

A Checklist of Wood Rotting Fungi (non-gilled Agaricomycotina) of Himachal Pradesh

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ABSTRACT

Three hundred fifty five species of wood rotting fungi (non-gilled Agaricomycotina) are being recorded from state of Himachal Pradesh. These belong to 37 families spreading over 133 genera. These are recorded from 8 districts (Chamba, Kangra, Kinnaur, Kullu, Shimla, Solan, Bilaspur, and Mandi) of the study area. District Bilaspur and Mandi of Himachal Pradesh have been surveyed for the first time.

Key Words: Wood rotting fungi, Agaricomycotina (non- gilled), Himachal Pradesh, North Western Himalayas.

INTRODUCTION

Wood rotting basidiomycetes include both gilled and non-gilled fungi. The non-gilled agaricomycotina includes members belonging to Polyporaceae and those belonging to Corticiaceae. These fungi degrade the wood chiefly by acting on cellulose and lignin through their enzyme system and have been classified as white rot or brown rot causing fungi. White rot fungi degrade lignin and cellulose both, leaving white residue and brown rot fungi which degrade only cellulose. White rot fungi account for 94% of the total known basidiomycetous fungi where as only 6% are brown rot fungi (Gilbertson, 1980). Brown rot fungi are able to more rapidly and selectively extract the cellulose from wood than white rot fungi. These are more often associated with conifer-dominated ecosystems and in the breakdown of conifer wood (Blemchttte, 1995). The state of Himachal Pradesh support both temperate and tropical both type of vegetation. The state of Himachal Pradesh have been floristically explored for wood rotting fungi by different workers: Fries (1821, 1823 , 1828a, 1828b & 1832) Thind & Chatrath (1957,1959), Thind *et.al.* (1969,1969a,1970), Bakshi (1966,1971), Thind & Rattan (1971), Rattan (1977), Dhingra (1985, 1997), Thind & Dhanda (1979, 1978a, 1980, 1980a,1980b), Ryverden & Johansen (1980), Dhingra & Sood (1992), Ryverden & Gilbertson (1993, 1994), Dhingra & Rani (1991, 1994), Dhingra & Singla (1993, 1997), Dhingra & Malka (1994), Roy (1996), Dhingra & Singh (2008, 2009), Dhingra *et.al.* (2009, 2009 a,

2010, 2010a, 2010b, 2010c), Prasher *et.al.* (2011, 2012), etc.

MATERIALS AND METHODS

The data provided in this communication is based on the examination of the collections made by us as well as collected by the previous workers and deposited in the Herbarium of Botany Department, Panjab University, Chandigarh (PAN), India. The observations are based on the fresh as well as dry specimens and those preserved in Formaldehyde, Alcohol and Water. Majority of the collections belonging to different species were critically examined macro and microscopically for different characters. However, the specimens of some collections were not available for examination by the authors; these have been mentioned on the basis of literature reports only. The fungi recorded in this paper are classified after Kirk *et. al.* (2008), Index Fungorum and Mycobank. Standard procedures were adopted to study the specimens after Prasher (1999).

The method of revival of the dried specimens and the different stains/reagents used are as follows: For microscopic study the section of dried fructifications were mounted in 3% KOH for measurements of various structures as basidiospores, basidia, cystidia, setae and stained with cotton blue(in lactic acid) for determining the cyanophilous reaction, melzer's reagent (for determining the amyloidity), 1% aqueous solution of congo red and Phloxine (to determine the presence or absence of clamps and for measuring the hymenial elements and hyphae), sulphobenzaldehyde (water 1.5 ml, pure sulphuric

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acid 5.0 ml and benzaldehyde 4.5 ml) for staining gloeocystidia after Slysh (1960). For each species the following data has been provided: a) Name of the genera with reference b) Name of the species with reference to the published report c) Distribution in Himachal Pradesh d) Substratum e) Reference to the published report from where full description can be obtained.

STUDY AREA

The Himachal Pradesh extends between $30^{\circ}22'40''$ – $33^{\circ}12'40''$ North along latitude and $75^{\circ}44'55''$ – $79^{\circ}04'20''$ East along longitude. The state has 12 districts, Chamba, Kinnaur, Kangra, Shimla, Kullu, Solan, Bilaspur, Mandi, Hamirpur, Una, Sirmour and Lahaul-spiti. The state shares common boundaries with Punjab in west, Uttarakhand in the South-East, and China to the East, Haryana to the South-East and Jammu & Kashmir to the North. The climate of Himachal Pradesh varies due to large variation in altitude (450-6500 meters). The

climate varies from hot and sub-humid tropical (450-900 meters) in the southern low tracts, warm and temperate (900-1800 meters) cool and temperate (1900-2400 meters) and cold glacial and alpine (2400-4800 meters) in the northern and eastern high elevated mountain ranges. The annual precipitation ranges from 1000-2000 mm.

The vegetation of H.P. is diverse and Champion and Seth (1968) classified the forest of Himachal Pradesh. These forests are, Tropical dry deciduous forest, Sub-tropical pine forests, Sub-tropical dry evergreen forests, Himalayan dry temperate forests, Himalayan moist temperate forests, Dry alpine scrubs, moist alpine scrubs, Sub-alpine forests. These forests mainly consists of *Ephedra* sp., *Quercus semicarpifolia*, *Quercus dilatata*, *Juniperus macropoda*, *Salix* sp., *Berberis*, *Murraya indica*, *Pyrus pashia*, *Abies spectabilis*, *Populus ciliate*, *Woodfordia furticosa*, *Albizia chinensis*, *Pinus wallichiana*, *Embllica officinalis*, *Rosa moschata*, *Indigofera pulchella* etc.

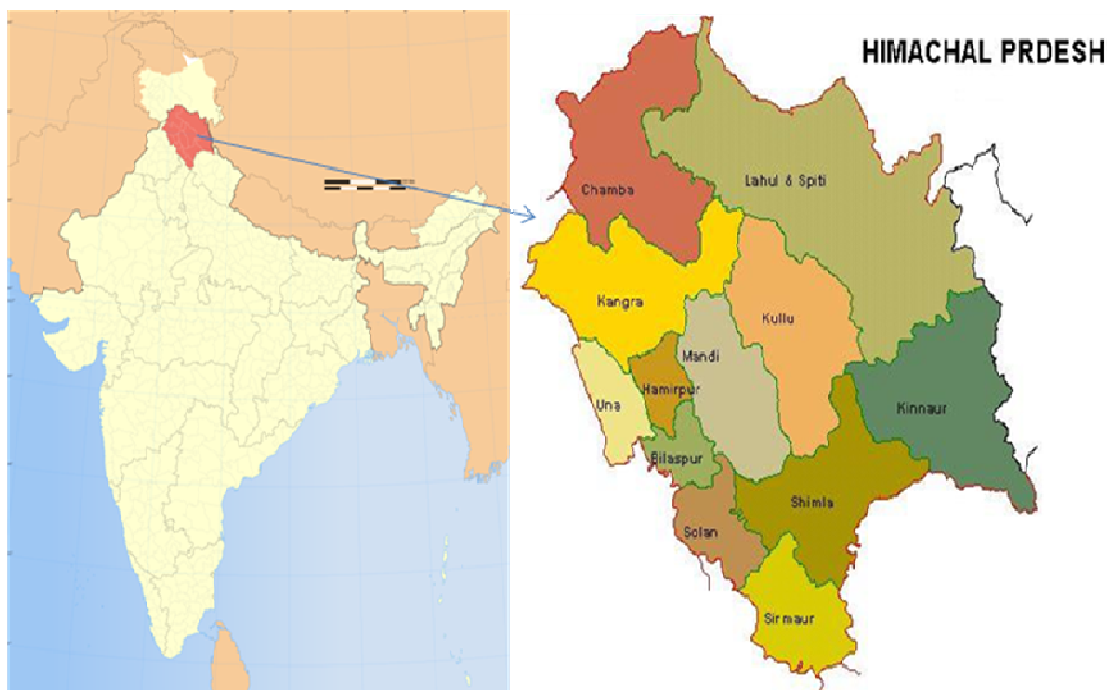


Fig 1- Map of India showing Himachal Pradesh

Order- Agaricales

Family- Amylocorticiaceae

Amylocorticium Pouzar, Česka' Mykol 13(1):1959.

Amylocorticium subsulphureum (P. Karst.)

Pouzar, Česka' Mykol. 13(1):11, 1959.

Distribution: H.P.: Solan-Dharampur, Tara Devi.

Substratum: On dead wood of *Pinus roxburghii*.

Amylocorticium indicum Thind & Rattan, Trans. Brit. Mycol. Soc. 59:125. 1972.

Distribution: H.P.: Kullu; Shimla; Dalhousie.

Substratum: On log of *Cedrus deodara*.

Ceraceomyces Julich, Willd., Beih. 7: 146. 1972.

Ceraceomyces bizonatus Dhingra & Singh, Mycotaxon 106: 399-401, 2008.

Distribution: H.P.: Kullu-Manali, Kothi; Shimla.

Substratum: Decaying log of *Cedrus deodara*.

Ceraceomyces cystidiatus (J. Erikss. & Hjortst. In Julich) Hjortst., Sv. Bot. Tidskr. 67: 105, 1973. = *Corticium violascens* (Fr.) var. *cystidiata* J. Erikss. & Hjortst. in Julich, Willd., Beih. 7: 165, 1972.

Distribution: H.P.: Shimla- Tara Devi.

Substratum: On wood stump.

Ceraceomyces fibuliger (Thind & Rattan) Rattan, The Resupinate Aphyllophorales of the North Western Himalayas, Biblthca. Mycol.60: 274(1977).

Distribution: H.P.: Shimla-Mahasu; Kullu.

Substratum: On bark of *Taxus baccata*, on wood of *Cedrus deodara* and *Picea smithiana*.

Ceraceomyces reidii (Thind & Rattan) Rattan, Basionym: *Corticium redii* Thind & Rattan, Trans. Brit. Mycol. Soc. 59: 125. 1972.

Distribution: H.P.: Kullu.

Substratum: On stump.

Ceraceomyces tessulatus (Cooke) Julich, Willd. Beih. 7: 154. 1972.

Distribution: H.P.: Kullu- Manikaran.

Substratum: On logs of *Abies pindrow*.

Family- Physalacriaceae

Cylindrobasidium Jülich Persoonia 8:1 p.72, 1974.

Cylindrobasidium evolvens (Fr.) Jülich, Persoonia 8(1): 72 1974.= *Basidiaradulum evolvens* (Fr.) Parm., Consp. Syst. Cort. p.112. 1968.

Distribution: H.P.: Kullu; Keylong.

Substratum: On fallen twigs.

Family- Pterulaceae

Aphanobasidium Jülich Persoonia 1979

Aphanobasidium subnitens (Bourdot & Galzin) Jülich, Persoonia 10(3): 326 (1979) = *Xenasma subnitens* (Bourd.& Galz.) Liberta, *Mycologia* 52: 910. 1960.

Distribution: H.P.: Shimla-Mahasu, Narkanda.

Substratum: Bark of *Rhododendron arboretum*.

Radulomyces Christ., Dansk. Bot. Ark. 19: 230. 1960.

Radulomyces molaris (Chaill. ex. Fr.) Chris. Dansk., Bot. Ark. 19: 232. 1960.= *Radulum molare* Chaill ex.Fr., Elench. 1828.

Distribution: H.P.: Kullu.

Substratum: On stump of *Pinus excelsa*.

Radulomyces confluens (Fr.) M.P. Christ., Dansk bot. Arkiv 19: 2 p.230, 1960= *Thelephora confluens* Fr., Syst. mycol. I p.447, 1821.

Distribution: Shimla-Narkanda, Tara Devi.

Substratum: On angiospermic twigs, forming.

Family-Stephanosporaceae

Cristinia Parmasto, Consp. Syst. Cort. p. 47. 1968.

Cristinia helvetica (Pers.) Parmasto, Consp. Syst. Cort. p.48. 1968. = *Hydnum helveticum* Pers., Mycol. Eur. 2: 184. 1825.

Distribution: H.P.: Kullu; Shimla.

Substratum: On log of *Abies pindrow*.

Family-Cyphellaceae

Chondrostereum Pouzar, Ceska Mycol. 13: 7. 1959.

Chondrostereum himalaicum (Thind & Rattan) Rattan Biblthca. Mycol.60, (1977).

Distribution: Kinnaur- Nichhar.

Substratum: fallen twigs under conifers.

Chondrostereum purpureum (Fr.) Pouz., Ceska Mykol. 13: 17. 1959.

Distribution: Chamba-Dalhousie, Kalatope; Shimla- Chail, Mahasu, Narkanda; Kullu- Rohtang.

Substratum: stump of *Cedrus deodara*, angiospermic trees, logs under mixed forest.

Order- Atheliales

Family- Atheliaceae

Amphinema P. Karst., Bidr. Känn. Finl. Nat. Folk 51: 228. 1892.

Amphinema byssoides (Fr.) Erikss., Symb. Bot. Upsal. 16: 112.1958.

Distribution: H.P.: Kullu; Shimla; Chamba-Dalhousie.

Substratum: On angiospermous logs, on slash of *Pinus excelsa*, *Cedrus deodara*, *Abies pindrow*, *Picea smithiana*.

Athelia Pers. Persoon C.H. Traité champ. comest. 57, 1818

Athelia decipiens (Höhn & Litsch.) J. Erikss., Sym. Bot. upsal. 16 (1): 86, 1958 = *Corticium decipense* Höhn. & Litsch., Sber. Akad. Wiss. Wien, Math.-naturw. Kl., 117(1): 1116, 1908.

Distribution: Shimla; Chamba-Dalhaousie.

Substratum: On *Cedrus deodara*

Athelia teutoburgensis (Brinkmann) Jülich, Persoonia 7(3): 383 (1973) = *Hyphoderma teutoburgense* (Brinkm.) Erikss., Symb. Bot. Upsal 16: 100, 1958.

Distribution: Kullu.

Substratum: On log of *Abies pindrow*.

Athelopsis Oberw. ex Parmasto Sydowia 19: 48, 1965 ex Parmasto. Consp. Syst. Cort. p. 41, 1968

Athelopsis lunata (Romell ex Bourdot & Galzin) Parmasto, Consp. System. Corticac.: 43, 1968 - *Grandinia lunata* Romell ex ourdot & Galzin, Hymenomyc. De France: 41, 1928.

Distribution: H.P.: Manali, Sundernagar.

Substratum: On decaying wood and rotten twigs.

Athelopsis parvispora Singh A.P., Dhingra & J. Kaur, Mycotaxon 113, 327-329, 2010.

Distribution: H.P.: Kullu.

Substratum: On stump of *Quercus incana*.

Athelopsis subinconspicua (Litsch.) Jülich, Persoonia 8(3): 292, 1975., - *Corticium subinconspicuum* Litsch., Glasn. Skopsk. Naucn. Drustva 18: 178, 1938.

Distribution: H.P.: Kullu-Manali, Kothi, Keylong.

Substratum: On Bark of *C. deodara* and decaying twigs.

Fibulomyces Jülich Willd. Beih. 7 p. 178, 1972.

Fibulomyces mutabilis (Bres.) Jülich, Willd. Beih. 7: 182, 1973.

Distribution: H.P.: Chamba-kalatope.

Substratum: On decaying gymnospermic log.

Hypochniciellum (Jülich) Hjortstam & Ryvar den Mycotaxon, 12(1): 176, 1980.

Hypochniciellum ovoideum (Jülich) Hjortstam & Ryvar den, Mycotaxon 12(1): 177 (1980) = *Leptosporomyces ovoideus* Jülich, Willdenowia, Beih. 7: 203 (1972)

Distribution: H.P.: Shimla-Narkanda, Mahasu.

Substratum: On stump under conifers

Leptosporomyces Jülich, Willd. Beih. 7: 192, 1972.

Leptosporomyces adnatus (Rehill & B.K. Bakshi) S.S. Rattan, Bibliotheca Mycol. 60: 270, 1977
Basionym: *Corticium adnatum* Rehill & Bakshi, Ind. For. Bull. (n.s.) 242: 10, 1965.

Distribution: Shimla-Narkanda; Kullu.

Substratum: On bark of *Taxus baccata*, *Abies pindrow*, *Cedrus deodara*, *Quercus dilatata*.

Leptosporomyces galzinii (Bourdot) Jülich, Willd. Beih. 7 p. 208, 1972. - *Corticium galzinii* Bourdot Rev. Sci. Bourb. Centr. Fr. 23(1): 11, 1910.

Distribution: Manali-Kothi.

Substratum: On decaying stump of *C. deodara*.

Leptosporomyces globosum S.S. Rattan Bibliotheca Mycol. 60: 269, 1977.

Distribution: Kullu- Pulga.

Substratum: On slash under conifers.

Leptosporomyces roseus Jülich, Willd. Beih. 7 p. 208, 1972.

Distribution: Chamba-Dalhaousie, Shimla.

Substratum: On a decaying coniferous log, stumps.

Order-Boletales

Family-Coniophoraceae

Coniophora Ddolle & Lamarck, Fl. France. Edu. 3(Paris)6: 34, 1815.

Coniophora arida (Fr.) Karst, Nat. Salsk Fauna et Fl. Fenn. Fenn. Forh 9: 370, 1868.

