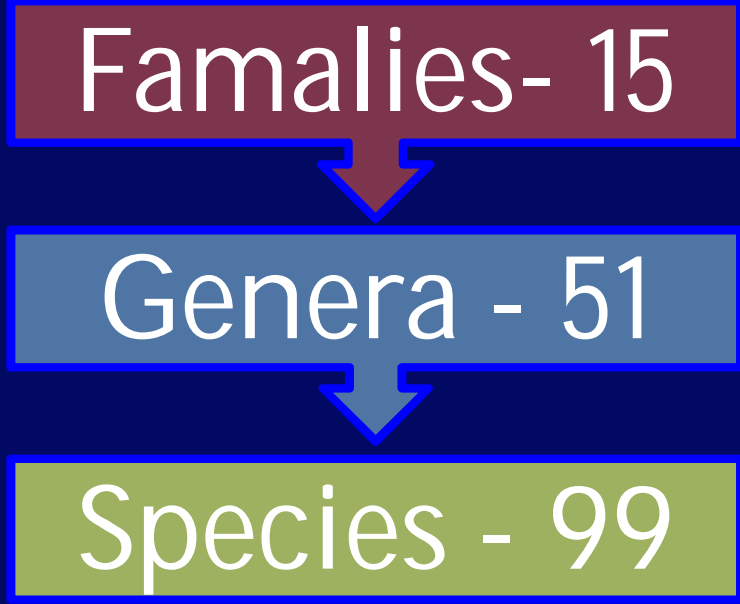


- Name – Arvind Parihar
- Designation – Botanical Assistant, Cryptogamic Unit, BSI, H.Q.
- Date of Joining in BSI – 03.04.2007 as Preservation Assistant Grade – I
- Field of work/specialisation – Macro-fungi
- Proposed Ph. D. Title – “Taxonomic studies on woody and