

DISTRIBUTION OF POLYPORACEAE IN WEST PAKISTAN

by

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Introductions:- Polyporaceae is one of the largest groups of fungi. It plays an extremely destructive role in forest wood. This destructive activity of wood-decay fungi was unknown until late in the nineteenth century when Robert Harting established through an important member of Polyporaceae i. e. *Fomes* sp., relation between hyphae, wood-decay and sporophore (3,4). Since then Polyporaceae have been considered as the cause of enormous losses in timber.

The members of Polyporaceae are cosmopolitan in distribution. In West Pakistan they are found everywhere from hills to plains. Some members are quite fidel in distribution in relation to their climate, a fact which cannot be overlooked still they cannot be strictly restricted to their climatic areas.

Some members of Polyporaceae are parasitic while others are saprophytic. Saprophytic Polyporaceae play a highly beneficial role in wood waste disposal, while parasitic members attack standing timber causing rot. The saprophytic fungi under suitable conditions e.g., in case of injury to the tree may take over as parasitic organisms.

The taxonomy of Polyporaceae is fully known, but systematic study of their distribution seems not to have been made in West Pakistan. In the present paper attempt has been made to put together scattered informations on distribution of Polyporaceae from previous records as well as our own collections.

Distribution:—

1. *Bjerkandera adusta* (Willd. ex Fr.) Karst.
Syn. *Polyporus adusta* Willd. ex Fr.
On decayed stumps of *Juglans regia*, *Aesculus indica*, Nathia Gali, Kalam, Shogran, *Morus alba*, Changamanga, *Quercus dilatata*, Swat.
2. *Boletopsis leucomelas* (Pers. ex Fr.) Fayod.
Syn. *Polyporus leucomelas* Pers. ex Fr.
On the ground, Mingora, Bahrain (Swat).

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3. **Coriolus pubescens** (Schum. ex Fr.) Quel.
Syn. *Polystictus pubescens* Scum. ex Fr.
On logs of *Dalbergia sissoo*, *Morus alba*, Changamanga.
4. **Coriolus hirsutus** (Wulf. ex Fr.) Quel.
Syn. *Polystictus hirsutus* (Wulf. ex Fr.) Fr.
On logs of *Acacia nilotica*, *Morus alba*, *Dalbergia sissoo*, *Quercus sp.*, *Picea morinda*, Lahore, Shorkot, Murree.
5. **Coriolus proteus** (Berk.) Ahmad
Syn. *Polystictus proteus* Hook.
On logs of *Dalbergia sissoo*, *Morus alba*, Changamanga, Sangla Hill.
6. **Coriolus versicolor** (L. ex Fr.) Quel.
Syn. *Polystictus versiclor* (L. ex Fr.) Sacc.
On stumps and logs of deciduous trees, on *Abies pindrow*, *Cedrus deodara*, Murree, Shogran, Kalam, Miandum.
7. **Coriolus zonatus** (Fr.) Muel.
Syn. *Polystictus zonatus* (Fr.) Sacc.
On stumps of deciduous trees, Murree, Kalam.
8. **Coriolus tephroleucus** (Berk.) Bondratz
Syn. *Polystictus tephroleucus* Berk.
On logs of deciduous trees, Naran, *Betula utilis*, Kalam, *Picea morinda*, Changla Gali.
9. **Deadalia flavida** Lev.
On deciduous trees Lahore, Changa Manga, Sangla Hill, Sialkot.
10. **Favolus brasiliensis** Fr.
On stumps and logs of *Dalbergia sissoo*, Shorkot, Lahore, Sialkot.
11. **Funalia leonina** (Kl.) Pat.
Syn. *Polystictus leoninus* Kl.
On living *Mangifera indica*, Lahore, Zafarwal (Sialkot).
12. **Fomitopsis annosus** (Wakef).
Syn. *Fomes annosus* (Fr.) Cke.
On trunk of *Pinus roxburghii*, Ghora Gali, Panjar, Dadar, *Cedrus deodara*, *Pinus wallichiana*, on roots of *Picea morinda*, Sharan, Nathia Gali.