Distribution: H.P.: Dalhousie- Kalatope; Shimla-Mahasu; Kullu.

Substratum: Stump of *Abies pindrow* and bark of *Cedrus deodara*.

Coniophora cordensis S.S. Rattan Bibliotheca Mycologica 60: 78, 1977.

Distribution: H.P.: Shimla-Mahasu- Khadralla-Narkanda.

Substratum: Wood, bark and logs of *Abies pindrow*.

Coniophora fusispora (Cooke & Ell.) Cooke, in Sacc. Syll. Fung. 6, p. 650, 1889.

Distribution: H.P.: Shimla-Chaupal.

Substratum: On decaying angiospermic log, on decaying gymnospermic log.

Coniophora olivacea (Fr.) Karst., Hattsvampar 2: 162, 1889 = *Hypochnus olivaceus* Fr., Observ. Mycol. 2: 282, 1818.

Distribution: H.P.: Shimla- Chaupal; Solan.

Substratum: On decaying gymnospermic wood.

Coniophora puteana (Schum.) Karst., Not. Sällsk. Fauna et Fl. Fenn. Forh. II 6(6) : 370 (1869).

Distribution: H.P.: Dalhousie- Lakkarmandi; Mahasu- Narkanda, Kullu, Kothi to Manali.

Substratum: Coniferous wooden poles and stumps of *Abies pindrow*, logs of *Pinus roxburghii*, *Cedrus deodara*.

Family- Hygrophoropsidaceae

Leucogyrophana Pouzar Z. Ceska Mykol. 12(1) 32 (1958)

Leucogyrophana mollusca (Fr) Pouzar, Čerká Mykol. 12: 33, 1958.-*Merulius molluscus* Fr., Syst. Mycol. 1: 329, 1821.

Distribution: H.P.: Shimla, Tara Devi.

Substratum: Cut stump of *P.roxburghii*.

Leucogyrophana olivascens (Berk. & M.A. Curtis) Ginns & Weresub, Mem. N. Y. bot. Gdn 28: 96 1976.

Distribution: H.P.: Kullu- Jaggat suk; Solan

Substratum: Wood under mixed forest.

Family Serpulaceae

Serpula (Pers.) Gray, Nat. Arrang. Brit. Pl 1: 637. 1821.

Serpula himantoides (Fr.) P. Karst., Meddn. Soc. Fauna Flora fenn, 11: 21, 1885.

Distribution: H.P.: Dalhousie- Lakkarmandi; Shimla-Mahasu, Narkanda; Kullu.

Substratum: Coniferous wooden poles and stumps of *Abies pindrow*.

Serpula lachrymans Gray, Nat. Arrang. Brit. Pl.1: 637. 1821.

Distribution: H.P.: Chamba-Dalhousie, Lakkarmandi; Shimla- Mahasu, Narkanda.

Substratum: On log of *Abies pindrow*.

Serpula mollusca (Fr.) Donk. Persoonia 3: 209. 1964.

Distribution: H.P.: Kullu; Chamba- Dalhousie, Lakkarmandi; Shimla-Mahasu, Narkanda.

Substratum: Coniferous wooden poles and stumps of *Abies pindrow*.

Order- Cantharellales

Family -Botrybasidiaceae

Botrybasidium Donk, Medded.Nedl. Mycol. Ver. 18-20: 116, 1931.

Botrybasidium vagum (Berk. & Curtis) D. P. Rogers, Univ. Iowa Stud. Nat. Hist. 17(1): 17, 1935.

Distribution: Chamba-Dalhausie, Khajjiar.

Substratum: On logs of *C. deodara*.

Botrybasidium candicans Erikss., Sven. Bot. Tidskr. 52: 6.1958.

Distribution: H.P.: Shimla; Kangra- Dharamshala; Kinnaur.

Substratum: On angiospermic twig.

Botrybasidium isabellinus (Fr.) J. Eriksson, Sv. Bot. tidskr. 52: 2, 1958. – *Thelephora isabellinus* Fr., Epicr. p. 544, 1838.

Distribution: Chamba; Kullu; Shimla.

Substratum: On a gymnospermic wood.

Botrybasidium obtusisporum J. Erikss., Symb. Bot. Upsal. 16: 57, 1958.

Distribution: H.P.: Shimla-Glen.

Substratum: On burnt stump of *P. Roxburghii*.

Botrybasidium subcornoatum (Hoehn. & Litsch.) Donk, Medd. Nederl. Mycol.Ver. 18-20: 117. 1931=*Corticium subcornatum* Hoehn. & Litsch., Sitz. Kais. Akad. Wiss. Wien, Math.-Nat. Klasse 116: 822. 1907.

Distribution: H.P.: Shimla.

Substratum: On angiospermic twigs.

Botrybasidium subbotryosum S.S. Rattan, Bibliotheca Mycol. 60: 210, 1977.

Distribution: H.P.: Kullu- Pulga; Shimla-Mahasu, Hatoo, Narkanda.

Substratum: On angiospermic twig.

Botryohypochnus Donk, Medd. Nederl. Mycol. Ver. 18-20: 118. 1931.

Botryohypochnus isabellinus (Fr.) Erikss. Sven. Bot. Tidskr. 52:2. 1958. = *Thelephora isabellina* Fr., Epicr. P. 544. 1838.

Distribution: H.P.: Chamba- Khijjiar; Shimla-Mahasu, Narkanda, Khadralla; Kullu- Jaggat Sukh;

Substratum: On angiospermic twig.

Family-Ceratobasidiaceae

Ceratobasidium D. P. Rogers, Univ. Iowa Stud. Nat. Hist. 17 (5): 4, 1935.

Ceratobasidium obscurum D. P. Rogers, Univ. Iowa Stud. Nat. Hist. 17: 6, 1935.

Distribution: Chamba-Dalhausie, Bilaspur, Manikaran.

Substratum: On decaying gymnospermous logs & twigs.

Scotomyces Jülich, Persoonia,10(1):139, 1978.

Scotomyces subviolaceus (Peck) Jülich, Persoonia 10(3): 334 (1979)= *Ceratobasidium subatratum* S.S. Rattan, Biblioth. Mycol. 60: 203 (1977).

Distribution: H.P: Kullu-Manali.

Substratum: On stump under conifers.

Family-Clavulinaceae

Clavulicium Boid., Bull. Soc. d'Hist. Nat. Toul. 92: 280, 1957.

Clavulicium hallenbergii Avneet P. Singh, J. Kaur & Dhingra, *Mycotaxon*. 120: 353, 2012.

Distribution: Chamba.

Substratum: On trunk of *P. Wallichiana*.

Family-Hydniaceae

Paullicorticium J. Eriksson Symb. bot. Upsal. 16: 66, 1958.

Paullicorticium delicatissimum (Jacks.) Libert, Brittonia 14: 222, 1962.- *Corticium delicatissimum* Jacks., *can. Jour. Bot.* 28: 722, 1950.

Distribution: H.P.: Shimla-Glen, Tara Devi.

Substratum: On decaying log of *P. Roxburghii*.

Sistotrema Fries., E.M. Systema Mycol. 1: 426, 1826.

Sistotrema binucleosporum Hallenb., Mycotaxon 21: 409, 1984.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: Under surface of gymnospermic log.

Sistotrema brinkmannii (Bres.) John Erikss., K Fysiogr. Sallsk. Lund Forh. 18 (8): 17, 1948-
Odontia brinkmannii Bres., Ann. Mycol. 1: 88, 1903.

Distribution: H.P.: Shimla.

Substratum: On bark of *Cedrus deodara*.

Sistotrema lachrymisporum S.S. Rattan, Biblth. Mycol. 60, 1970.

Distribution: H.P.: Kullu.

Substratum: On coniferous wood

Sistotrema porulosum Hallenb., Mycotaxon 21: 407, 1984.

Distribution: H.P.: Chamba-Banikhet.

Substratum: On decaying angiospermic stump.

Sistotrema sernanderi (Litsch.) Donk, Fungus 26: 4, 1956.-*Gloeocystidium sernanderi* Litsch., Sv. Bot. Tidskr. 25: 437, 1931.

Distribution: H.P.: Shimla.

Substratum: Decaying gymnospermic wood.

Sistotrema subtrigonospermum Rogers, Univ. Iowa Stud. Nat. Hist. 17: 22, 1935.

Distribution: H.P.: Kullu- Shoja; Shimla-Narkanda; Chamba-Dalhousie.

Substratum: On log of *Cedrus deodara* and *Pinus roxburghii*.

Order-Corticales

Family-Corticaceae

Corticium Pers., Neues Mag. Bot. 1: 111, 1794.

Corticium confine Bourdot & Galzin, Bull. Soc. Mycol. Fr. 27(2): 260 (1911)=*Trechispora confinis* (Bourd. & Galz.) Libert Taxon 15: 318. 1966.

Distribution: Shimla-Khadrala, Mahasu.

Substratum: On stump of *Abies pindrow*.

Dendrothele Hohn. & Litsch., Sber. Akad. Wiss. Wien, Math.-naturw. Ki., 116: 819, 1907.

Dendrothele alliacea (Quél.) P.A. Lemke, *Persoonia* 3: 366, 1965. = *Corticium alliaceum* Quél., *Compt. Rend. Assoc. Franc. Avancem. Sci.* 12: 505, 1884.

Distribution: Shimla- Glen, Chail, Manali..

Substratum: Stump of gymnospermic branches of *C. deodara*.

Dendrothele incrustans (P.A. Lemke) P.A. Lemke, *Persoonia* 3(3): 366, 1965. = *Aleurocorticium incrustans* P.A. Lemke, *Can J. Bot.* 42: 739, 1964.

Distribution: H.P.: Shimla; Chamba-Dalhousie, Mandi-Sundernagar.

Substratum: On stump under angiosperms.

Dendrothele seriata (Berk. & M.A. Curtis) P.A. Lemke, *Persoonia* 3: 367, 1965.-*Stereum seriata* Berk. & M.A. Curtis, *J. Linn. Soc., Bot.* 10: 332, 1868.

Distribution: H.P.: Chamba-Dalhousie, Kalatop, Manali, Kothi.

Substratum: Decaying wood.

Galzinia Bourdot, *Compt. Rend. Assoc. France. Avanc. Sc.* 45: 577. 1922.

Galzinia ellipsospora S. S. Rattan Biblth. Mycol. 60: 212, 1970.

Distribution: H.P: Shimla.

Substratum: On stump under angiosperms.

Galzinia incrustans (Hohn. & Litsch.) Parmasto, Eesti NSV Tead. Akad. Toim., *Biol.* 14: 225, 1965.-
Corticium incrustans Hohn. & Litsch., Sber. Akad. Wiss. Wien, Math.-naturw. KI., *Abt.* 115: 1602.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On the bark of *C. deodara*.

Laeticorticium Donk, Fungus 26: 16, 1956.

Laeticorticium expallens (Bres.) J. Erikss. & Hjortst., *Cortic. N. Eur.* 6: 1069, 1981.- *Corticium expallens* Bres., *Annl. mycol.* 6: 43, 1908.

Distribution: H.P: Shimla-Tara Devi, Manali.

Substratum: Fallen twigs, Cut stumps.

Licrostroma P.A. Lemke, *Can.J. Bot.* 42: 762, 1964.

Licrostroma subgiganteum (Berk.) Lemke, *Can. J. Bot.* 42: 763, 1964. - *Corticium subgiganteum* Berk., *Grevillea* 2: 3, 1873.

Distribution: Shimla, Kufri.

Substratum: Dead wood.

Order-Gloeophyllales

Family-Gloeophyllaceae

Gloeophyllum Karst. Bindr. Kann. Fiinl. Nat. Folk 37:79, 1882.

Gloeophyllum carbonarium (Berk. et Curt.) Ginns, Mycotaxon 22: 559, 1984.

Distribution: H.P.: Kullu; Shimla.

Substratum: On decaying angiospermic log

Gloeophyllum sepiarium (Wulfen) P. Karst. [as 'Gleophyllum'], Bidr. Känn. Finl. Nat. Folk 37: 79 1882.

Distribution: H.P.: Shimla; Chamba-Dalhousie; Mandi.

Substratum: On decaying log.

Gloeophyllum striatum (Sw. ex Fr.) Murr., Torr. Bot. Cl. 32: 370, 1905.

Distribution: H.P.: Chamba-Dalhousie; Shimla.

Substratum: On decaying *C. deodara*, *Pinus longifolia*, *Shorea robusta* log.

Gloeophyllum subferrugineum (Berk.) Bond. & Sing. Annals Mycol. 39: 64, 1941.

Distribution: H.P.: Chamba-Dalhousie; Kullu; Shimla.

Substratum: On decaying *Pinus roxburghii* log

Veluticeps (Cooke) Pat., Bull. Soc. mycol. Fr. 10: 78, 1894.

Veluticeps abietina (Pers.) Hjortstam & Telleia, Mycotaxon 37: 54, 1990.- *Thelephora abietina* Pers., Syn. Meth. Fung. 2: 573, 1801.

Distribution: Palampur, Sundernagar

Substratum: On decaying wooden log.

Order-Gomphales

Family-Lentariaceae

Kavinia Pilat, Stud. Bot. Cechslov. 1: 3.1938.

Kavinia alboviridis (Morgan) Gilb. & Budington, J. Ariz. Acad. Sci. 6(2): 95 1970.

Distribution: H.P.: Kulu; Shimla.

Substratum: On coniferous log.

Order-Hymenochaetales

Family- Hymenochaetaceae

Aurificaria D.A. Reid Kew Bull 17(2):278, (1963)

Aurificaria indica (Masse) D.A. Reid, Kew Bull. 17(2): 279, 1963.

Distribution: H.P.: Kulu; Shimla.

Substratum: On living deciduous tree.

Coltricia S.F. Gray A nat.arrang. Of Br. pl. 1. 644, 1821.

Coltricia cinnamomea (Pers.) Murr., Bull. Torrey Bot. Club 31: 343, 1904.

Distribution: H.P.: Chamba-Dalhousie; Kullu.

Substratum: At the base of decaying stump.

Cycloporus Murrill W.A. ,Bull. Torrey Bot. Club 31(8):423, 1904.

Cycloporus greenei (Berk.) Murr., Bull. Torrey bot. Club 31: 423, 1904.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On stump of *Pinus excelsa*.

Fuscoporia Murrill W.A. N. Amer. Flora 9(1):3, 1907.

Fuscoporia contigua (Pers.) G. Cunn., Bull. N.Z. Dept. Sci. Industr. Res., Pl. Dis. Div. 73: 4 (1948)=*Phellinus contiguus* (Pers. ex Fr.) Bourd. & Galz. Hym. France p. 624. 1928.

Distribution: H.P.: Chamba-Dalhousie, Khajjiar; Kangra- Dharamsala, Yol camp, Rasan.

Substratum: Stumps under mixed forest, Cut stump of *Pinus*.

Fuscoporia ferruginosa (Schrad.) Murrill [as 'ferruginosus'], N. Amer. Fl. (New York) 9(1): 5 (1907) =*Phellinus ferruginosus* (Schrad. exFr.) Bourd. & Galz., Hym. Fr.,P. 625, 1928.

Distribution: H.P.: Kullu- Kasol.

Substratum: Beam of Deodar.

Hymenochaete Lev., Ann. Sci. Nat. Bot. 5: 150. 1846.

Hymenochaete leonina Berk. & Curt., J. Linn. Soc. Bot. 10: 334. 1868.

Distribution: H.P: Shimla; Chamba-Dalhousie.

Substratum: On *Cedrus* log.

Hymenochaete mougeotii (Fr.) Cooke Grevillea 8: 147. 1880.=*Thelephora mougeotii* Fr., Elenchnus p. 188. 1828.

Distribution: H.P.: Shimla-Narkanda; Chamba-Dalhousie.

Substratum: On twigs of *Quercus*.

Hymenochaete luteobadia (Fr.) Hoehn. & Listch., Wien. Sitz. 116: 754. 1907.= *Thelephora luteoalba* Fr., Linnea 5: 526. 1830.

Distribution: H.P.: Kullu; Chamba- Dalhousie.

Substratum: On twigs under mixed forests.

Hymenochaete semistuposa Petch; Ann. Roy. Bot. Gdns. Perad. 9: 278. 1925.

Distribution: H.P.: Shimla-Narkanda; Chamba.

Substratum: On twigs of *Berberis* sp & *Cedrus*.

Inonotus P. Karst., Medd. Soc. Fauna Fl. Fenn. 5: 39, 1879.

Inonotus cuticularis (Bull.) P. Karst., Meddn Soc. Fauna Flora fenn. 5: 39 (1879)= *Polyporus cuticularis* (Bull.) Fr., Syst. mycol. (Lundae) 1: 363 (1821).

Distribution: H.P.: Chamba-Dalhousie; Kangra-Dharamshala; Kullu; Shimla; Solan- Kasole.

Substratum: On living trees and stump of *Quercus incana*.

Inonotus nothofagi G.H.Cunn., Bull. N.Z.Dep. Scient. Ind. Res. 78:1, 1948.

Distribution: H.P.: Shimla-Bashahr division; Kullu.

Substratum: Dead tree of *Quercus semecarpifolia*.