fleshy poroid fungi of Koderma wildlife sanctuary, Jharkhand”

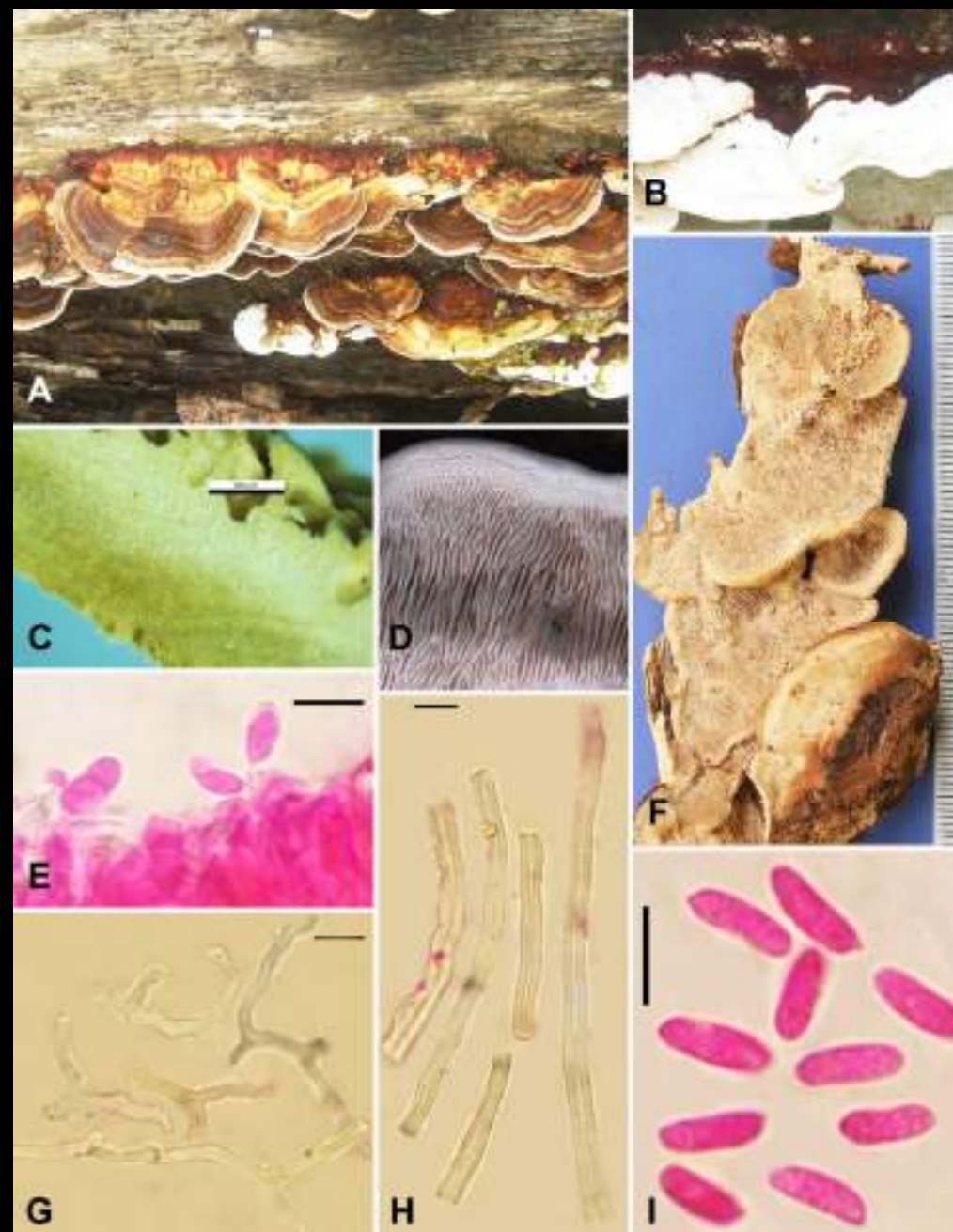


- Annual Action Plan Projects Carried out- 2 (TWO)
- Project 1- Wood Rotting Fungi of Koderma Wildlife Sanctuary, Jharkhand
- Name of the executing Official - Arvind Parihar (Under the Supervision of