13. **Fomitopsis rosea** (A. and S. ex Fr.) Karst.
Syn. *Fomes reseau* (A. and S. ex Fr.) Cke.
On *Abies pindrow*, *Picea morinda*, Kalam, Sharan.
14. **Fomitopsis pinicola** (Sw. ex Fr.) Karst.
Syn. *Fomes pinicola* (Sw. ex Fr.) Cke.
On *Pinus wallichiana*, *Abies pindrow*, Murree, Shogran, Sharan.
15. **Fomes formentarius** (L. ex Fr.) Kicks.
On living *Juglans regia*, Nathia Gali, Sharan, Kalam, Chirpai (Dir), Badal, on *Fraxinus* sp., Banjosa, *Populus alba*, *Populus ciliata*, *Populus nigra*, *Quercus* sp., Muree, Abbottabad, Azad Kashmir.
16. **Ganoderma applanatum** (Pers. ex S. F. Gray) Pat.
On living trees of *Dalbergia sissoo*, *Morus alba* very common in all irrigated plantations, *Acacia modesta*, Kalachitta (Campbellpur), *Salix* spp., *Pistacia* sp., Murree.
17. **Ganoderma lucidum** (Leyss. ex Fr.) Karst.
At the base of deciduous trees through-out the plains, *Pinus wallichiana*, *Pinus roxburghii*, *Quercus* sp., *Populus* sp., Murree, Swat.
18. **Ganoderma flexipes** Pat.
On buried wood, Burban, Bara Gali, Sharan, Murree, Kalam.
19. **Ganoderma collossus** (Fr.) Bose.
On stumps of *Bambusa* sp., Lahore., Changamanga.
20. **Gloeophyllum striatum** (Sow. ex Fr.) Murr.
Syn. *Lenzites striata* Sow. ex Fr.
On logs of *Pinus roxburghii* Ghora Gali, Marghzar (Swat), on logs of the other conifers, Kalam, Murree, Shogran.
21. **Gloeophyllum sepiaria** (Wulf. ex Fr.) Karst.
Syn. *Lenzites sepiaria* Wulf. ex Fr.
On stumps of *Pinus roxburghii*, Panjar, Ghoon (Rawalpindi), on logs of deciduous trees, Murree.
22. **Hirschioporus abietinae** (Dicks. ex Fr.) Fr.
Syn. *Polystictus abietinus* (Dicks. ex Fr.) Fr.
On coniferous wood, Murree, Kalam. *Quercus* sp., Patriata (Murree).

23. **Irpex flavus** Koltz
On logs of *Dalbergia sissoo*, *Morus alba*, Changa Manga, Guttwala (Lpy).
Daphar (Gujrat), Kundian, Hyderabad, Nawabshah.
24. **Lenzites platyphylla** Lev.
Syn. *Lenzites adusta* Mass.
On logs of *Dalbergia sissoo*, *Morus alba*, Changa Manga, *Abies pindrow*,
Aesculus indica, Kalam.
25. **Oxyporus populinus** (Schum. ex Fr.) Cke.
Syn. *Fomes populinus* (Schum. ex Fr.) Cke.
On wood of deciduous trees, Changla Gali, Murree.
26. **Polyporus biennis** (Bull. ex Fr.) Fr.
On stumps of *Dalbergia sissoo*, *Morus alba*, Lahore, on some deciduous
trees., Sharan.
27. **Polyporus gramocephallus** Berk.
On living tree of *Cordia myxa*, Shorkot, Zafarwall (Sialkot);
Dalbergia sissoo, Changa Manga.
28. **Polyporus friabilis** Bose.
On ground & among leaf bases of *Saccharum munja*, Lahore, Sangla
Hill, Chiniot.
29. **Polyporus squamosus** Hud. ex Fr.
On living and dead trees of *Juglans regia*, *Aesculus indica*, *Populus*
ciliata, Shogran, Kalam, Changla Gali.
30. **Polyporus vari-us** Pers. ex Fr.
On logs of *Cedrus deodara*, *Pinus wallichiana* and other decayed coniferous
wood, Changla Gali, Muzaffarabad.
31. **Polyporus arcularius** Batsch. ex Fr.
On fallen branches, Shogran, Saifulmaluk, Gabral (Swat).
32. **Polyporus umbellatus** Pers. ex Fr.
On ground, Changla Gali, around the stumps, Chikar (Muzaffarabad).
33. **Polyporus sulphureus** Bull. ex Fr.
At the base of *Quercus dilatata*, Murree, Changla Gali, Sharan.