Onnia P. Karst., Bidr. Kann. Finl. Nat. Folk 48:326, 1889

Onnia circinata (Fr.) P. Karst., Bidr. Känn. Finl. Nat. Folk 48: 326 (1889).

Distribution: H.P.: Kullu; Shimla; Chamba-Dalhousie.

Substratum: On rotten stump, on needles of *Cedrus deodara*

Onnia tomentosa (Fr.) P. Karst., Revue mycol., Toulouse 11(no. 47): 205 (1889)=*Coltricia tomentose* (Fr.) Murr. Bull. Torrey Bot. Club 31: 346, 1904.

Distribution: H.P.: Kullu; Shimla.

Substratum: At the base of angiospermic stump, on the exposed roots, at the base of decaying stump.

Phellinus Quel., *Enchir. Fung.* (Paris): 172 (1886)

Phellinus caryophylli (Racib.) Bres., Ann. Mycol., 10, 498, 1912= *Fomes caryophylli* (Racib.) Bres., Annls mycol. 10(5): 498 (1912).

Distribution: H.P.: Chamba-Dalhousie, Panjpulla, Thali; Shimla- The Glen; Kullu- Pulga, Hidamba Devi; Kangra-Dharamsala, Forsyth ganj; Mandi.

Substratum: stumps and fallen twigs under angiospermic forest and mixed forest, burnt logs, dead wood, roots of *Rhododendron*, *Quercus semecarpifolia*, base and stumps of *Quercus incana*, *Cedrus deodara*, *Juglans regia*.

Phellinus ferruginosus (Schrad.) Pat., *Essai Hymen.* : 97, 1900

Distribution: H.P.: Kullu.

Substratum: On gymnospermic log.

Phellinus gilvus (Schw.) Pat., *Essai tax. Hym.*, p. 97, 1900= *Phellinus scruposus*(Fr.) G.H.Cunn., Bull. N.Z. Dep. Scient. Ind. Res. 164: 230, 1965.

Distribution: H.P: Chamba- Thali, Dalhousie, Jandrighat springs; Kangra-Dharamsala- Dadh, Sidhbari; Shimla- Narkanda; Kullu-Manali- Gojra; Mandi.

Substratum: On decaying fencing log.

Phellinus grenadensis (Murr.) Ryv., Norw. J. Bot. 19: 234, 1972.

Distribution: H.P.: Kangra-Dharamshala.

Substratum: On cut stump under angiospermic forest.

Phellinus igniarius (L.) Quél., Quél. Ench. Fung. : 172 (1886)

Distribution: H.P.: Mandi-Bijni.

Substratum: On fallen log.

Phellinus nilgheriensis (Mont.) G.H.Cunn., Bull. N.Z. Dep. Scient. Ind. Res. 164: 226, 1965.

Distribution: H.P.: Shimla- Baghi, Narkanda; Chamba- Dalhousie- Baloon, Khajjiar.

Substratum: Bark of living angiosperms, *Juglans regia*, decaying log of *Pinus excelsa*, stumps of *Taxus baccata* and angiospermic stumps.

Phellinus sanfordii (Lloyd) Ryvarde, Norw. J. Bot. 19: 235 (1972)= *Fomes sanfordii* Lloyd, Mycol. Writ. 4 (Synopsis of the Genus Fomes): 258 (1915).

Distribution: H.P.: Kullu-Manali.

Substratum: On living deciduous tree.

Phellinus xeranticus (Berk.) Pegler Kew Bull. 21: 44, 1967= *Polyporus xeranticus* Berk. *Hook. J. Bot.* 6 : 161, 1854.

Distribution: H.P.: Chamba-Dalhousie; Shimla.

Substratum: On fallen log.

Phylloporia Murrill Torrey 4:141(1904).

Phylloporia pectinata (Klotzsch) Ryvarde, Syn. Fung. (Oslo) 5: 196 (1991)= *Fomes pectinatus* (Klotzsch) Gillet, Grevillea 14(no. 69): 20 (1885)

Distribution: H.P.: Kangra-Dharamsala, Siwalik hills.

Substratum: Cut stumps and tree of *Murraya exotica*, On living deciduous tree.

Phylloporia ribis (Schumach.) Ryvarde, Polyp. N. Eur. (Oslo) 2: 371 (1978)=*Phellinus ribis* (Schum. exFr.) Ques., Ench. Fung., P. 173, 1886.

Distribution: H.P.: Kullu- pulga; Kangra-Dharamsala, Mcleod ganj, Yol camp, Sidhbari; Shimla- Chadwick falls; Chamba-Dalhousie, Khajjiar.

Substratum: living angiospermic trees, stumps of *Quercus incana*, *Cedrus deodara*, Buried wood and cut stumps of *Pyrus patio*.

Phylloporia spathulata (Hook.) Ryvarden, Syn. Fung. (Oslo) 5: 196 (1991)

Distribution: H.P.: Kullu- Manali.

Substratum: On angiospermic stump.

Tubulicrinis Donk, Fungus 26: 13. 1956.

Tubulicrinis chaetophorus (Hoehn.) Donk, Fungus 26: 14. 1956.

Distribution: H.P.: Chamba- Khijjiar, Dalhousie, Kalatope; Shimla- Chail.

Substratum: stumps of *Cedrus deodara* and *Abies pindrow*, stumps under conifers.

Tubulicrinis hamatus (H.S. Jacks.) Donk [as 'hamata'], Fungus, Wageningen 26(1-4): 14 (1956)

Distribution: H.P.: Chamba-Kalatope.

Substratum: Decaying gymnospermic stump.

Tubulicrinis strangulates Larss. & Hjortst., Mycotaxon 26: 438, 1986.

Distribution: H.P.: Chamba-Kalatope; Shimla.

Substratum: Decaying stump.

Tubulicrinis subulatus (Bourd. & Galzin) Donk [as 'subulata'], Fungus, Wageningen 26: 14 (1956)

Distribution: H.P.: Kullu- Rohtang.

Substratum: stumps under a mixed forest.

Family-Rickenellaceae

Peniophorella P. Karst. Bidr. Kann.Finl. Nat.Folk. 48, 1889.

Peniophorella praetermissa (P. Karst.) K.H. Larss., Mycol. Res. 111(2): 192 (2007)=*Hyphoderma praetermissum* (Karst.) J.Eriksson & Strid, in J.Eriksson and Ryv., Cort. N. Europe 3 p.505, 1975

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On decaying angiospermic and gymnospermic logs and branches.

Peniophorella pubera (Fr.) P. Karst., Bidr. Känn. Finl. Nat. Folk 48: 427 (1889)=*Hyphoderma puberum* (Fr.) Wallr., Fl. crypt. Germ. p.576, 1833.

Distribution: H.P.: Chamba-Dalhousie, Jandrigat; Shimla- Narkanda, Mahasu, The Glen, Kalatop.

Substratum: On decaying stump of *C. japonica*, On a decaying *Pinus* log.

Peniophorella tsugae (Burt) K.H. Larss., Mycol. Res. 111(2): 192 (2007) =*Hyphoderma tsugae* (Burt) J.Eriksson & Strid, in J.Eriksson and Ryv., Cort. N. Europe 3 p.541, 1975. =*Corticium tsugae* Burt, Ann. Miss. Bot. Gard. 13 p.276, 1926).

Distribution: H.P.: Chamba- Dalhousie.

Substratum: On a decayed stump.

Resinicium Parm., Consp. Syst. Cort. p.97. 1968.

Resinicium bicolor (Fr.) Parm., Consp. Syst. Cort. p. 98. 1968. = *Hydnum bicolor* Fr., Syst. Mycol. 1: 417. 1821.

Distribution: H.P.: Kullu; Shimla; Chamba.

Substratum: On angiospermic log, on log of *Abies pindrow* & *Cedrus deodara* and *Taxus baccata*.

Resinicium friabile Hjortstam & Melo, Mycotaxon 65: 324, 1997.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On decayin stump of *C. deodara*.

Sidera Miettinen & K.H. Larss. Mycol. Progress 10(2):136.2011.

Sidera lenis (P. Karst.) Miettinen, in Miettinen & Larsson, Mycol. Progr. 10(2): 136 (2011)=*Antrodia lenis* (P. Karst.) Ryvarden, Norw. JI Bot. 20: 8 1973.

Distribution: H.P.: Shimla-Khadrala.

Substratum: On under surface of burnt *Pinus* log.

Family Schizoporaceae

Alutaceodontia (Parmasto) Hjortstam & Ryvarden Syn. Fung. 15:7,2002.

Alutaceodontia alutacea (Fr.) Hjortstam & Ryvarden, Syn. Fung. (Oslo) 15: 8 (2002)=*Hyphodontia alutacea* (Fr.) J.Eriksson, Symb. bot. Ups. 16: 1 p.104, 1958.

Distribution: Manali.

Substratum: On a decaying gymnospermic log.

Basidioradulum Nobles, Mycologia 59: 192. 1967. Emend. Parm., Consp. Syst. Cort. p. 112. 1968.

Basidioradulum tuberculatum (Berk. & M.A. Curtis) Hjortstam, Mycotaxon 54: 183 (1995)=*Phlebia albida* Post. Ex Fr. emend. Bres., Ann. Mycol. 1: 90. 1903.

Distribution: H.P.: Shimla-Mahasu.

Substratum: On log of *Rhododendron arboretum*, *Quercus semicarpifolia*, *Picea smithiana*

Hyphodontia Erikss., Symb. Bot. upsal. 16: 103. 1958.

Hyphodontia abieticola (Bourd. & Galzin) J. Erikss., Symb. bot. upsal. 16(1): 84, 1958=*Odontia barba-jovis subsp. abieticola* Bourdot & Galzin, *Hyménomyc. De France*: 426, 1928.

Distribution: Manali, reserve forests.

Substratum: On stump of *Cedrus deodara*.

Hyphodontia alienata (S. Lundell) J. Erikss., Symb. Bot. Upsal. 16: 104, 1958. - *Peniophora alienata* S. Lundell, *Fungi Exsiccati Suecici* 21-22: 28, 1941.

Distribution: Manali-reserve forests, Shimla.

Substratum: twigs and stump of *Cedrus deodara*.

Hyphodontia altaica Parm. Consp. Syst. Cort. p. 211. 1968.

Distribution: H.P.: Shimla-Narkanda, Mahasu; Kullu.

Substratum: On bark of *Abies pindrow*, On stump of *Cedrus deodara*.

Hyphodontia alutaria (Burt.) Erikss. Symb. Bot. Upsal. 16: 104. 1958.= *Peniophora alutauria* Burt, Ann. Mo. Bot. Gard. 12: 332. 1925.

Distribution: Shimla; Narkanda; Kullu; Chamba; Solan, Manali, Manali.

Substratum: On bark of *Cedrus deodara*.

Hyphodontia arguta (Fr.) Erikss., Symb. Bot. Upsal. 16: 104. 1958.=*Hydnum argutum* Fr., Syst. Mycol. P. 424. 1821.

Distribution: H.P.: Shimla-Narkanda, Mahasu; Kullu; Chamba-Dalhousie.

Substratum: On base of *Abies pindrow*, On stump of *Cedrus deodara*.

Hyphodontia aspera (Fr.) J. Erikss., Symb. Bot. Upsal. 16: 104, 1958.- *Grandinia aspera* Fr., *Hymenomyc. Eur.*: 627, 1874.

Distribution: Manali-reserve forests

Substratum: On bark & stump of *Cedrus deodara*.

Hyphodontia barbajovis (Bull.) J. Erikss., Symb. Bot. Upsal. 16 (1): 104, 1958. - *Hydnum barbajovis* Bull., *Herb. Fr.* 11: 481, 1791.

Distribution:Manali-Hadimba, reserve forests.

Substratum: twigs of *Cedrus deodara*.

Hyphodontia crustosa (Pers.) J. Erikss., Symb. Bot. Upsal. 16 (1): 104, 1958.- *Odontia crustosa* Pers., *Observ. Mycol.* 2: 16, 1800.

Distribution: Dalhousie, Shimla.

Substratum: On gymnospermous logs & twigs.

Hyphodontia efibulata Erikss. & Hjortst. forma *tetraspora* Rattan Bibl. Myco. J. Cramer, 1977.

Distribution: H.P.: Kullu; Chamba.

Substratum: On wood of *Picea smithiana*.

Hyphodontia hastata (Litsch) J. . Erikss., Symb. Bot. Upsal. 16 (1): 104,1958.- *Peniophora hastata* litsch., *Ost. Bot. Z.* 77: 130, 1928.

Distribution: H.P.: Solan-Chail.

Substratum: On fallen stick of *Cedrus deodara*.

Hyphodontia juniperi (Bourdot & Galzin) J. Erikss. & Hjortst., *Cortic. N. Eur.* 4: 666, 1976.- *Corticium serum* var. *Juniper* Bourdot & Galzin, *Bull. Soc. mycol. Fr.* 27(2): 246, 1911.

Distribution: Sundernagar, Mandi, Bilaspur.

Substratum: On rotten stick.

Hyphodontia pallidula (Bres.) Erikss., Symb. Bot. Upsal. 16: 104. 1958. = *Gonatobotrys pallidula* Bres., *Ann. Mycol. P.* 127. 1903.

Distribution: H.P.: Chamba; Manali; Shimla; Glen, Sundernagar.

Substratum: On bark of *Abies pindrow*, On stump of *Cedrus deodara* and decaying logs.

Hyphodontia propinqua Hjortst., Mycotaxon 17: 553, 1983.

Distribution: Chamba.

Substratum: On angiospermous wood.

Hyphodontia spathulata (Scharf. Ex Fr.) Parm. Consp. Syst. Cort. p. 123. 1968.= *Hydnum spathulatum* Scharf. Ex Fr., Syst. Mycol. 1: 423.1821.

Distribution: H.P.: Shimla; Kullu; Chamba, Manali.

Substratum: On wood of *Cedrus deodara*, on log of *Betula utilis*.

Xylodon (Pers.)Fr., Observations mycological 2:267, 1818

Xylodon pruni (Lasch) Hjortstam & Ryvarden, Syn. Fung. (Oslo) 23: 100 (2007) =*Phanerochaete pruni* (Litsch.) Rattan.

Distribution: Manali, Shimla-Glen.

Substratum: On decaying stump of *Q. leucotrichophora*.

Xylodon rimosissima (Peck) Gilb., *Mycologia* 54(6): 667, 1962.- *Odontia rimosissima* Peck, *Ann. Rep. N.Y. St. Mus.*50(1): 114, 1897.

Distribution: Manali, Manikaran

Substratum: On logs of *Pinus roxburghii* and *Cedrus deodara*.

Oxyporus (Bourd. & Galz.) Donk Med. Bot. Mus. Univ. Utrecht 9: 202, 1933

Oxyporus ravidus (Fr.) Bond. et Sing., Ann. Mycol. 39:63, 1941=*Polyporus ravidus* Fr., 457, 1838. =*Trametes ravidus* (Fr.) Pilat., *Atl. Polyp.* 272, 1939.

Distribution: H.P.: Shimla- Narkanda, Manali.

Substratum: On decaying angiospermic logs.

Schizopora Velen. Ceska Houby p. 638, 1922. Emend. Donk- Persoonia 5:76, 1967.

Schizopora paradoxa (Scharf. ex Fr.) Donk Persoonia 5: 104. 1967= *Hydnum paradoxum* Schrad. ex Fr., Syst. Mycol. 1: 424. 1967.= *Poria versipora* (Pers.) Rom. Svensk. Bot. Tidskr. 20:5. 1926.

Distribution: H.P.: Kullu; Shimla.

Substratum: On log.

Order-Polyporales

Family-Cystostereaceae

Cystostereum Pouz., Ceska Mykol. 13:18. 1959.
Cystostereum murrayi (Berk. & Curt.) Pouz. Ceaska Mykol. 13: 18. 1959. = *Thelephora murayi* Berk. & Curt., J. Linn. Soc. Bot. 10: 329. 1869
Distribution: H.P.:Chamba- Dalhousie, Lakkarmandi; Shimla- Mahasu, Narkanda; Kullu.
Substratum: Coniferous wooden poles and stumps of *Abies pindrow*.

Family-Fomitopsidaceae

Antrodia P. Karst. Emend. Donk Medd. Soc. Fauna Fl. fenn. 5: 40, 1879, emend. Donk, Persoonia 4: 339, 1966.

Antrodia gossypium (Speg.) Ryv., Norw. J. Bot. 20: 8, 1973.

Distribution: H.P.: Shimla.

Substratum: On log of *Abies pindrow*.

Antrodia serialis (Fr.) Donk, Persoonia 4: 340: 1966=*Daedalea serialis* (Fr.) Aoshima Trans. Mycol. Soc. Japan 8(1): 2, 1967.

Distribution: H.P.: Shimla-Mahasu; Kullu.

Substratum: On stump of *Abies pindrow*, on stump of *Pinus excelsa*.

Antrodia xantha (Fr.) Ryv., Norw. J. Bot. 20: 8, 1973.

Distribution: H.P.: Shimla.

Substratum: On decaying brunt log of *Pinus*.

Daedalea (Pers.) Syn. Meth. Fung.: 499, 1801.

