachal Pradesh.

Trichia pusilla (Hedw.) Martin, 1949
(Trichiaceae)

On dead wood.

Darjeeling, West Bengal; Mussorie, Uttar Pradesh.

Trichia scabra Rostaf., 1875 (Trichiaceae)

On dead rotten gymnospermous wood.

The Park, Mussoorie, Uttar Pradesh; Thatchi, Mandi, Simla, Kulu, Narkanda, Himachal Pradesh.

Trichia subfusca Rex, 1890 (Trichiaceae)

On dead wood, on decaying gymnospermous wood.

Sarahan, Mahasu, Kulu, Manali, Himachal Pradesh.

Trichia subretisporum Lakhanpal & Mukerji, 1980 (Trichiaceae)

On decaying gymnospermous wood.

Mandi, Thatchi, Manali, Himachal Pradesh.

Trichia varia (Pers.) Pers., 1800 (Trichiaceae)

On rotten and decaying gymnospermous wood.

Bhimal, Dehradun, Mussoorie, Uttar Pradesh; Simla, Kulu, Narkanda, Himachal Pradesh.

Trichia verrucosa Berk., 1860 (Trichiaceae)

On decaying gymnospermous wood.

Narkanda, Simla, Dalhousie, Himachal Pradesh.

Tubifera ferruginosa (Batsch.) J.F. Gmel., 1792 (Reticulariaceae)

On dead wood, on dead stump of *Quercus incana*; on dead gymnospermous wood and conifers.

Kotgarh, Simla, Kulu, Narkanda, Himachal Pradesh; Mussoorie, Uttar Pradesh; Darjeeling, West Bengal.

Tubifera microsperma (Berk. & Curt.) Martin, 1947 (Reticulariaceae)

On dead decaying wood of *Quercus incana*; on dead stump of *Cocos nucifera*.

Mussoorie, Uttar Pradesh; Darjeeling, West Bengal; Chennai, Tamil Nadu.

Tubifera papillata Martin, Thind & Sohi, 1957 (Reticulariaceae)

On rotten wood.

Mussoorie, Uttar Pradesh; Simla, Himachal Pradesh.

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