34. **Polyporus brumalis** Pers. ex Fr.
On fallen branches, Naran (Kaghan Valley).
35. **Poria paradoxa** Schrad. ex Fr.
Syn. *Schizopora paradoxa* (Schrad. ex Fr.) Donk.
On branches of *Morus abla*, Changa Manga, Lahore.
36. **Poria ravenlea** Berk.
On leaves of *Phoenix dactylifera*, Lahore.
37. **Pycnoporellus fulgens** (Fr.) Donk.
Syn. *Polyporus fibrillosus* Karst.
On logs of *Pinus wallichiana*, Sharan, Murree.
38. **Pyrofomes demidoffii** (Lev) Kotl. and Pouz.
Syn. *Fomes demidoffii* (Lev.) Cke.
On living *Juniperus polycarpus*, Ziarat.
39. **Pycnosporus sanguineus** (L. ex Fr.) Murr.
Syn. *Polystictus sanguineus* L. ex Fr.
On logs of *Betula utilis*, upper Kalam, *Aesculus* sp. Kaghan.
40. **Trametes lactinia** Berk.
On logs of *Morus alba*, *Dalbergia sissoo*, Changa Manga, Gujrat, common in irrigated plantations, *Pinus roxburghii*, Panjar, Murree, Swat.
41. **Trametes cingulata** Berk.
On logs of *Morus alba*, *Dalbergia sissoo*, Changa Manga, Zaffarwal (Sialkot) Kundian.
42. **Trametes corrugata** (Pers. ex Fr.) Bers.
On logs of *Dalbergia sissoo*, *Morus alba*, Changa Manga very common, Zafarwal, (Sialkot), Daphar (Gujrat).
43. **Trametes roseola** Pat.
On logs of *Acacia nilotica*, Shorkot, Sialkot.
44. **Trametes suaveolens** (L. ex Fr.) Fr.
On the deciduous trees, Ghora Gali, Murree, Sharan.
45. **Trametes dickinsii** Berk.
On logs of deciduous trees, Muzaffarabad, *Pinus wallichiana*, *Quercus* sp., Murree, Swat.

46. *Trametes incana* Berk.
On logs of deciduous trees, Murree, *Quercus* sp. Swat.
47. *Trametes incerta* (Curr.) Cke.
On dead wood, Murree.
48. *Tyromyces gollanii* (Mass.) Ahmad
Syn. *Daedalea gollanii* Mass.
On stumps of deciduous trees, Patriata, Bara Gali, Nathia Gali, Changla Gali, *Quercus* sp., Kalam.
49. *Tyromyces candidulus* (Lev.) Ahmad
Syn. *Polyporus candidulus* Lev.
On stump of *Pinus wallichiana*, *Juglans regia*, Murree, Sharan.
50. *Tyromyces mollis* (Pers. ex Fr.) Kotl. & Pouz.
On logs of *Pinus wallichiana*, *Cedrus deodara*, Murree Hills, Sharan.
51. *Tyromyces elatinus* (Berk.) Ahmad
Syn. *Polyporus elatinus* Berk.
On logs of coniferous trees, Kalam.
52. *Tyromyces stipticus* (Pers. ex Fr.) Kotl. & Pouz.
Syn. *Polyporus stipticus* Pers. ex Fr.
On logs of *Picea morinda*, Kalam.

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