Daedalea flavida Lév., Annlis Sci. Nat., Bot., sér. 3 2: 198 (1844)=*Lenzites adustus* Mass. Kew Bull. 11: 250, 1910.

Distribution: H.P.: Kullu; Mandi.

Substratum: On fallen gymnospermous log.

Daedalea quercina (L.) Pers., Syn. Meth. Fung.(Gottingen)2:500(1801)Fr., Syst. Mycol. 1:333, 1821.

Distribution: H.P.: Chamba.

Substratum: On decaying angiospermic stumps.

Daedalea xantha (Fr.) Roy & De

Distribution: H.P.: Kullu.

Substratum: On stump of *Shorea robusta*, *Albizia stipulata*.

Dacryobolus Fr. Summaveg. Scand 2. 404,1849 emend. Overw., Z. Pilzk. 31: 40. 1965.

Dacryobolus karstenii (Bers.) Overw. ex. Parm., Consp. Syst. Cort. p. 98. 1968. = *Stereum karstenii* Bers., Atti. I.R. Acad. Agiati. III, 3: 108. 1897.

Distribution: H.P.: Chamba; Kullu; Shimla.

Substratum: On stump of *Cedrus deodara*, *Abies pindrow*, *Pinus excelsa*.

Dacryobolus sudans (Fr.) Fr., Summa Veg. Scand. 404. 1849.

Distribution: H.P.: Shimla-Narkanda.

Substratum: On log and under conifers & *Quercus incana*.

Fomitopsis Karst., Medd. Soc.Fl. Fauna 6: 9, 1881.

Fomitopsis rosea (Alb. et Schw. ex Fr.) Karst., Krit. Ofv. Finl. Basidv. P. 306, 1889=*Polyporus roseus* (Alb. et Schw. Fr.) Karst., Soc. F. F. Fenn. Meddel. 5:39, 1879.

Distribution: H.P.: Chamba; Kullu; Shimla.

Substratum: On decaying *Cedrus deodara*, *Pinus excelsa* logs.

Fomitopsis rufolaccata (Bose) Dhanda [as '*rufolaccatus*'], in Thind & Dhanda, Indian Phytopath. 33(3): 386 (1981) [1980] =*Fomitopsis rufolaccatus* (Bose) Dhanda, Comb. nov.

Distribution: H.P.: Chamba-Dalhousie, Khajjiar; Manali- Kothi; Kullu- Pulga.

Substratum: *Cedrus deodara* and logs of *Abies pindrow*.

Laetiporus Murr., Bull.Torrey Bot. Cl. 31: 607, 1904.

Laetiporus sulphureus (Bull. ex Fr.) Murr. Mycologia 12(1):11, 1920.=*Polyporus sulphureus* Bull. ex Fr., Syst. Mycol.1: 357, 1821.

Distribution: H.P.: Shimla-Bashahr; Chamba; Kangar-Dharamshala; Kullu; Bilaspur.

Substratum: On decaying angiospermic log.

Phaeolus (Pat.) Pat. N., Egsai. Taxonomique: 86, (1900)

Phaeolus schweinitzii (Fr.) Pat., Essai Tax. Hyménomyc. (Lons-le-Saunier): 86 (1900)=*Polyporus schweinitzii* Fr., Syst. mycol. (Lundae) 1: 351 (1821)

Distribution: H.P.Shimla; Chamba; Kullu.

Substratum: On cut stump.

Postia Fr., Hymen. Europe p. 586,11: 422, 1982.

Postia guttulata (Peck ex Sacc.) Jülich, Persoonia 11(4): 423 (1982) =*Tyromyces guttulatus* (Peck.) Murr. North Am. Flora 9: 31, 1907.

Distribution: H.P: Shimla; Kullu.

Substratum: On decaying angiospermic log.

Postia leucomallella (Murrill) Jülich, Persoonia 11(4): 423 (1982)=*Postia fragilis* (Fr.) Jülich. Sesu auct; fide Checklist of Basidiomycota of Great Britain & Ireland(2005)Persoonia 11, 423, 1982=*Polyporus fragilis* Fr., Elench. Fung. 1: 86, 1828=*Tyromyces fragilis* (Fr.) Donk. Meded. bot.

Mus. Herb. Rijks- Univ. Utrecht 9: 148, 1933.

Distribution: H.P.: Chamba; Shimla- Khadralla.

Substratum: On decaying *Cedrus deodara* log.

Postia sericeomollis (Romell) Jülich, *Persoonia* 11(4): 423 (1982)=*Tyromyces sericeo-mollis* (Rom.) Bond. & Sing., *Annl. Mycol.*, 39:51, 1941.

Distribution: H.P.: Kullu.

Substratum: On stump of *Cedrus deodara*.

Postia tephroleuca (Fr.) Jülich, *Personia* 11 (4): 424 (1982)=*Polyporus tephroleucus* Fr. 1821.

Distribution: Kullu.

Substratum: On decaying angiospermic log.

Order-Polyporales

Family – Ganodermataceae

Ganoderma P. Karst., *Revue mycol.*, Toulouse 3 (no. 9): 17 (1881)

Ganoderma applanatum (Pers. ex. S.F.Gray) Pat., *Bull. Soc. Mycol. Fr.* 5: 67, 1889.

Distribution Shimla- Narkanda, Khadralla, Hattoo peak, Tutupani, Baghi ; Kullu- Pulga; Chamba-Dalhousie, Kalatope, Lakkarmandi, Manali- Jagat sukh; Kangra-Dharamsala- Yol camp, Sidhbari; Bilaspur-Raura Sector.

Substratum: stumps, buried woods, logs and stumps of *Abies pindrow*, *Acer oblongum*, *Juglans regia* and gymnosperms, logs under mixed forest and stumps of *Cedrus deodara*.

Ganoderma australe (Fr.) Pat. 1890 =*Ganoderma tornatum* (Pers.) Bres., *Annl. Mycol.* 10: 502, 1912.

Distribution Shimla- kumarsain.

Substratum: Buried woods.

Ganoderma lucidum (Curtis ex Fr.) P. Karst., *Revue mycol.* 3(9): 17, 1881.

Distribution Shimla- The glen, Summer hills, Tara devi, Chadwick falls, Narkanda; Manali- Gojra, jagat sukh, Kothi; Chamba-Dalhousie, Khajjiar, Kalatope, Jandrihat, Banik; Kullu- Pulga; Kangra-Dharamsala, Yol, village rasan; Bilaspur-Raura sector.

Substratum: Base of angiospermic trees, soil, buried woods under mixed forest, stumps of *Cedrus deodara*, exposed roots of *Quercus incana*, base of *Acer oblongum*.

Ganoderma resinaceum Boud. apud Pat., *Bull. soc. Mycol. Fr.* 5: 72, 1889.

Distribution: Chamba-Dalhousie, Bakrota.

Substratum: *Quercus incana* and base of *Quercus semecarpifolia*.

Family Meripileaceae

Physisporinus P. Karst., *Bidr. Kann Finl. Nat. Folk* 48:324,1889.

Physisporinus rivulosus (Berk. & M.A. Curtis) Ryvarden [as 'rivulosa'], *Mycotaxon* 20(2): 353 (1984)=*Poria rivulosa* (Berk. & M.A. Curtis) Cooke, *Grevillea* 14(no. 72): 109 (1886)

Distribution: H.P.: Kullu- Rangri.

Substratum: stumps of *Cedrus deodara*.

Rigidoporus Murr. *Bull. Torrey Bot. Club* 32: 478, 1905.

Rigidoporus ulmarius (Sowerby) Imazeki, *Bull. Gov. Forest Exp. St. Tokyo* 57: 119 (1952)=*Fomes ulmarius* Fr., *Hymenomyc. eur. (Upsaliae)*: 683 (1874).

Distribution: H.P.: Kullu- Pulga, Manikaran to Pulga; Chamba-Dalhousie, Lakkarmandi to Khajjiar; Shimla- Narkanda, The glen.

Substratum: On trunks of living tree of *Rhododendron* sp.

Family Meruliaceae

Abortiporus Murrill.

Abortiporus biennis (Bull.) Singer, *Mycologia* 36(1): 68 (1944).

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On Stump of *Pinus roxbughii*.

Bjerkendra Karst. *Medd. Soc. Fauna F1. Fenn.* 5:38, 1879.

Bjerkendra adusta(Fr.) Karst., *Medd. Soc. Fauna F1. Fenn.* 5: 38, 1879.

Distribution: H.P.: Shimla-Narkanda; Kangara-Dharamsala; Kinnaur; Kullu.

Substratum: On under surface of decaying angiospermic log.

Bjerkendra fumosa (Pers.: Fr.) Karst., *Medd. Soc. Fauna F1. Fenn.* 5: 38, 1879.

Distribution: H.P.: Shimla.

Substratum: On decaying angiospermic log.

Cabalodontia M. Piatek *Polish. Bot. J.* 49(1):2, 2004.

Cabalodontia queletii (Bourdot & Galzin) Piatek, *Polish Botanical Journal* 49(1): 3 (2004)
Metulodontia queletii (Bourd. & Galz.) Parm. *Consp. Syst. Cort.* 118. 1968.= *Odontia queletii* Bourd. & Galz., *Bull. Soc. Mycol. France* 30: 270. 1912.

Distribution: H.P.: Shimla-Kufri; Chamba-Dalhousie.

Substratum: On angiospermic twig, on log of *Quercus incana*.

Cabalodontia subcretacea (Litsch.) Piatek, *Polish Botanical Journal* 49(1): 3 (2004)= *Phlebia subcretacea* (Litsch.) Christ. *Dansk Bot. Ark.* 19:

165. 1960. = *Corticium subcretaceum* Litsch., Ostr. Bot. Zeitschr. 88: 110. 1939.

Distribution: H.P.: Shimla-Mahasu.

Substratum: On stump under conifers.

Gloeoporus Mont. Ann. Sci. Nat. Bot. Set. 2, 17: 126, 1842.

Gloeoporus dichorus (Fr.) Bres. Ann. Mycol. 14: 230, 1916= *Polyporus dichorus* Fr., Syst. Mycol. 1: 364, 1821.

Distribution: Shimla; Chamba; Kullu.

Substratum: On decaying angiospermic log.

Gyrophanopsis Julich Persoonia 10(3):329, 1979.

Gyrophanopsis polonensis (Bres.) Stalpers & P.K. Buchanan, N.Z. J. Bot. 29(3): 333 (1991)=

Hypochnicium polonense (Bres.) Strid, Wahlenb. 1 p.68, 1975.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On decaying angiospermic twigs, on a decaying stump of *Cryptomeria japonica*.

Hyphoderma Wallr. Fl. crypt. 2 p.576, 1833., emend. Donk Fungus 27 p.13, 1957.

Hyphoderma argillaceum (Bres.) Donk, Fungus 27, p.14, 1957. – *Corticium argillaceum* Bres., Fung. trid. 2 p.63, 1898.

Distribution: H.P.: Chamba-Dalhousie; Kullu.

Substratum: On decaying angiospermic branch.

Hyphoderma definitum (Jacks.) Donk Fungus 27: 15. 1957.

Distribution: H.P.: Chamba-Dalhousie, Kalatope.

Substratum: Wood under conifers.

Hyphoderma macedonicum (Litsch.) Donk, Fungus, Wageningen 27: 15, 1957= *Gloeocystidium macedonicum* Litsch., Glasnik (Bull.) Soc. Scient. Skopje 18(6) : 181, 1938.

Distribution: H.P.: Shimla.

Substratum: On stump of *Cedrus deodara*.

Hyphoderma pallidum (Bres.) Donk Fungus 27: 15, 1957.= *Corticium pallidum* Bres., Fung. Trid. 2: 59. 1898.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On wood under conifers.

Hyphoderma parvispora Singh A.P., Priyanka, Dhingra & Singla Mycotaxon 2010.

Distribution: H.P.: Chamba-Dalhousie

Substratum: On a decayed gymnospermous wood.

Hyphoderma setigerum (Fr.) Donk Fungus 27L 15. 1957. = *Thelephora setigera* Fr., Elench. Fung. 1: 208. 1828.

Distribution: H.P.: Shimla; Chamba-Dalhousie.

Substratum: On stump of *Cedrus deodara*.

Hyphoderma singularibasidium Dhingra, A.P. Singh & Singla, Mycotaxon 108: 197 2009.

Distribution: H.P.: Chamba.

Substratum: Decayed gymnospermous log.

Hyphoderma tenue (Pat.) Donk Fungus 27: 15. 1957.

Distribution: H.P.: Chamba-Dalhousie, Kalatope, Khijjiar; Shimla- Mahasu, Narkanda.

Substratum: On stumps of *Cedrus deodara*, On twigs under a mixed forest and stumps under angiosperms.

Hypochnicium J. Erikss., Symb. Bot. Upsal. 16: 100. 1958.

Hypochnicium cystidiatum Boid. & Gill. Cah. Mabok. 9: 90. 1971.

Distribution: H.P.: Shimla.

Substratum: On stump under angiosperms.

Hypochnicium longicystidiosum (S.S. Rattan) Hjortstam & Ryvarden, Mycotaxon 20(1): 135 (1984)=*Hyphodontia longicystidiosa* S.S.Rattan 1977.

Distribution: H.P.: Kullu-Manali.

Substratum: On twigs of *Cedrus deodara*.

Hypochnicium lundellii (Bourd.) Erikss. Symb. Bot. Upsal. 16: 101. 1958. = *Corticium lundellii* Bourd. In Erikss., Svensk. Bot. Tidskr. 43: 56. 1949.

Distribution: H.P.: Shimla.

Substratum: On stump under mixed forest.

Hypochnicium punctulatum (Cooke) Erikss. Symb. Bot. Upsal. 16: 101. 1958. =*Corticium punctulatum* Cooke, Grevillea 6: 132. 1878.

Distribution: H.P.: Kullu; Chamba- Dalhousie; Shimla.

Substratum: On log of *Abies pindrow*, On bark of *Cedrus deodara*, *Quercus incana*.

Hypochnicium sphaerosporum (Hoehn. & Litsch.) Erikss. Symb. Bot. Upsal. 16: 101. 1958. =*Peniophora sphaeospora* Hoehn. & Litsch., K. Acad. Wiss. Wien. Math.-Nat. Klasse Sitzber. 115: 1559. 1906.

Distribution: H.P.: Shimla-Narkanda; Kullu.

Substratum: On stump of *Pinus excelsa*, *Abies pindrow*.

Irpex Fr., Syst. Orb. Veg. P.81, 1825; Elench. Fung. 1: 142, 1828.

Irpex consors Berk., J. Linn. Soc. Bot. 16: 51. 1877.

Distribution: H.P.: Chamba-Dalhousie, Banikhet; Shimla- The Glen.

Substratum: stump of *Quercus*

Irpex lacteus (Fr.) Fr. Elench. Fung. 1: 145, 1828.
Distribution: H.P.: Kullu; Mandi; Bilaspur.
Substratum: On decaying *Pinus roxburghii* log.

Junghuhnia Corda, Anl. Zum. Stud. der Mycol.: 195, 1842., Emend. Ryv., Persoonia 7: 17-21, 1972.

Junghuhnia collabens (Fr.) Ryvarden, Persoonia 7(1): 18 (1972) = *Irpex collabens* (Fr.) Ryv. Persoonia 7: 18, 1972 = *Polyporus collabens* Fr., Hym. Europ., p. 572, 1874 = *Poria rixosa* Karst., Rev. Mycol. 3, 9: 19, 1881.

Distribution: H.P.: Kullu; Chamba- Dalhousie.
Substratum: On decaying log of *Abies pindrow*, *Pinus excelsa*.

Junghuhnia nitida (Pers. ex Fr.) Ryv. Persoonia 7: 18. 1972. = *Polyporus nitidus* Pers. ex Fr., Syst. Mycol. 1: 379. 1821. = *Poria eupora* (Karst.) Cooke, Grevillea 14: 110. 1886.

Distribution: H.P.: Kullu; Chamba; Shimla.
Substratum: On log under a mixed forest.

Mycoacia Donk, Med. Nederl. Mycol. Ver. 18-20: 150, 1931.

Mycoacia stenodon (Pers.) Donk Med. Nederl. Mycol. Ver. 20: 151. 1931. = *Hydnum stedon* Pers., Mycol Eur. II, 188. 1825.

Distribution: H.P.: Shimla; Chamba.
Substratum: On angiospermic twig.

Phlebia Fr., Systema Mycol. 1: 4-6, 1821. emend. Donk, Fungus 27: 8. 1957.

Phlebia crassisubiculata Singh A.P., Priyanka, Dhingra & Singla *Mycotaxon* 112, 21-24.

Distribution: H.P.: Chamba, 2 km from Dalhousie in direction to Banikhet.
Substratum: On underside of gymnospermous stump.

Phlebia livida (Pers. ex Fr.) Bres., Atti, Accad. Agiati III. 3: 105. 1897.

Distribution: H.P.: Shimla-Narakanda; kullu; Chamba- Dalhousie.
Substratum: On log of *Abies pindrow*, *Pinus excelsa*

Phlebia radiata Fr. Syst. Mycol. 1: 427. 1821; Elench. Fung. I: 154, 1828.

Distribution: H.P.: Shimla.
Substratum: On stump of *Junghunia regia*.