Dr. J.R. Sharma, Ex-Scientist 'E', BSI, NRC, Deharadoon)

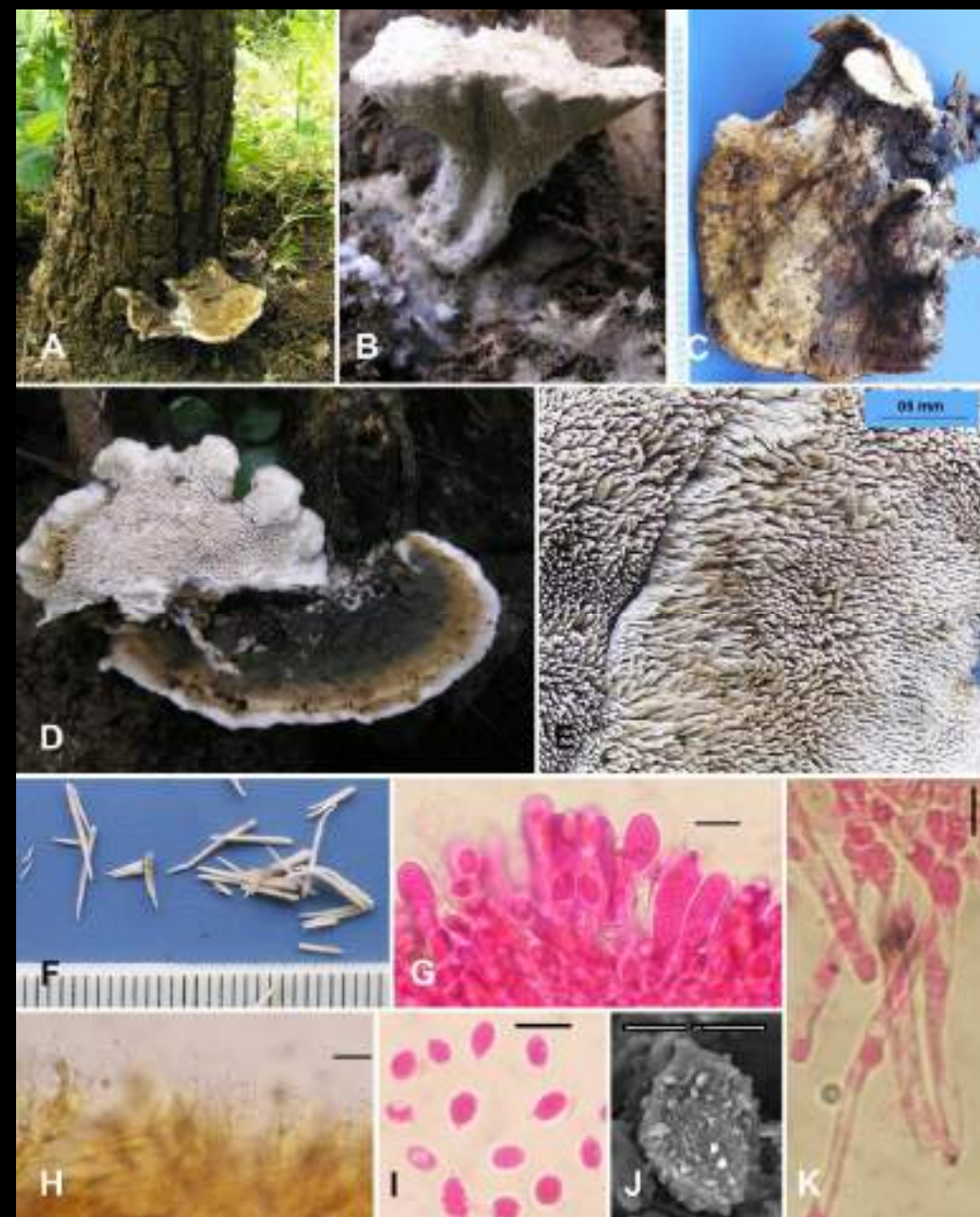




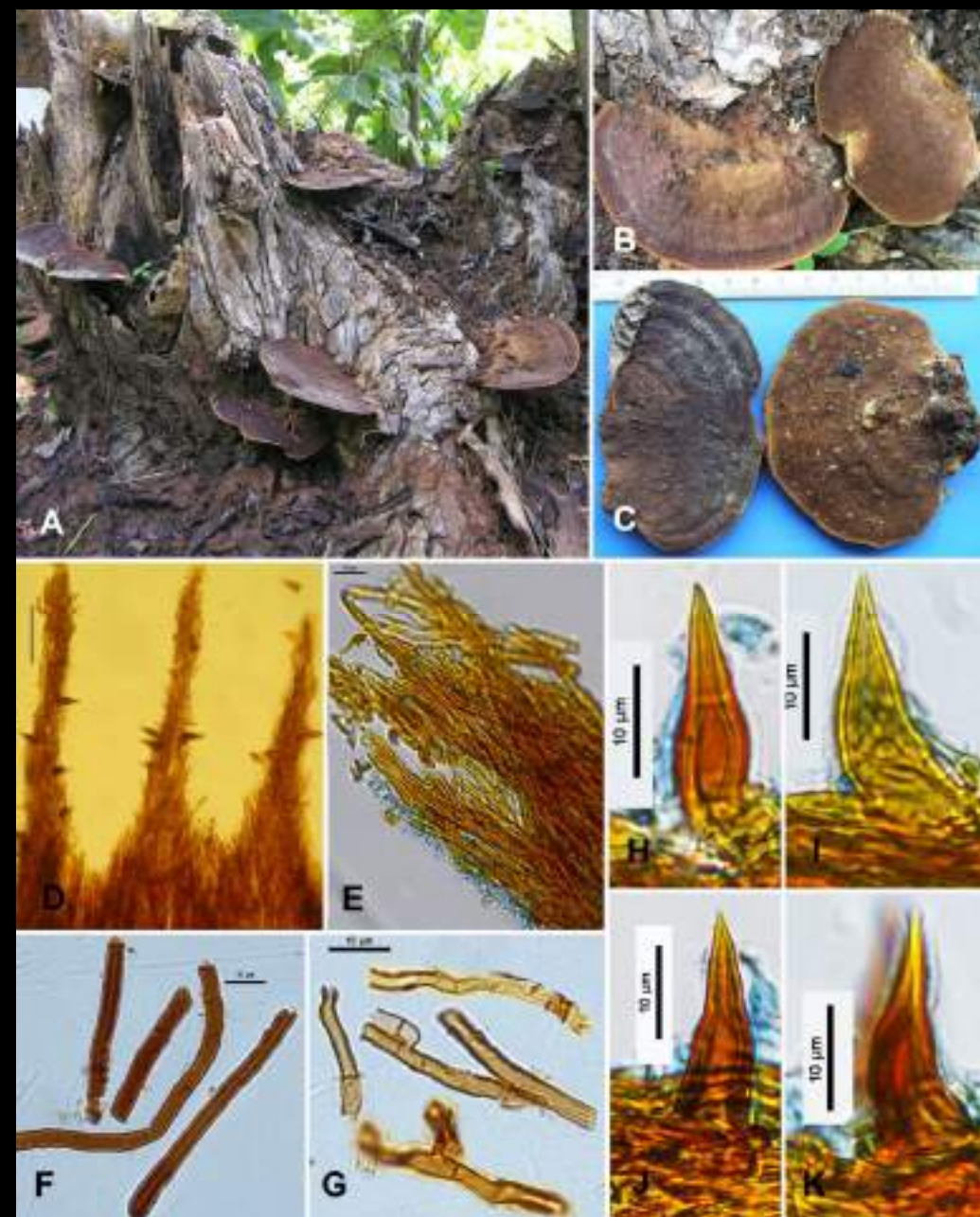
***Flavodon flavus***: A. Habit; B. Basidiomata showing pileate nature; C. Basidiomata showing effused reflexed nature; D. Pores; E. Lamellate hymenophore; F. Basidiomata