Phlebia segregata (Bourdot & Galzin) Parmasto, Eesti NSV Tead. Akad. Toim., Biot. Seer 16 (4): 393, 1967 = *Peniophora segregata* Bourdot & Galzin, Hymenomyc. De France: 284, 1928.

Distribution: H.P.-Shimla.
Substratum: On a decaying angiospermic log.

Phlebia subserialis (Bourd. & Galz.) Donk Fungus 27: 12. 1957. = *Corticium subseriale* Bourd. & Galz., Hym. France p. 219. 1928.

Distribution: H.P.: Shimla.
Substratum: On a decaying angiospermic log.

Phlebia subochracea (Alb. & Schwein.) J. Erikss. & Ryvarden, Cortic. N. Eur. (Oslo) 4: 873 (1976) *Mycoacia subochracea* (Bres.) Parm. Consp., Sust. Cort. p. 99. 1968. = *Grandinia subochracea* Bres., Hedwigia 33: 206. 1894.

Distribution: H.P.: Shimla.
Substratum: On angiospermic stump.

Radulodon Ryverden, Can. J. Bot. 50: 2073. 1972.
Radulodon americanus Ryverden, Can. J. Bot. 50: 2074. 1972.

Distribution: H.P.: Chamba-Dalhousie.
Substratum: On log under conifers.

Radulodon erikssonii Ryverden, Can. J. Bot. 50: 2075. 1972.

Distribution: H.P.: Shimla-Narkanda; Chamba-Dalhousie.
Substratum: On log under angiosperms.

Scopuloides (Masse) Höhn. & Litsch. Linsbauer, K., Wiesner Festschrift 57, 58, 1908.

Scopuloides hydnooides (Cooke & Masee) Hjortstam & Ryvarden, Mycotaxon 9(2): 509 (1979) = *Phlebia hydnooides* (Cooke & Mass.) Christ. Dansk. Bot. Ark. 19: 175. 1960. = *Peniophora hydnooides* Cooke & Madd. In Masee, Monogr. P. 154. 1889.

Distribution: H.P.: Kullu; Chamba-Dalhousie.
Substratum: On stump of *Cedrus deodara*, *Abies pindrow*.

Sarcodontia Schulzer, in Schulzer von Muggenburg *et al.*, Verh. Zool.-Bot. Ges. Wien 16 (Abh.): 41 (1866).

Sarcodontia pachyodon (Pers.) Spirin, Mycena 1(1): 64-71 (2001) = *Radulomyces pachyodon* (Pers.) Christ. Dansk. Bot. Arkiv 19: 232. 1960.

Distribution: H.P.: Shimla-Mahasu, Sarahan.
Substratum: logs under mixed forest.

Steccherinum Gray, Nat. Arrang. Br. Pl. 1: 651. 1821.

Steccherinum ciliolatum (Berk. & Curt.) Gilb. & Bud. Journ. Arizona Acad. Sci. 6: 97. 1970.

Distribution: H.P.: Shimla- Glen, Annandale; Chamba- Khijjiar.
Substratum: Twigs and wood under mixed forest, angiospermic stumps.

Steccharinum fimbriatum (Pers.: Fr.) Erikss., Symb. Bot. Upsal. 16:134. 1958.= *Hydnum fimbriatum* Pers. : Fr. Syst. Mycol. 1:421, 1821.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On angiospermic stumps.

Steccherinum laeticolor (Berk. & Curt.) Banker Mycologia 4: 316. 1912.= *Hydnum laeticolor* Berk. & Curt., in Berk., Grevillea 1: 99. 1873.

Distribution: H.P.: Kullu.

Substratum: On angiospermic twig.

Steccherinum ochraceum (Pers. : Fr.) Gray, Nat. Arrang. Brit. Pl. 1: 651. 1821.= *Hydnum ochraceum* Pers. : Fr. , Syst. Mycol. 1: 414. 1821.= *Steccherinum rhois* (Schw.) Banker, Mem. Torrey Bot. Cl. 12: 12. 1906.=*Steccherinum resupinatum* Cunn, Trans. Roy. Soc. N.Z. 85: 596. 1958.

Distribution: H.P.: Kullu-Manali; Shimla; Chamba- Dalhousie.

Substratum: On angiospermic wood, On female cone of *Picea smithiana*.

Family Phanerochaetaceae

Antrodiella Ryvarden & I. Johans. A prelim. Polyp. Flor. Of E. Afri:256,1980

Antrodiella zonata (Berk.) Ryvarden, Boln Soc. argent. Bot. 28(1-4): 228 (1992)=*Irpex zonatus* Berk., *Hooker J. Bot.* 6: 168, 1854.

Distribution: H.P.: Chamba-Dalhousie, Lakkar mandi, Khajjiar, Kalatope, Panjpulla, Lover's walk, Jandrigat, Banikhet; Shimla- Mashobra, The Glen, Chadwick falls, Narkanda; Kullu- Manali,Gojra; Bilaspur.

Substratum: Stumps of *Cedrus deodara*, *Picea smithiana*, *Quercus*, *Abies pindrow*, *Q. semecarpifolia*, *Q. incana*. Stumps under mixed forest and angiospermic forest.

Botryohypochnus Donk, Medd. Nederl. Mycol. Ver. 18-20: 118. 1931.

Botryohypochnus isabellinus (Fr.) Erikss. Sven. Bot. Tidskr. 52: 2. 1958. = *Thelephora isabellina* Fr.,Epicr. P. 544. 1838.

Distribution: H.P.: Chamba; Kullu; Shimla.

Substratum: On angiospermic twig.

Phanerochaete Karst. Bidr. Kann. Finl. Nat. 48:426, 1889.,emend Donk, *Persoonia* 2: 223. 1962.

Phanerochaete affinis (Burt) Parm. Consp. Syst. Cort. 84: 1968.

Distribution: H.P.: Chamba- Dalhousie, Bakrota.

Substratum: stumps under mixed forest.

Phanerochaete deflectans (P. Karst.) Hjortstam, *Windahlia* 17: 58, 1987=*Grandinia deflectans* P. Karst., Bidr. Känn. Finl. Nat. Folk 37: 239, 1882.

Distribution: H.P.: Shimla.

Substratum: On decaying stump of *Cedrus deodara*.

Phanerochaete tuberculata (Karst.) Parm. Consp. Syst. Cort. 83: 1968.= *Corticium tuberculatum* Karst., *Hedwigia* 35: 45. 1895.

Distribution: H.P.: Kullu.

Substratum: On log under angiosperms.

Phlebiopsis Jülich *Persoonia* 10:137, 1978.

Phlebiopsis gigantea (Fr.) Jülich, *Persoonia* 10 p.137, 1978=*Thelephora gigantea* Fr., Syst. mycol. I p.448, 1821=*Phanerochaete gigantea* (Fr. ex Fr.) Rattan.

Distribution: H.P.: Shimla-Mahasu, Narkanda; Kinnaur- Nichhar; Chamba-Dalhousie, Lower Bakrota Kalpa, Pangi nullah; Kullu- Gojra, Rohtang.

Substratum: stumps and logs of *Abies pindrow*, decorticated stump and bark of *Cedrus deodara*, log of *Pinus gegendiana*, logs under conifers, stumps under mixed forest.

Phlebiopsis ravenelii (Cooke) Hjortstam, *Windahlia* 17: 58 (1987)=*Phlebiopsis roumeguerii* (Bres.) Jülich & Stalpers, Verh. Kon. Ned. Akad. Wet. Ser. 2. vol.74: 190, 1980=*Corticium roumeguerii* Bres. *Fungi trid.* 2 p.36, 1892.= *Phlebia roumegueri* (Bers.) Donk *Fungus* 27: 18. 1957.= *Corticium roumegueri* Bres., *Fungi Trident.* 2: 36. 1892.

Distribution: H.P.: Shimla-Narkanda, Mahasu; Chamba, Kullu.

Substratum: On bark of *Abies pindrow*, On stump of *Cedrus deodara*.

Porostereum Pilát

Porostereum spadiceum (Pers.) Hjortstam & Ryvarden, Syn. Fung. (Oslo) 4: 51 (1990) =*Lopharia fulva* (Lev.) Boidin *Bull. Soc. Linn. Lyon* 28: 213. 1959.

Distribution: H.P.: Kinnaur- Nichhar; Kullu- Bandal.

Substratum: fallen logs and rotten stumps.

Rhizochaete Gresl., Nakasone & Rajchenb. *Mycologia* 96(2):261, 2004.

Rhizochaete filamentosa (Berk. & M.A. Curtis) Gresl., Nakasone & Rajchenb., *Mycologia* 96(2): 267 (2004)= *Phanerochaete filamentosa* (Berk.& Curt.) Parm. Consp. Syst. Cort. 83. 1968. Basionym: *Corticium filamentosum* Berk.& Curt., *Grevillea* 1: 178. 1873.

Distribution: H.P.:Kullu- Khanag, Jalori; Chamba- Dalhousie- Lover's walk, Khijjiar; Shimla- Taradevi, Chail, Mahasu, Narkanda, Bagi.

Substratum: stumps of *Quercus incana* and *Rhododendron arboretum*, logs of *Abies pindrow*, fallen logs, stumps under angiosperms and mixed forest.

Family- Polyporaceae

Datronia Donk Persoonia 4(3): 337, 1966.

Datronia mollis (Sommerf. Ex Fr.) Donk Persoonia 4: 338, 1966= *Daedalea mollis* Sommerf. Ex Fr., Elench. Fung. P. 71, 1828.

Distribution: H.P.-Kullu.

Substratum: On decaying angiospermic log.

Datronia scutellata (Schwein.) Gilb. & Ryvardeen, Mycotaxon 22(2): 364 (1985)= *Hexagonia scutellata*(Schw.) Roy & De, comb. nov. Basionym: *Polyporus scutellatus* Schw., Trans. Amer. Phil. Soc. II, 4: 157, 1832=*Fomes scutellatus* (Schw.)Cke., Grevillea 14: 19, 1885.

Distribution: H.P.: Chamba- Dalhousie.

Substratum: On decaying *Cedrus deodara* log.

Dichomitus Reid Rev. Biol. 5: 149, 1965.

Dichomitus leucoplacus (Berk.) Ryvardeen, Norw. J Bot. 24: 222 (1977) =*Poria leucoplaca* (Berk.) Sacc. 1888.

Distribution: H.P: Chamba.

Substratum: On decaying angiospermic twigs.

Diplomitoporus Dom. Acta Soc. Bot. Pol. 39: 191, 1970.

Diplomitoporus rimosus (Murrill) Gilb. & Ryvardeen, Mycotaxon 22(2): 364 (1985)=*Poria rimosa* Murrill, Mycologia 12(2): 91 (1920).

Distribution: H.P.: Shimla- Shillaroo.

Substratum: Burnt logs in mixed forest.

Epithelopsis JUlrich, Persoonia 8(4): 457, 1976.

Epithelopsis fulva (G. Cunn.) Jülich, Persoonia 8(4): 457 (1976)= *Epithele fulva* G. Cunn., Trans. Roy. Soc. N.Z. 83: 631 (1956).

Distribution: H.P.: Shimla

Substratum: On bark of *Rhododendron arboretum*.

Fomes Fr. Summa Veg. Scand. 2:319, 1849..

Fomes fomentarius (L.) Kickx *Fl. Crypt. Flandres* 2: 237, 1867

Distribution: H.P. : Chamba; Kullu; Shimla.

Substratum: On deaying angiospermic logs.

Fomes johnsonianus (Murr.) Lowe, State Univ. Coll. For. Techn. Publ., 80, 36, 1957.

Distribution: H.P.: Shimla-Mahasu.

Substratum: On stump under an angiospermic forest.

Fomes pini (Brot.) P. Karst. 1882

Distribution: H.P.: Shimla-Mahasu; Chamba; Kullu.

Substratum: On *Cedrus deodara*, *Abies sp.* stump.

Hexagonia Fr. Fl. Scan. 339, 1835.

Hexagonia tenuis Hook, ex, Fr. Epicr. Syst. Mycol. 498, 1838=*Boletus tenuis* Hook. Ex Kunth, Syn.. Pl. 1:10, 1822.

Distribution: H.P.: Mandi- Siniardi.

Substratum: On decaying angiospermic log.

Lentinus Fr. Syst. Orb. Veg. 1: 77, 1825

Lentinus fasciatus Berk. *J. Bot.* 2: 146, 1840

Distribution: H.P.: Shimla-Mahasu; Kullu.

Substratum: On *Cedrus deodara*, *Abies sp.* stump.

Lenzites Fr. Fl. Scan. P. 339,1835; Gen. Hyn.,P.10, 1836; Epicr., P. 403, 1838

Lenzites betulina (Fr.) Fr. epicr., P. 405, 1838.

Distribution: H.P.: Kullu- jaree, Grhamnall,Manali, Gulaba; Shimla- Taradevi, Narkanda, Baghi, Khadralla; Chamba-Dalhousie, Jandrighat, Baloon, Banikhet, Lakkarmandi, Khajjiar, lower Bushahr, Singri to Baholi; Bilaspur-Changar.

Substratum: On decaying angiospermic twigs.

Lenzites eximia Berk. & Curt. Hooker *J. Bot.* 6: 134, 1854.

Distribution: H.P.: Shimla- Baghi, khadralla, Mashobra; Kullu- Pulga; Mandi.

Substratum: On decaying angiospermic log

Lenzites palisoti (Fr.) Fr. Syst. Mycol. 1:335, 1821=*Lenzites elegans* (Fr.) Pat., Essai Tax. P. 89, 1900.

Distribution: H.P.: Shimla- Kufri, Narkanda; Chamba-Dalhousie, Khajjiar.

Substratum: On decaying angiospermic and *Shorea robusta*, *Quercus sp.* Log.

Lopharia Kalchbr. & MacOwan *Gravillea* 10(54): 58, 1881., emend Cunn., Trans. Roy. Soc. N.Z. 83: 621. 1956.

Lopharia cinerascens (Schw.) Cunn., Trans. Roy. Soc. N.Z. 83: 622.1956.= *Thelephora cinerascens* Schw., Trans. Amer. Phil. Soc. 4: 167. 1832.

Distribution: H.P.: Shimla-Mahasu; Kinnaur.

Substratum: On dead stump of *Quercus incana*.

Macrohyporia I. Johans. & Ryvardeen Trans. Brit. Mycol. Soc. 72(2): 1922, 1979.

Macrohyporia inflata Overh. ex I. Johans. & Ryvardeen, Trans. Br. mycol. Soc. 72(2): 192 (1979)=*Poria inflata* Overh., Proc. Pa. Acad. Sci. 13: 123, 1939.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On stump of *Shorea robusta* forests.

Microporus P. Beauv., Fl.Oware. Benim Afr.: 1:12, 1805., emend. Kuntz ,Pat. Rev. Gen. Pl. 3: 494, 1898.

Microporus xanthopus (Fr.) Kuntze, Rev. Gen. Pl. 3: 494, 1898.

Distribution: H.P.: Shimla; Kullu.

Substratum: On decaying angiospermic twigs

Nigroporus Murrill Bull. Torrey Bot. Club 32: 361, 1905.

Nigroporus vinosus (Berk.) Murrill, Bull. Torrey Bot. Club 32: 361, 1905.

Distribution: H.P.: Bilaspur.

Substratum: On decaying angiospermic log

Perenniporia Murr. Mycologia 34: 595, 1942

Perenniporia fulviseda (Bers.) Dhanda, Comb. nov.

Distribution: Shimla- The glen; Chamba-Dalhousie, Banikhet, Lover's walk.

Substratum: Stumps in angiospermic forest, roots of deciduous trees and stumps of *Quercus incana*.

Perenniporia medulla-panis (Jacq.) Donk, Persoonia 5(1): 76 (1967). = *Polyporus medullapanis* Jacq. ex Fr., Syst. Mycol. 1: 380, 1821.

Distribution: H.P.: Chamba-Dalhousie, kalatop; Kangar-Dharamshala.

Substratum: On stump of *Cedrus deodara*.

Polyporus Michel. ex. Adams Familles des plantes 2: 10, 1763 Syst. Mycol. 1: 341, 1821. Emend. Donk, Meded. Bot. Mus. Univ. Utrecht 9: 123, 1933.

Polyporus arcularius (Batsch) Fr., Syst. Mycol. 1: 342, 1821.

Distribution: H.P.: Kullu- Pulga; Kangra-Dharamshala, Yol camp; Shimla- Taradevi; Chamba-Dalhousie, Banikhet.

Substratum: On decaying angiospermic twigs.

Polyporus durus = *Polyporus picipes* Fr., Epicrisis p. 440, 1838.

Distribution: Shimla- Jakhoo, Narkanda, Rampur road, Khadralla, Tutupani; Chamba- chhatri, Dalhousie- Lakkarmandi to Khajjiar.

Substratum: logs under coniferous forest, buried wood, logs and stumps of *Abies pindrow* and *Picea morinda*.

Polyporus grammocephalus Berk., London J. Bot. 1: 148 (1842)

Distribution: Bilaspur- Swarghaat.

Substratum: On fallen log.

Polyporus squamosus Huds. ex Fr., Syst. Mycol. P. 343, 1821.

Distribution: H.P.: Kullu- Manali ; Shimla.

Substratum: On decaying angiospermic log.

Poria Adans. Fam. Des. Plantes 2: 10. 1763.

Poria auricoma (Lev) Cooke, Grevilles 15: 26, 1886.

Distribution: H.P.: Chamba-Dalhousie; Mandi-Siniardi.

Substratum: On stump of *Shorea robusta*.

Poria conferata Overh., Pa Agr. Exp. Sta., Tech. Bull. 418: 25, 1942.

Distribution: H.P.: Shimla- Narkanda.

Substratum: On log of *Juglens regia*.

Poria fulviseda Bres., Accad. Rover. Agiati. 3: 84: 1897.

Distribution: H.P.: Chamba- Dalhousie, Banikhet, Lover's walk; Shimla- The Glen.

Substratum: On stump of *Quercus incana*.

Poria melleopora (Murr.) Sacc. And Trott., Sylloge Fung. 21: 330, 1912.

Distribution: H.P.: Chamba-Dalhousie; Mandi-Siniardi.

Substratum: On dead angiospermic tree.

Poria mesoleuca (Petch) Ryv., Norw. J. Bot. 19: 233, 1972.

Distribution: H.P.: Solan-Kausali.

Substratum: At the base of an angiosperm.

Poria monticola Murr., Mycologia 12: 90. 1920.

Distribution: H.P.: Kullu.

Substratum: On stump of *Pinus excelsa*.

Skeletocutis Kotl. & Pouz. Ceska Mykol. 12: 103, 1958.

Skeletocutis amorphia (Fr.) Kotl. & Pouz., Česka Mykol. 12: 103, 1958.

Distribution: H.P.: Kullu; Shimla.

Substratum: On decaying *Pinus* log.

Trametes Fr., Fl. Scan.: 339 (1836)

Trametes gibbosa (Pers.) Fr., Epicr. P. 492, 1838.

Distribution: H.P.: Kullu; Bilaspur.

Substratum: On decaying angiospermic stem.

Trametes hirsutus (Fr.) Pilat Atlas Champ. Europ. 3: 268, 1939 = *Coriolus hirsutus* (Wulfen) Pat. 1897 = *Coriolus velutinus* P. Karst., Trudy Troitsk. Otd. imp. russk. geogr. obsc. 8: 61 (1906).

Distribution: H.P.: Kullu- Pulga, Manali, Gulaba, Gojra, Jagatsukh; Chamba- Kilorgala, Dalhousie, Khajjiar, Banikhet, Lakkarmandi; Shimla- Baghi, Narkanda, Khadralla, Rampur road; Kangra-Dharamshala, Yol; Bilaspur.

Substratum: On decaying angiospermic twigs.

Trametes lactinea (Berk.) Pat. Essai. Tax. p. 92, 1900 = *Coriolus lactineus* (Berk.) G. Cunn. 1950.

Distribution: H.P.: Kullu-Manali, Gulaba.

Substratum: On decaying *Shorea robusta*, *Pinus longifolia* log.

Trametes menziesii (Berk.) Ryvarden, [as 'menzeisii'], Norw. J. Bot. 19(3-4): 236 (1972)=*Polyporus vittatus* Berk., Lond. J. Bot. 6: 505, 1847.

Distribution: H.P.: Shimla- Khadralla.

Substratum: stumps of *Quercus incana*.

Trametes ochracea (Pers.) Gilb. & Ryvarden, N. Amer. Polyp., Vol. 2 Megasperoporia - *Wrightoporia* (Oslo): 752 (1987)=*Coriolus zonatus* (Nees) Quél., Enchir. fung. (Paris): 175 (1886).

Distribution: H.P.: Kinnaur-Kalpa, Tacklech; Kullu- Pulga, Manali, Gojra, Jagatsukh, Gulaba; Chamba- sara, Dalhousie- Khajjiar; Shimla-Narkanda, Baghi.

Substratum: logs, stumps, bark, rotten stumps, stumps under mixed forest, dead logs and stumps of *Quercus incana*.

Trametes versicolor (L.) Lloyd, Mycol. Notes (Cincinnati) 65: 1045 (1921) [1920]= *Coriolus versicolor* (L.) Quél., Enchir. fung. (Paris): 175 (1886).

Distribution: H.P.: Chamba; Kangra-Dharamshala; Kullu; Shimla- The Glen, Jakhu, Narkanda; Mandi-Nerchauk.

Substratum: On decaying angiospermic twigs.

Trametopsis Tomsovský Czech Mycol. 60(1):7, 2008.

Trametopsis cervina (Schwein.) Tomšovský, Czech Mycol. 60(1): 8 (2008) =*Coriolus cervinus* (Schwein.) Bondartsev 1953.

Distribution: H.P.: Shimla- Narkanda; Chamba-Dalhousie, Lover's walk, Baloon, Kangra-Dharamsala, Forsyth ganj.

Substratum: On decaying angiospermic log.

Trichaptum Murrill Bull. Torrey Bot. Club 31: 608, 1904.

Trichaptum abietinum (Dicks ex Fr.) Ryv., Norw. J. Bot. 19: 237, 1972.

Distribution: H.P.: Chamba-Dalhousie, Kalatope, Khajjiar, Lakkarmandi; Shimla- Narkanda; Kinnaur- Kalpa, Pang, Nallah; Kullu-Manali, Gulaba; Kangra-Dharamsala, Dharampur, Rasan, Yol.

Substratum: On decaying angiospermic stump.

Trichaptum byssogenum (Jungh.) Ryvarden, [as 'byssogenus'], Norw. J. Bot. 19(3-4): 237 (1972)=*Trichaptum venustum* (Berk.) G.H.Cunn., Bull. N.Z.Dep. Scient. Ind. Res. 164: 97, 1965.

Distribution: H.P.: Shimla- Chail, Chamba-Dalhousie, Banikhet, Jandrihat.

Substratum: Stumps of *Cedrus deodara* and *Quercus*.

Trichaptum fusco-violaceum (Ehrenb. ex. Fr.) Ryv., Norw. J. Bot. 19: 237, 1972.

Distribution: H.P.: Kangra-Dharamshala.

Substratum: On decaying *Pinus* log.

Trichaptum biforme (Fr.) Ryv., Norw. J. Bot. 19: 237, 1972.=*Trichaptum pargamenum* (Fr.) G.H.Cunn., Bull. N.Z.Dep. Scient. Ind. Res. 164: 100, 1965.

Distribution: H.P.: Shimla- Narkanda, Hattoo peak, The Glen; Chamba-Dalhousie, Jandrihat spring; Kullu-Manali, Gulaba.

Substratum: logs and stumps of *Quercus incana* and stumps of *Cedrus deodara*.

Tyromyces P. Karst. *Revue mycol.* 3(9):17, 1881.

Tyromyces lacteus (Fr.) Murrill, N. Amer. Fl. (New York) 9(1): 36 (1907) =*Postia lactea* (Fr.) Roy & De, Comb. Nov. Basionym: *Polyporus lacteus* Fr., Syst. Mycol. 1: 359, 1821.

Distribution: H.P.: Shimla; Chamba-Dalhousie, Kalatope.

Substratum: On decaying *Pinus* log.

Family- Xenasmataceae

Xenasmatella Oberw., Sydowia 19(1-6):28, 1996.

Xenasmatella vaga (Fr.) Stalpers, Stud. Mycol. 40: 37 (1996)=*Trechispora vaga* (Fr.) Liberta taxon 15: 319. 1966. = *Phlebia vaga* fr., Syst. Mycol. 1: 428. 1821.

Distribution: H.P.: Chamba Khajjiar.

Substratum: On bark under mixed forest.

Order- Russulales

Family Albatrellaceae

Albatrellus S.F. Gray, Nat. Arr. Brit. Pl. 1: 645, 1821.

Albatrellus canthrellus (Lloyd) Pouz, Česka Mykol. 26: 196, 1972.

Distribution: H.P.: Chamba-Dalhousie, Jandri Ghat.

Substratum: on soil among gymnospermous needles.

Albatrellus dispansus (Lloyd) Canf. & Gilb. Mycologia 63: 965, 1971.

Distribution: H.P.: Shimla- Tara Devi; Chamba-Dalhousie.

Substratum: On soil in mixed forest.

Family- Amylostereaceae

Amylostereum Boidin, Reveue Mycol. 23: 345. 1958.

Amylostereum chailletii (Pers.: Fr.) Boidin, Reveu Mycol. 23: 345. 1958.= *Thelephora chailletii* Pers. Fr., Elench. 1: 188. 1828.

Distribution: H.P.: Shimla-Mahasu, Narkanda, Bagi; Kullu- Kasole, Kothi; Shimla- Chadwick Falls; Chamba-Dalhousie- Jandrigat.

Substratum: On dead stump of *Cedrus deodar*, *Abies pindrow*.

Family Bondarzewiaceae

Heterobasidion Brefeld Unters. Gesamtgeb. Mykol. 8: 154, 1888.

Heterobasidion araucariae P.K. Buchanan, Mycotaxon 32(1): 325 (1988) = *Fomes annosus* (Fr.) Cooke var. *indicus* Wakef. Apud Hole in *Indian For.* 53, 437, 1927= *Heterobasidion annosum* var. *indicum* (Wakef.) Dhanda, *Indian Phytopath.* 33(3): 386, 1980.

Distribution: H.P.: Chamba-Dalhousie, Jandrigat, Kalatope, Khajjiar; Shimla- The glen, Kufri, Narkanda, Khadralla, Baghi, Rampur road; Kullu-Pulga, Manali, Jagat sukh.

Substratum: On *Picea morinda*, on decaying *Abies pindrow*, *Pinus excelsa* log

Heterobasidion insulare (Murrill) Ryvarden [as 'insularis'], Norw. JBot. 19: 237 (1972) = *Trametes insularis* Murr., Bull. Torr. Bot. Cl. 35:405, 1908.

Distribution: H.P.: Chamba-Dalhousie; Kangar-Dhramshala; Kullu; Shimla.

Substratum: On decaying *Pinus* stump.

Family Echinodontiaceae

Echinodontium Eill. & Ev., Bull. Torrey Bot. Club 27: 49. 1900.

Echinodontium japonicum Imazeki Jap. J. Bot. 11: 520. 1935.

Distribution: H.P.: Shimla-Mahasu; Chamba-Dalhousie.

Substratum: On bark of coniferous log.

Scotoderma (Berk.) Jülich, Proc. Kon. Ned. Akad. Wetensch. C77:149, 1974.

Scotoderma viride (Berk.) Jülich, Proc. K. Ned. Akad. Wet., Ser. C, Biol. Med. Sci. 77(2): 151 (1974)= *Coniophora viridis* (Berk.) Sacc., Sylloge Fungorum 6: 649.

Distribution: H.P.: Shimla-Chaupal.

Substratum: On log of *Cedrus deodara*.

Scytinostromella Parm. Consp. Syst. Cort. p.171, 1968.

Scytinostromella heterogenea (Bourd.& Galz.) Parm., Consp. syst. Cort. P.171, 1968 = *Peniophora heterogenea* Bourd.& Galz., Bull. Soc. Mycol. France 28: 393, 1913.

Distribution: H.P.: Kullu; Chamba-Dalhousie.

Substratum: on a decaying log.

Scytinostromella olivaceoalba (Bourdot & Galzin) Ginns & M.N.L. Lefebvre, Mycol. Mem. 19: 141 (1993)= *Confertobasidium olivaceoalbum* (Bourdot & Galzin) Jülich, Willdenowia, Beih. 7: 167 (1972).

Distribution: H.P.: Kullu; Chamba-Dalhousie.

Substratum: On dead stump of *Cedrus deodar*, *Abies pindrow*.

Xylobolus P. Karst. Meddel. Soc. Fauna Fl. Fenn. 6: 11, 1881., emend. Boidin, Revue Mycol. 23: 340-41. 1958.

Xylobolus frustulatus (Pers. : Fr.) Boidin, Revue Mycol. 23: 341. 1958.= *Thelephora frustulata* Pers. ex Fr., Syst. Mycol. 1: 445. 1821.

Distribution: H.P.: Kullu; Chamba-Dalhousie; Shimla.

Substratum: On stump of *Cedrus deodara*.

Xylobolus subpileatus (Berk. & Curt.) Boidin, Revue Mycol. 23: 341. 1958.= *Stereum subpileatus* Berk & Curt., Hook. J. Bot. And Kew Gard. misc. 1: 238. 1829.

Distribution: H.P.: Kullu; Chamba-Dalhousie; Shimla.

Substratum: On fallen log, On stump of *Quercus incana*.

Family -Gloeocystidiellaceae

Gloeocystidiellum Donk, Meded, Ned. Mycol. Ver. 18-20:156, 1931., emend Donk, *Fungus* 26: 8. 1956.

Gloeocystidiellum clavuligerum (Hohn. & Litsch.) Nakasone, *Mycotaxon* 14 (1): 320, 1982.- *Gloeocystidiellum clavuligerum* Hohn. & Litsch., sber. Akad. Wiss. Wien, Math.- naturw. Kl., Abt. 1 115: 1906.

Distribution: H.P.: Chamba-Dalhousie.

Substratum: On fallen stick of *Cedrus deodara*.

Gloeocystidiellum luteocystidium var. *brevisporum* Rattan, Bibliotheca Mycologica 60:103, 1977.

Distribution: H.P.: Chamba-Dalhousie, Dunera.

Substratum: Fallen twigs under angiospermic forest.

Gloeocystidiellum odontoides Khara H.S. Indian Phytopath. 41(1).1988.

Distribution: H.P.: Chamba-Dalhousie, Kalatope.

Substratum: fallen log of *Cedrus deodara*.

Gloeocystidiellum sulcatum (Rehill & Bakshi) Boidin, *Cah. Maboke* 4: 10. 1966.

Distribution: H.P.: Chamba-Dalhousie, Bakrota, Jandrigat, Banikhet, Kalatope, Khajjiar; Shimla-Kufri, Summer hill, Mashobra, Mahasu, Narkanda,

Bagi; Kullu- Pulga, Naggar, Jaggatsukh, Rohtang, Gojra..

Substratum: Stumps and logs of *Cedrus deodara*, fallen logs of *Abies pindrow*, logs and stumps under a mixed and coniferous forest.

Family-Hericiaceae

Dentipellis Donk, Persoonia, 2(2): 232, 1962.

Dentipellis leptodon (Mont.) Maas Geest., Persoonia 7(4): 558 1974.

Distribution: H.P.: Shimla-Mahasu, Narkanda, Dharanghati.

Substratum: Log under conifers and on bark of fallen logs.

Laxitextum Lentz em. Boidin, Revue Mycol. 23:341. 1958.

Laxitextum bicolor (Pers. ex Fr.) Lentz U.S. D.A. Agri. Monogr. 24: 19.1955.= *Thelephora bicolor* Pers., Syn. Meth. Fung. P. 568. 1801. Fries, Syst. Mycol. 1: 438.1821.

Distribution: H.P.: Chamba-Dalhousie, Dunera; Kullu; Shimla; Solan-Jaabali.

Substratum: Fallen twigs under angiospermic forest.

Laxitextum incrustatum Hjortstam & Ryvar den, Mycotaxon 13: 35, 1981.

Distribution: H.P.: Shimla, Manali.

Substratum: On bark of *P. roxburghii* & *Cedrus deodara*.

Family- Lachnocladiaceae

Asterostroma Masee, J. Linn. Soc. Bot. 25: 154. 1889.

Asterostroma cervicolor (Berk. & Curt.) Mass. J. Linn. Soc. Bot. 25: 154. 1889.= *Corticium cervicolor* Berk. & Curt., Grevillea 1: 179. 1891.

Distribution: H.P.: Shimla-Mahasu, Narkanda; Chamba- Dalhousie; Solan.

Substratum: On rotten stumps.

Asterostroma muscicola (Berk. & M.A. Curtis) Masee, J. Linn. Soc., Bot. 25(no. 170): 155 (1889), *Asterostroma musicolum* (Berk.& Curt.) Mass. J. Linn. Soc. Bot. 25: 154. 1889.= *Hymenochaete musicolum* Berk. & Curt., J. Linn. Soc. Bot. 10: 334.1868.

Distribution: H.P.: Shimla-Mahasu, Narkanda; CHamba- Dalhousie; Kullu; Mandi, Bilaspur.

Substratum: On log of *Abies pindrow*, dead twigs.

Dichostereum Pilát, Ann. Mycol., 24:1223, 1926

Dichostereum effuscatum (Cooke & Ellis) Boidin & Lanq., Mycotaxon 6(2): 284 (1977)=*Vararia effuscata* (Cooke & Ellis) Rog. & Jacks. Farlowia

1: 290. 1943.= *Corticium effuscatum* Cooke & Ellis, Grevillea 9: 113. 1881.

Distribution: Shimla, Manali.

Substratum: On stump of *C. deodara*.

Dichostereum pallescens (Schwein.) Boidin & Lanq., Mycotaxon 6(2): 284 (1977)= *Vararia pallescens* (Schw.) Rog. & Jacks. Farlowia 1: 309. 1943. =*Thelephora pallescens* Schw. Trans. Am. Phil. Soc. n.s. 4: 167. 1832.

Distribution: H.P.: Chamba; Kangara-Dharamshala; Kullu; Shimla;Solan, Sundernagar.