with scale showing pilear surface and pore surface; G. Section of Basidiomata showing duplex context; H. Section of Basidiomata showing incrustated cystidia; I. Generative hyphae; J. Skeletal hyphae; Scale bars: G = 1 mm; H-J = 10  $\mu$ m.



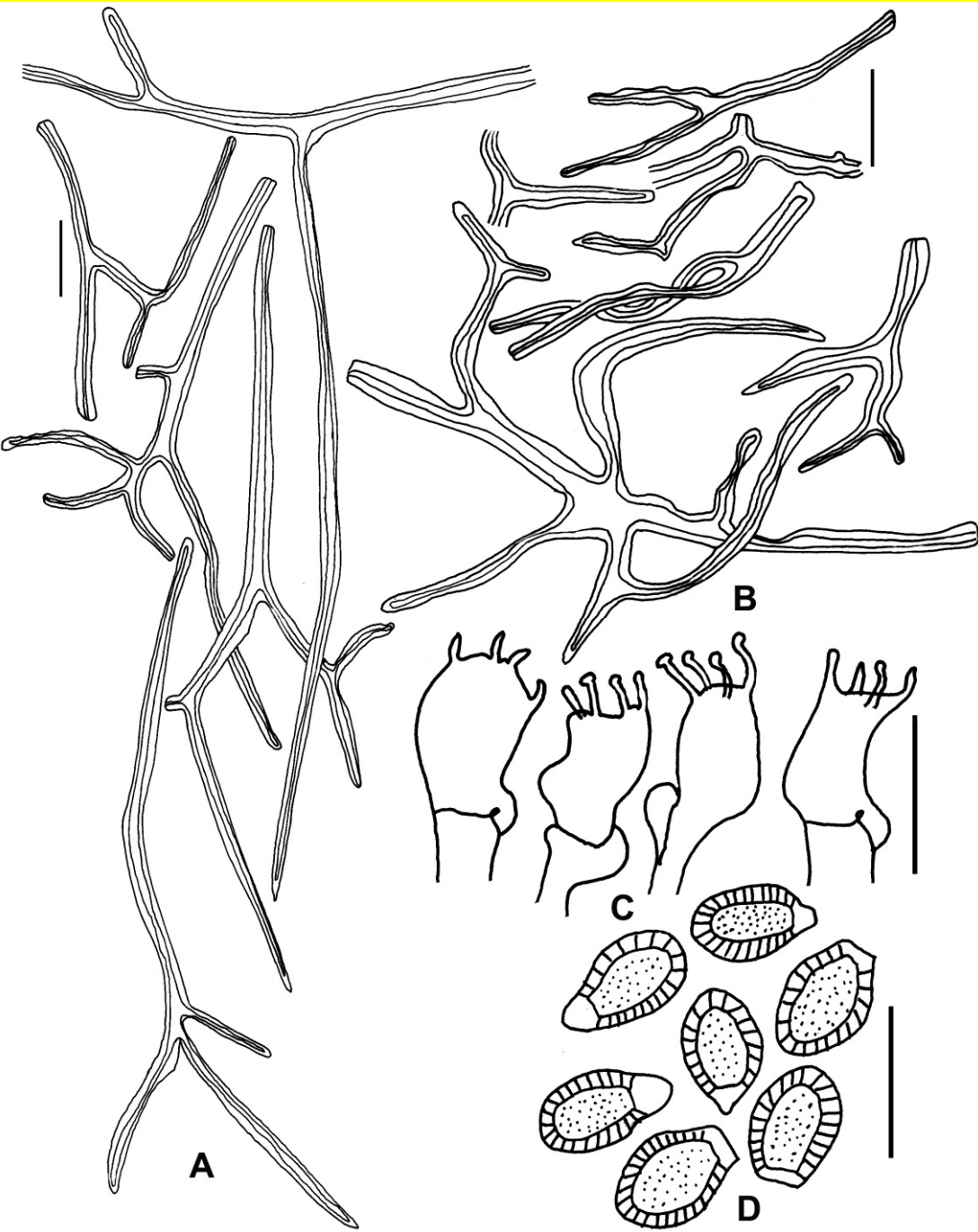
***Earliella scabrosa***: A. Habitat; B. Basidiomata showing red cuticle arising from the base; C. Duplex context; D. Pore surface; E. Section through tubes showing basidia and basidiospores; F. Basidiomata with scale; G. Binding hyphae; H. Skeletal hyphae; I. Basidiospores; Scale bars: C = 500  $\mu$ m; E & G-I = 10  $\mu$ m.