Substratum: On stump of *Quercus incana*, twigs.

Dichostereum rhodosporum (Wakef.) Boidin & Lanq., Mycotaxon 6(2): 284 (1977)=*Vararia rhodospora* (Wakef.) Cunn. Proc. Linn. Soc. NSW 77: 291. 1953.= *Asterostromella rhodospora* Wakef., Kew Bull. 372. 1915.

Distribution: H.P.: Chamba-Dalhaousie; Kullu; Shimla.

Substratum: On stump of *Cedrus deodara*.

Dichostereum kenyense Boidin & Lanq., Bull. Trimmest. Soc. mycol. Fr. 96: 394, 1981.

Distribution: Kinnaur, Keylong.

Substratum: On stump of *P. wallichiana*.

Scytinostroma Donk, Fungus 26: 19. 1956.

Scytinostroma albocinctum (Berk. & Br.) Boidin & Lanq., Kew bull. 31: 621, 1976.- *Stereum albocinctum* Berk. Broome, J. Linn. Soc., Bot. 14: 66, 1873.

Distribution: Manikaran road, Mandi.

Substratum: On angiospermic twigs.

Scytinostroma alutum Lanq. Bull. Mens. Soc. linn. Lyon, Num. Spec. 53: 187, 1984.

Distribution: Shimla, Mandi.

Substratum: stick and log of *C. deodara*.

Scytinostroma crassum (S.S. Rattan) Hjortstam, Mycotaxon 54: 192 (1995)= *Scytinostroma odoratum* forma *crassum* Rattan, Trans. Brit. Mycol. Soc. 63: 6. 1974.

Distribution: H.P: Chamba-Dalhousie; Kullu; Shimla.

Substratum: On wood of *Picea smithiana*.

Scytinostroma cystidiatum Boidin, Bulletin du Jardin Botanique de l'État, Bruxelles 30: 285, 1960.

Distribution: Mandi, Sundernagar, Manikaran.

Substratum: On angiospermic twigs.

Scytinostroma duriusculum (Berk. & Br.) Donk, Fungus 26: 20. 1956.= *Stereum duriusculum* Berk. & Br. J. Linn. Soc. Bot. 14: 66. 1873.

Distribution: H.P.: Shimla-Mahasu, Bagi; Kullu-Jalori, Pulga; Chamba-Dalhousie, Panjpulla, Lover's walk, Thali.
Substratum: On angiospermic twigs.

Scytinostroma ochroleucum (Bers. & Torrend.) Donk, Fungus 26: 20. 1956.= *Gloeocystidium ochroleucum* Bers. & Torrend., in Torrend., Broteria Ser. Bot. 11: 81. 1913.

Distribution: H.P.: Shimla-Mahasu, Bagi; Kullu-Jalori, Pulga; Chamba-Dalhousie; Solan, Manali.
Substratum: On coniferous stump.

Scytinostroma portentosum (Berk. & Curt.) Donk, Fungus 26: 20. 1956.= *Corticium portentosum* Berk. & Curt., in Berk., Grevillea 21: 3. 1873.

Distribution: H.P.: Kullu- Pulga, Bahu, Khanag; Shimla- Mahasu, Narkanda; Chamba- Sara.
Substratum: On stump under an angiospermic forests.

Vararia P.Karst., Kritisk of versigt af Finlands Basidsvampar:32, 1898.

Vararia brevispora S.S. Rattan, Bibliotheca Mycologica 60:142 1977.

Distribution: H.P.: Kullu.
Substratum: On rotten stump.

Vararia minidichophysa Boid. & Lanq., Bull. Soc. Mycol. France 91: 463, 1975.

Distribution: Manali, Dalhousie.
Substratum: On fallen sticks of *Q. leucotrichophora* and logs.

Vararia ochroleuca (Bourd. & Galz.) Donk Ncd. Kru. Arch. P. 79. 1930.

Distribution: H.P.: Chamba; Kullu; Shimla.
Substratum: logs and stumps of *Cedrus deodara*, stumps of *Abies pindrow*

Vararia rugosispora Boidin, Lanq. & Gilles, Cryptog. Mycol. 1: 328, 1980.

Distribution: H.P.: Solan, Shimla, Sirmour.
Substratum: On decaying stump of *Q. leucotrichophora*, *Cedrus deodara*.

Vararia vassilievae Parmasto, Eesti NSV Tead. Akad. Toimet Biol. Sear 14: 231. 1965.

Distribution: H.P.: Shimla- Chadwick falls, Mahasu, Khadralla; Kullu- Pulga, Rohtang; Chamba-Dalhousie, Kalatope.
Substratum: On stump of *A. pindrow*.

Family- Peniophoraceae

Gloiothele Bres., Anns mycol. 18 (1/3): 44 (1920)
Gloiothele citrina (Pers.) Ginns & G.W. Freeman, Biblthca. Mycol. 157: 55, 1994.-*Thelephora citrine* Pers., Mycol. Eur. 1: 136, 1822.

Distribution Kullu- Gojra; Shimla-Manali.
Substratum: On decaying stump of *C. deodara*.

Gloiothele lactescens (Berk.) Boidin C.R. Acad. Sci. Paris 233: 1668. 1951. = *Thelephora lactescens* Berk., in Smith, Engl. F1. 5(2) : 169. 1836.

Distribution: Chamba-Dalhousie, Dunera; Shimla.
Substratum: On stump of *Cedrus deodara*.

Metulodontia Parm., Consp. Syst. Cort. p. 117. 1968.

Metulodontia nivea (P. Karst.) Parm., Consp. Syst. Cort. : 118. 1968.= *Kneiffia nivea* P. Karst., Hedwigia 35: 173. 1896.

Distribution: H.P.: Chamba- Khijjiar, Dalhousie, Daikund; Shimla- Summer hill, Mahasu, Bagi.
Substratum: On stump under mixed forest, on stump of *Cedrus deodara*, *Quercus incana*.

Peniophora Cooke Grevillea 8: 20, 1879.

Peniophora aff. pusilla Jacks., Can. J. Res. 26C: 137. 1948.

Distribution: Shimla- Mahasu, Bagi.
Substratum: Stumps under a mixed forest.

Peniophora cinerea (Pers.) Cooke, Grevillea 8: 20. 1879.= *Corticium cinereum* Pers., Neues Mag. Bot. 1:111,1794.

Distribution: Kullu- Jaggat such, Pulga; Chamba-Khijjiar; Shimla; Sirmaur.
Substratum: Twigs under *Betula utilis*, fallen sticks under mixed forest, burnt angiospermic logs.

Peniophora fibulifera Thind & Rattan Mycologia 65: 1253. 1973.

Distribution: Shimla- Mahasu, Khadralla.
Substratum: On wood of *Cedrus deodara*.
Peniophora quercina (Pers. ex Fr.) Cooke, Grev. 8: 20. 1879.

Distribution: Kullu- Pulga.
Substratum: On bark under a mixed forest.

Peniophora pithya (Pers.) J. Erikss. Symb. Bot. Ups. 10 : 45, 1950.=*Thelephora pithya* Pers., Mycol. Eur. 1: 146, 1822.

Distribution: H.P.: Chamba; Shimla, Manali.
Substratum: On decaying stump of *C. deodara*.

Family-Russlanceae

Boidinia Stalpers & Hjortstam, Mycotaxon 14: 76, 1982.

Boidinia furfuraceum (Bres.) Donk, Fungus 26: 9, 1956.= *Hypochnus furfuraceus* Bres., fungi trid. 2: 97, 1900.

Distribution: Sundernagar, Mandi, Bilaspur.
Substratum: On decaying angiospermous wood.

Boidinia lacticolor (Bres.) Hjortstam & Ryvardein, in Hjortstam, *Mycotaxon* 28(1) : 19, 1987. = *Gloeocystidium lacticolor* Bres., *Hedwigia* 56 (4,5): 303, 1915.

Distribution: Manali, reserve forests, Hadimba.

Substratum: Bark & cut stump of *C. deodara*.

Family-Stereaceae

Acanthofungus Sheng H. Wu, Boidin & C.Y. Chien, *Mycotaxon*, 76:154, 2000.

Acanthofungus ahmadii (Boidin) Sheng H. Wu, Boidin & C.Y. Chien, *Mycotaxon* 76: 159 (2000) = *Xylobolus ahmadii* (Boidin) Boidin.

Distribution: H.P.: Shimla-Narkanda; Kullu, Manali.

Substratum: On log of *Cedrus deodara*.

Aleurodiscus Rabenh. ex Schroet. In Cohn, *Krypt.-Fl.* 3: 429. 1888.

Aleurodiscus amorphous (Pers.) Schröt., *Kryptogamenflora der Schweiz* 3 (1) : 429, 1888.-*Peziza amorpha* Pers., *Syn. Meth. Fung.* 2: 657, 1801.

Distribution: Manali, Shimla, Kinnaur.

Substratum: On decaying stump of *Cedrus deodara*, decaying wood.

Aleurodiscus lapponicus Litsch., *Annls mycol.* 42:11, 1944.

Distribution: H.P.: Kinnaur-Sangla, Kuppa.

Substratum: On decaying wood of *Cedrus deodara*.

Aleurodiscus lividocoeruleus (P.Karst) P.A. Lemke, *Can. J. Bot.* 42: 253, 1964=*Corticium lividocoeruleum* P. Karst., *Not. Sallsk. Fauna Fl. Fenn. Forh.* 5: 370, 1868.

Distribution: H.P.: Manali, Keylong, Shimla.

Substratum: decaying stump, twigs of *Cedrus deodara*.

Aleurodiscus oakesii (Berk. & Curt.) Hoehn. & Litsch., *Sitz. Kais. Akad. Wiss. Wien. Math.-Nat. Klasse* 116: 802. 1907.

Distribution: Nahan, Manikaran.

Substratum: On twigs under *Quercus incana*.

Aleurodiscus taxicola Thind & Rattan *Mycologia* 65: 1255. 1973.

Distribution: H.P.: Shimla-Mahasu, Narkanda.

Substratum: On bark of *Taxus baccata*.

Amylosporomyces S.S. Rattan *Bibliotheca Mycol.* 60: 245 (1977). 1977.

Amylosporomyces echinosporus S.S. Rattan [as 'echinosporum'], *Bibliotheca Mycol.* 60: 245 (1977).

Distribution: H.P.: Chamba-Dalhousie

Substratum: On stump under conifers.

Chaetoderma Parm., *Consp. Syst. Cort.* p. 86. 1968.

Chaetoderma luna (Rom.) Parm., *Consp. Syst. Cort.* p. 86. 1968.= *Peniophora luna* Rom. ex Rog. & Jack., *Farlowia* 1: 320. 1943.

Distribution: H.P.: Kullu- Khanag, Naggar, Jagat sukh, Manali; Chamba- Khijjiar, Dalhousie, Kalatope; Shimla-Mahasu, Narkanda, Bagi; Solan.

Substratum: On stump under conifers, on stump of *Abies pindrow*.

Conferticum Hallenb., *Mycotaxon* 11 (2): 447, 1980.

Conferticum ochraceum (Fr.) Hallenb., *Mycotaxon* 11 (2): 448, 1980.=*Thelephora ochracea* Fr., *Observ. Mycol.* 1: 151, 1815.

Distribution: H.P.: Solan; Shimla, Manali.

Substratum: On decaying gymnospermous wood.

Stereum Hill ex. Pers., *Neues Mag. Bot.* 1:110, 1794.

Stereum acanthophysatum Rehill & Bakshi, *Ind. For. Bull.* 242: 6. 1966.= *Stereum papollatosporum* Rehill & Bakshi, *Ind. For. Bull.* 242: 11. 1966.

Distribution: H.P.: Shimla-Narkanda.

Substratum: On dead stump of *Cedrus deodara*.

Stereum gausapatum (Fr.) Fr., *Hym. Eur.* P. 638. 1874.= *Thelephora gauspata* Fr. *Elench* 1: 171. 1828.

Distribution: H.P.: Shimla- The Glen, Jakhu, Chadwick falls, Summer hill, Taradevi; Kullu-Jalori; Chamba- Thali, Dalhousie, Jandrihat, Panjpulla, Lover's walk, Banikhet; Kangra-Dharamsala, Mcleod Ganj; Mandi.

Substratum: On dead stump of *Quercus incana*.

Stereum hirsutum (Willd.) Pers., *Observ. Mycol.* 2: 90, 1800.

Distribution: H.P.: Shimla-Mahasu, Bagi, Khadralla, Narkanda; Kullu- Bahu, Jalori, Rohtang, Gojra; Chamba-Dalhousie, Jandrihat, Lover's walk, Banikhet, Khijjiar.

Substratum: twigs, stump of *Quercus incana*, *Cedrus deodara*.

Stereum ostrea (Blume & Nees ex Fr.) Fr. *Epicr.* P. 547. 1838. = *Thelephora ostrea* Blume & Nees ex Fr., *Elench* 1: 175. 1828. = *Stereum fasciatum* (Schw.) Fr. *Epicr.* 546. 1838.= *Stereum lobatum* (Kuntz.) Fr., *Epicr.* 547. 1838.

Distribution: H.P.: Chamba-Dalhousie; Shimla-Narkanda, Khadralla.

Substratum: On dead stump of *Quercus incana*.

Stereum rugosum Pers. ex Fr. *Roemer Neus Mag. Bot.* 1: 110. 1794. *Fries, Epicr. Syst. Mycol.* P. 552. 1838.

Distribution: H.P.: Shimla-Narkanda.

Substratum: On stump of Oak.

Stereum sanguinolentum (Alb. & Schw.) Fr. Epicr. P. 549. 1838.= *Thelephora sanguinolenta* alb. & Schw., Consp. Fung. P. 274-75. 1805.

Distribution: H.P.: Chamba-Dalhousie, Krenulu falls, Kalatope, Khijjiar, Sara; Kangara-Dharamsala, Mcleod Ganj; Shimla- Kufri, The Glen.

Substratum: dead stump, twigs of *Cedrus deodara*.

Stereum subtmentosum Pouzar, *Česká Mycol.* 18:147, 1964.

Distribution: H.P.: Shimla.

Substratum: On dead wood of *Cedrus deodar*.

Family- Thelephoraceae

Amaurodon J. Schröt. Krypt. -Fl. Schlesien 3-1(4):4611888.

Amaurodon viridis (Alb. & Schwein.) J. Schröt., in Cohn, Krypt.-Fl. Schlesien (Breslau) 3.1(25-32): 461 (1888) [1889]=*Tomentella chlorina* (Mass.) Cunn. *Proc. Linn. Soc. NSW* 77: 279. 1953.

Distribution: H.P.: Mahasu- Narkanda; Kullu-Soja, Gojra, Jaggat sukh, Rohtang; Chamba-Khijjiar, Dalhousie, Kalatope, Manali.

Substratum: Wood, stumps and logs of conifers, logs of *Picea smithiana* and *Abies pindrow*, bark and slash of *Abies pindrow*.

Pseudotomentella Svrček *Ceska' Mykol.* 12(2):67 1958

Pseudotomentella atrofusca Larsen, Bull. Torrey Bot. Club 98: 39, 1971.

Distribution: Chamba-Banikhet.

Substratum: On decaying *Lyonia ovalifolia*.

Pseudotomentella tristis (Karst.) Larsen.

Distribution: Chamba-Dalhousie, Bilaspur.

Substratum: angiospermic stick.

Pseudotomentella mucidula (Karst.) Svrček *Ceska Mykol.* 12: 68. 1958.= *Hypochnus mucidulus* Karst., *Bidr. Kann. Finl. Nat. Folk* 37:163. 1882.

Distribution: H.P.: Shimla-Khadrala.

Substratum: On coniferous slash.

Thelephora Ehrh. ex Willd. Willdenow C.L. Von Fl. Berol. Prodr.:397. 1787.

Thelephora atra Weinm., Hym. à Gast. Imp. Ross. Obs. (Petropoli): 636 (1836)=*Tomentella atramentaria* Rostr., Bot. Tidsskr. 19: 41, 1894.

Distribution: H.P.: Chamba-Kalatope.

Substratum: Decaying gymnospermic stump.

Tomentella Pers. ex. Pat. (nom. Cons.) , Hym. Eur. P. 154. 1887.

Tomentella albomarginata (Bourdot & Galzin) M.P. Christ., *Mycologia* 62: 134, 1960.= *Tomentella spongia* f. *Albomarginata* Bourdot & Galzin, *Bull. Trimmest. Soc. Mycol. Fe.* 40: 154, 1924.

Distribution: H.P.: Shimla-Tara Devi, Manali.

Substratum: On fallen gymnospermous stick.

Tomentella atramentaria Rostr., *Bot. Tidsskr.* 19: 41, 1894.

Distribution: H.P.: Manali, Manikaran.

Substratum: Dead wood twigs.

Tomentella badia (Link) Stalpers, *Revue Mycol.*, Paris 39(2): 98 (1975)=*Tomentella fimbriata* Christ. *Dansk Bot. Ark.* 19: 258. 1960.

Distribution: H.P.: Shimla- Narkanda; Kullu; Chamba-Dalhaousie.

Substratum: On slash of *Pinus excels*.

Tomentella bicolor (G.F. Atk. & Burt) Bourdot & Galz., Bull. trimmest. Soc. Mycol. France 40(1): 132, 1924. =*Hypochnus bicolour* Atk. & Burt., *Ann. Missouri, Bot. Gard.* 3: 229, 1916.

Distribution: H.P.: Chamba- Dalhousie; Keylong.

Substratum: On decaying twigs and wood.

Tomentella botryoides (Schw.) Bourd. & Galz. Bull. Soc. Mycol.Fr. 40: 159. 1924.

Distribution: H.P.: Mahasu- Narkanda, Bagi.

Substratum: logs of *Abies pindrow* and bark under conifers.

Tomentella brevispina (Bourd. & Galz.) Larsen, *Mycologia* 62: 136, 1970.= *Tomentella spongiosa*(Schw.: Fr.) Bourd. & Galz. Var. *brevispora* Bourd. & Galz. *Soc. Mycol. France* 40: 154, 1924.

Distribution: H.P.: Ksauli, Shimla- Tara Devi.

Substratum: dead twigs.

Tomentella bryophila (Pers.) Larsen *Mycologia Mem.* 4: 51. 1974=*Tomentella pallidofulva* (Peck) Litsch. *Ost. Bot. Zeitschr.* 88: 131. 1939.

Distribution: H.P.: Chamba-Dalhousie, Banikhet; Shimla- Mahasu, Narkanda.

Substratum: On leaves of *Quercus incana* and logs under confers.

Tomentella calcicola (Bourd. & Galz.) M.J. Lars., *Taxon* 16:511, 1967. = *Caldesiella ferruginosa* var. *Calcicola* Bourd. & Galz., Hym. France p. 471.1928.

Distribution: H.P.: Shimla- Bagi

Substratum: On coniferous slash

Tomentella clavigera Litsch. In Svrcce Sydowia 14: 192. 1960.

Distribution: H.P.: Solan-Mihani.

Substratum: On a decayed angiospermic twigs.

Tomentella coerulea (Bres.) Hoehn. & Litsch., Wiesner Festschrift(Wein.):77, 1908.

Distribution: H.P.: Kullu- Pulga.

Substratum: Bark of *Cedrus deodara*.

Tomentella crinalis (Fr.) Larsen, Taxon 16: 511. 1967.

Distribution: H.P.: Kullu- Pulga, Gojra: Shimla-Mahasu, Narkanda.

Substratum: angiospermic wood, decaying angiospermic stumps and stumps under mixed forest.

Tomentella cinerascens (Karst.) Hoehn. & Litsch., Sber Akad. Wiss. Wein., Math- naturw. Klarse Abt. 1,15: 1570. 1906.

Distribution: H.P.: Shimla- Mahasu, Khadralla.

Substratum: Stump of *Abies pindrow*.

Tomentella ellisii (Sacc.) Jülich & Stalpers, Verh. K. ned. Akad. Wet., 2 Sectie 74: 236 (1980)=*Tomentella ochracea* (Sacc.) Larsen *Mycologia Mem.* 4: 73. 1974.

Distribution: H.P.: Shimla-Mahasu, Narkanda.

Substratum: Coniferous log

Tomentella ferruginella Bourd. & Galz. *Bull. Soc. Mycol. France* 40: 157. 1924.

Distribution: H.P.: Chamba- Dalhousie, Banikhet; Kullu; Shimla.

Substratum: leaves of *Quercus incana*.

Tomentella ferruginea (Pers.) Pat., Hyménomyc. Eur. (Paris): 154,1887.

Distribution: H.P.: Shimla-Mahasu, Narkanda; Chamba- Khijjiar; Kullu.

Substratum: Bark of *Cedrus deodara*, bark under mixed forest and coniferous trees.

Tomentella galzinii Bourd., in Bourd. & Galzin, *Bull. Soc. Mycol. France* 40: 143, 1924.

Distribution: H.P.: Chamba-Khajjiar; Solan.

Substratum: Dead wood.

Tomentella griseoumbrina Litsch., apud. Land. & Nannf. Fungi Exs. Suec. Fasc. VII & VIII, no. 357, Uppsala 1936.

Distribution: H.P.: Mandi, Sundernagar

Substratum: twigs and fallen branches.

Tomentella griseoviolacea Litsch., *Annls mycol.* 39: 375, 1941.

Distribution: H.P.: Solan-Mihani.

Substratum: On decaying angiospermic wood.

Tomentella himalayana S.S.Rattan, *Bibliotheca Mycologica* 60:54, 1977.

Distribution: H.P.: Shimla-Mahasu, Khadralla, Narkanda.

Substratum: slash under conifers and slash of *Abies pindrow*.

Tomentella indica S.S.Rattan, *Bibliotheca Mycologica* 60:62, 1977.

Distribution: H.P.: Kullu- Naggar, Jaggat sukh; Shimla-Mahasu, Bagi, Chamba-Dalhousie, Banikhet, Kalatope.

Substratum: Bark of *Abies pindrow* and *Picea smithiana*, leaves of *Quercus incana*, logs under a mixed forest, stumps of *Cedrus deodara*.

Tomentella kalatopii Dhingra & Malka 1994.in (eds.) T.A.Sharma, S.S.Saini, M.L. Trivedi & M.Sharma North-West Himalayan Theleporaceae (Basidiomycetes) Genus *Tomentella* from Dalhousie Hills *Current Researches in Plant Sciences* 43-56.

Distribution: H.P.: Chamba- Kalatope, Shimla.

Substratum: Decaying gymnospermic stump/twigs.

Tomentella lapida (Pers.) Stalpers, [as 'lapidum'], *Stud. Mycol.* 24: 65 (1984)=*Tomentella ramosissima* (Berk. & Curt.) Wakef., *Mycologia* 52: 927, 1960=*Zygodemus ramosissimus* Berk. & Curt., *Grevillea* 3: 145, 1875=*Tomentella fuliginea* (Burt) Bourd. & Galz. *Bull. Soc. Mycol. Fr.* 40: 153.1924.

Distribution: H.P.: Kullu- Naggar, Jaggat sukh; Shimla-Mahasu, Bagi; Chamba-Dalhousie, Banikhet.

Substratum: On bark and logs under mixed forest, On bark of *Abies pindrow* and *Picea smithiana*, On leaves of *Quercus incana*.

Tomentella lateritia Pat., *Cat. Rais. Pl. Cellul. Tunisie* (Paris): 63 (1897).

Distribution: H.P.: Chamba, Solan, Shimla

Substratum: Gymnospermic twigs.

Tomentella microspora (Karst.) Hoehn. & Litsch. *Sitzung. Kais. Akad. Wiss. Wein. Math.- Naturw. Klasse* 115: 1571. 1906.

Distribution: H.P.: Shimla-Mahasu, Narkanda, Tara Devi..

Substratum: On bark of conifers.

Tomentella muricata (Ell. & Ev.) Wakef., *Mycologia* 52: 924, 1962. = *Zygodemus muricatus* Ell. & Ev., *Bull. Torrey Bot. Club* 11: 17, 1884.

Distribution: H.P.: Manali, Kinnaur.

Substratum: Decaying angiospermic log.

Tomentella olivascens (Berk. & M.A. Curtis) Bourdot & Galzin, Hyménomyc. de France (Sceaux): 477 (1928)= *Zygodesmus olivascens* Berk. & Curt., Grevillea

Distribution: H.P.: Dalhousie-P.U. near Guest House.

Substratum: Decaying gymnospermic stump.

Tomentella pilosa (Burt) Bourd. & Galz. Bull. Soc. Mycol. Fr. 40: (2): 160 1924.

Distribution: H.P.: Shimla-Mahasu, Narkanda, Khadralla; Chamba- Dalhousie, Kalatope; Solan.

Substratum: On bark under coniferous forest and bark of *Abies pindrow*.

Tomentella puberula Bourd. & Galz., Bull. Soc. Mycol. France 40(2) 150, 1924.

Distribution: H.P.: Chamba, Kullu, Manali.

Substratum: Decaying gymnospermic stump.

Tomentella punicea (Alb. & Schwein.) J. Schröt., in Cohn, Krypt.-Fl. Schlesien (Breslau) 3.1(25–32): 420 (1888).

Distribution: H.P.: Dalhousie, Panjpulla.

Substratum: stumps/twigs under mixed forest.

Tomentella pyrolae (Ellis & Halst.) M. J. Larsen, Tech. Publ. N. Y. St. Univ. Coll. For. 93: 105, 1968.= *Zygodesmus pyrolae* Ellis & Halst., J. Mycol. 6(1); 34, 1890.

Distribution: H.P.: Shimla, Manali, Keylong.

Substratum: On decaying gymnospermic wood.

Tomentella radiosa (P. Karst.) Rick, Brotéria, sér. 3 2: 79 (1934)=*Tomentella cladii* Wakef., Trans. Brit. Mycol. Soc. 53: 179, 1969.

Distribution: H.P.: Shimla-Tara Devi.

Substratum: Decaying gymnospermic stump.

Tomentella scobinella Cunn., Trans. Roy. Soc. New. Zeal. 84: 485, 1957.

Distribution: H.P.: Manali, Keylong.

Substratum: On angiospermic wood.

Tomentella stuposa (Link) Stalpers, Stud. Mycol. 24: 86 (1984)=*Tomentella ruttneri* Ltsch. Bull. Soc. Mycol. Fr. 49: 67. 1933. *Tomentella bresadolae* (Brinkm. Bresadola) Bourd. & Galz., Bull. Soc. Mycol. France 40, 155, 1924=*Hypochnus bresadola* Brinkm. In Bresadola, Ann. Mycol. 1, 10, 1903.

Distribution: H.P.: Chamba-Dalhousie; Shimla-Mahasu, Narkanda; Nahan, Manali.

Substratum: On a decayed angiospermic twigs, On Bark of *Abies pindrow*, On bark and slash of conifers.

Tomentella subclavigera Litsch., Bull. Soc. Mycol. France 49: 57, 1933.

Distribution: H.P.: Sirmour, Manali.

Substratum: Decayed angiospermic twigs.

Tomentella subcorticioides S.S. Rattan, Bibliotheca Mycol. 60: 53 (1977).

Distribution: H.P.: Shimla-Mahasu, Narkanda.

Substratum: On slash of *Abies pindrow*.

Tomentella terrestris (Berk. & Broome) M.J. Larsen, Mycol. Mem. 4: 105, 1974.= *Zygodesmus terrestris* Berk. & Broome, Ann. Mag. Nat. Hist., Ser. 7: 130, 1881.

Distribution: H.P.: Solan-Mihani.

Substratum: On fallen angiospermous bark.

Tomentella testaceogilva Bourdot & Galzin, Bull. Trimmest. Soc. mycol. Fr. 40 (2): 149, 1924.

Distribution: H.P.: Solan.

Substratum: On bark of *R. arboretum*.

Tomentella umbrinospora M.J. Larsen, Adapt. Antarct. Ecosys. 93: 61 (1963)

Distribution: H.P.: Shimla-Mahasu, Narkanda.

Substratum: logs under a coniferous forest.

Tomentella unicospora Dhingra & Malka 1994.

Distribution: H.P.: Chamba.

Substratum: On gymnospermic stump.

Tomentella varicolor Malencon G., Bull. Soc. Bot. France 99: 51, 1992.

Distribution: H.P.: Chamba- Dalhousie.

Substratum: On decaying gymnospermous wood.

Tomentella viridis (Berk.) Cunn., New Zealand Dept. Sci. Ind. Res. Bull. 145: 239. 1963.

Distribution: H.P.: Shimla-Mahasu, Narkanda, Hattoo peak, Khadralla; Kullu- Soja, Gojra, Jagat sukh, Rohtang, Chamba- Dalhousie Kalatope.

Substratum: Coniferous stumps, logs and wood, logs of *Picea smithiana* and *Abies pindrow*.

Order-Trechisporales

Family-Hydnodontaceae

Brevicellicium KH.Larss. & Hjortst., Mycotaxon 7: 117, 1978.

Brevicellicium olivascens(Bres.) KH.Larss.& Hjortst., Mycotaxon 7:117, 1978. – *Odontia olivascens* Bres., Fungi Trid. 2, p.36, 1892.

Distribution: Kullu, Manikaran.

Substratum: On a decaying angiospermic log.

Fibricellum J. Erikss. & Ryvarden. The Cort. of N. Eu. 3:373, 1975.

Fibricellum silvae-ryae Erikss. & Ryv., Cort. N. Europ III: 375, 1975.

Distribution: H.P.: Chamba-Khajjiar.

Substratum: Mixed forest above forest guest house, *Cedrus* needles and gymnospermic sticks.

Sistotremastrum J. Erikss., Symb. bot. upsal. 16(no. 1): 62 (1958).

Sistotremastrum niveocreum (Höhn. & Litsch.) J. Erikss., Symb. bot. upsal. 16(1): 62 (1958).

Distribution: H.P.: Kullu; Chamba, Manali.

Substratum: On a decaying angiospermic stump.

Subulicystidium Parmasto, Consp. Syst. Cort. p. 120.1968.

Subulicystidium longisporum (Pat.) Parm., Consp. Syst. Cort. p. 121.1968.= *Hypochnus longisporus* Pat., J. Bot. Paris 8: 221. 1894.

Distribution: H.P.: Chamba; Kullu; Shimla; Kinnaur, Keylong.

Substratum: On stump of *Cedrus deodar*, *Shorea robusta*.

Trechispora Karst., Hedwigia 29: 147. 1890.

Trechispora alnicola (Bourd. & Galz.) Liberta, Taxon 15. 318.1966.= *Grandinia alnicola* Bourd. & Galz., Bull. Soc. Mycol. Fr. 30: 254.1914.

Distribution: H.P.: Shimla-Mahasu, Narkanda; Chamba; Mandi, Mandi.

Substratum: On stump of *Abies pindrow*, *Cedrus deodara*.

Trechispora candidissima (Schwein.) Bondartsev & Singer, Anns mycol. 39(1): 48 (1941)=*Poria candidissima* (Schwein.) Cooke 1886.

Distribution: H.P.: Shimla, Kullu- Pulga.

Substratum: Semi burnt logs of *Pinus excelsa* and gymnospermic stumps.

Trechispora confine (Bourd. & Galzin) Liberta, Taxon 15: 318. 1966.

Distribution: H.P.: Shimla- Mahasu, Khadrana.

Substratum: stump of *Abies pindrow*.

Trechispora farinacea (Pers.) Liberta, Taxon 15:318. 1966. = *Hydnum farinaceum* Pers. ex Fr., Syst. Mycol. 1: 419. 1821.

Distribution: H.P.: Chamba –Khajjiar; Kullu; Shimla; Solan.

Substratum: On coniferous stump.

Trechispora fastidiosa (Pers.) Liberta, Taxon 15: 318, 1966. = *Merisma fastidiosum* Pers., Comm. Fung. Clav.: 97, 1797.

Distribution: H.P.: Manali, Shimla.

Substratum: On log of *C. deodara*.

Trechispora microspora (Karst.) Liberta, Taxon 15: 319, 1966.

Distribution: H.P.:Chamba- Khijjiar.

Substratum: On decaying angiospermic log.

Trechispora molluscas (Pers.: Fr.) Liberta, Can. J. Bot. 51: 1878. 1973.= *Polyporus mollusca* Pers.: Fr., Syst. Mycol. 1: 384. 1821.

Distribution: H.P.: Kullu.

Substratum: On angiospermic stump.

Trechispora praefocata (Bourd. & Galzin) Liberta, Taxon 15(8) : 319, 1966.= *Corticium sphaerosporum* subsp. *Praefocatum* Bourdot & Galzin, *Hymenomyc. de France*: 233, 1928.

Distribution: H.P.: Mandi-Sundernagar

Substratum: twigs of angiospermous tree.

RESULTS AND DISCUSSION

Three hundred fifty five species of wood rotting fungi spreading over one hundred thirty three genera and thirty seven families, distributed in different phytogeographical regions of Himachal Pradesh viz.: Chamba, Kangra, Kinnaur, Kullu, Shimla, Solan, Bilaspur and Mandi are listed. These species of fungi belongs to the following families: Amylocorticiaceae, Pterulaceae, Stephanosporaceae, Cyphellaceae, Atheliaceae, Coniophoraceae, Hygrophoropsidaceae, Serpulaceae, Botrybasidiaceae, Ceratobasidiaceae, Clavulinaceae, Hydnaceae, Corticiaceae, Gloeophyllaceae, Lentariaceae, Hymenochaetaceae, Rickenellaceae, Schizoporaceae, Cystostereaceae, Fomitopsidaceae, Ganodermitaceae, Meripileaceae, Phanerochaetaceae, Polyporaceae, Albatrellaceae, Amylostereaceae, Bondarzewiaceae, Echinodontiaceae, Gloecystidiellaceae, Hericiaceae, Lachnocladiaceae, Peniophoraceae, Russulaceae, Stereaceae, Thelephoraceae, Hydnodontaceae.

The study reveals that Polyporaceae is the largest and most wide spread family in the state with 21 genera and 44 species, followed by Thelephoraceae (4 genera and 46 species), Meruliaceae (15 genera and 40 species), Hymenochaetaceae (10 genera and 28 species), which are the dominant families. *Tomentella* of Thelephoraceae is the largest genus having 41 species.

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