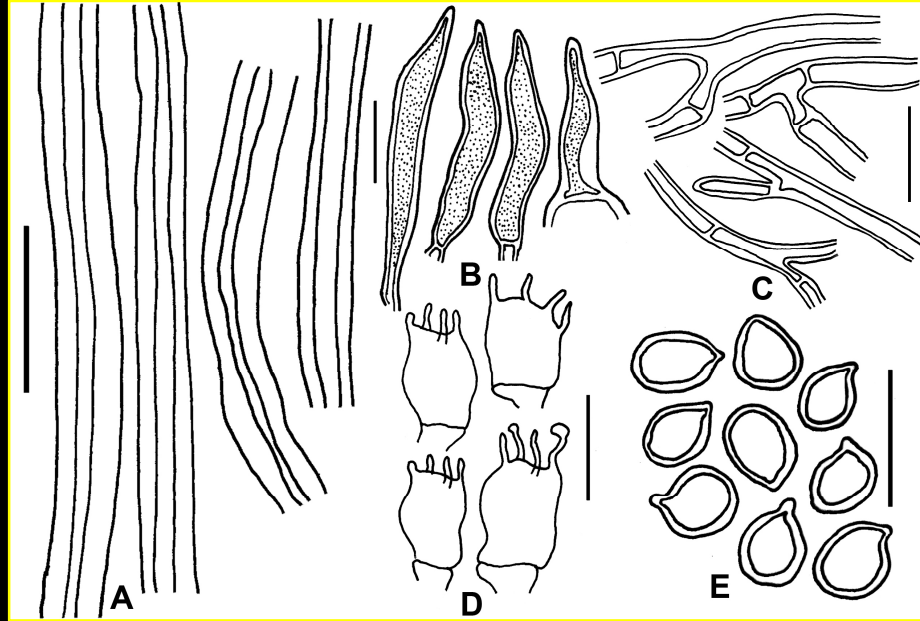
***Beenakia fuliginosa***: A. Habitat; B. Habit; C. Basidioma with scale showing pilear surface; D. Basidiomata showing pilear surface and pore surface; E. Hymenophore showing teeth; F. Teeth; G. Section of basidiomata showing basidioles; H. Section of basidiomata showing basidia; I. Basidiospores; J. SEM image of basidiospores; K. Hyphae from subiculum; Scale bars: E = 5 mm; G, H-I & K = 10 μm; J = 5 μm.



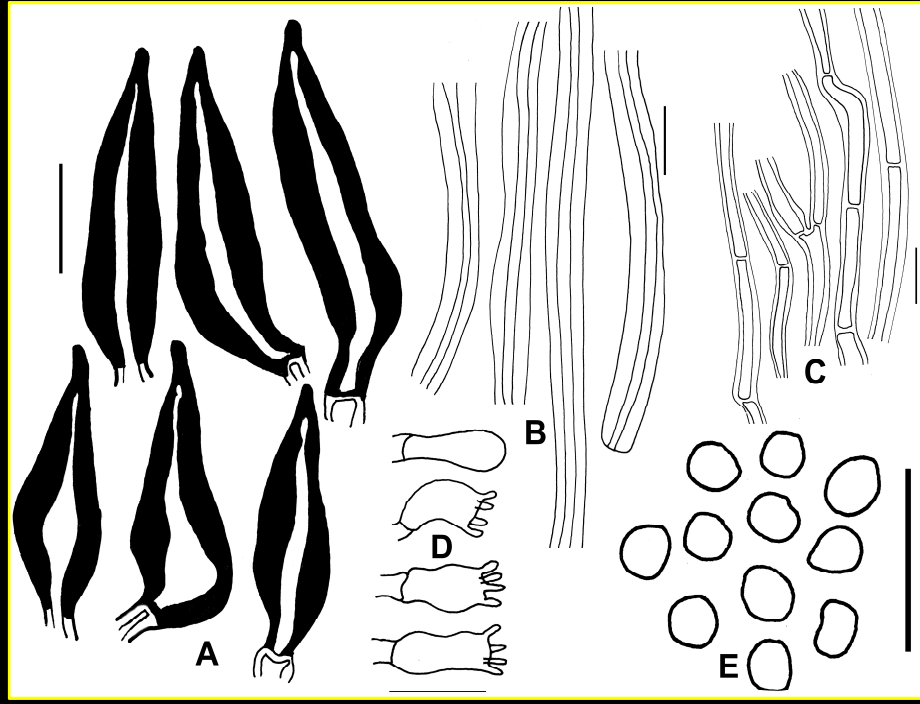
***Fuscoporia rhabarbarina***: A. Habitat; B. Habit; C. Basidiomata with scale showing pilear surface and pore surface; D. Section through the tubes showing hymenial setae; E. Section through tubes showing interwoven hyphae; F. Skeletal hyphae; G. Generative hyphae; H-K. Hymenial setae; Scale bars: D = 50 μm; E-K = 10 μm.



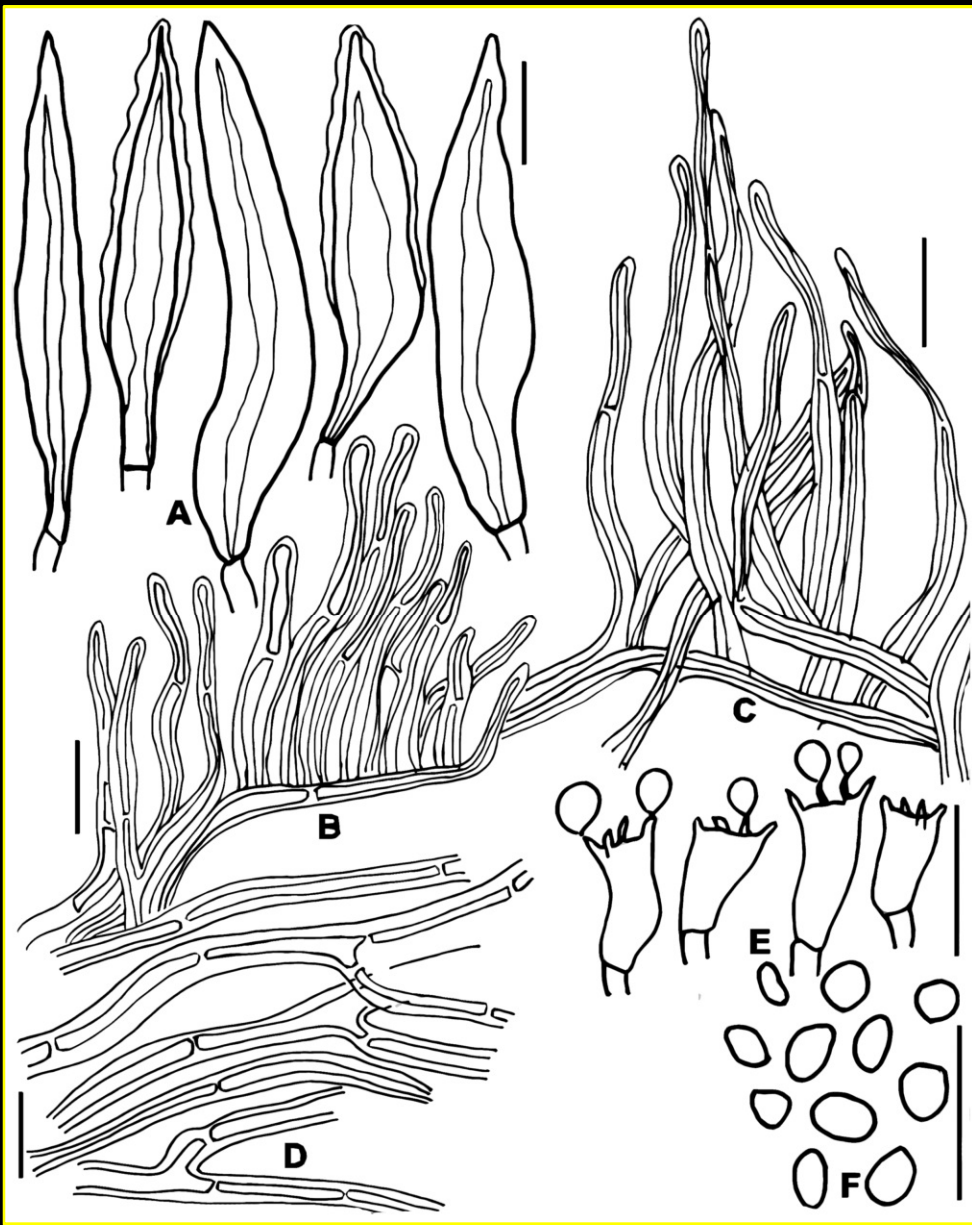
*Ganoderma applanatum*: A. Skeletal hyphae; B. Binding hyphae; C. Basidia; D. Truncate basidiospores; Scale bars: A–D = 10  $\mu$ m.



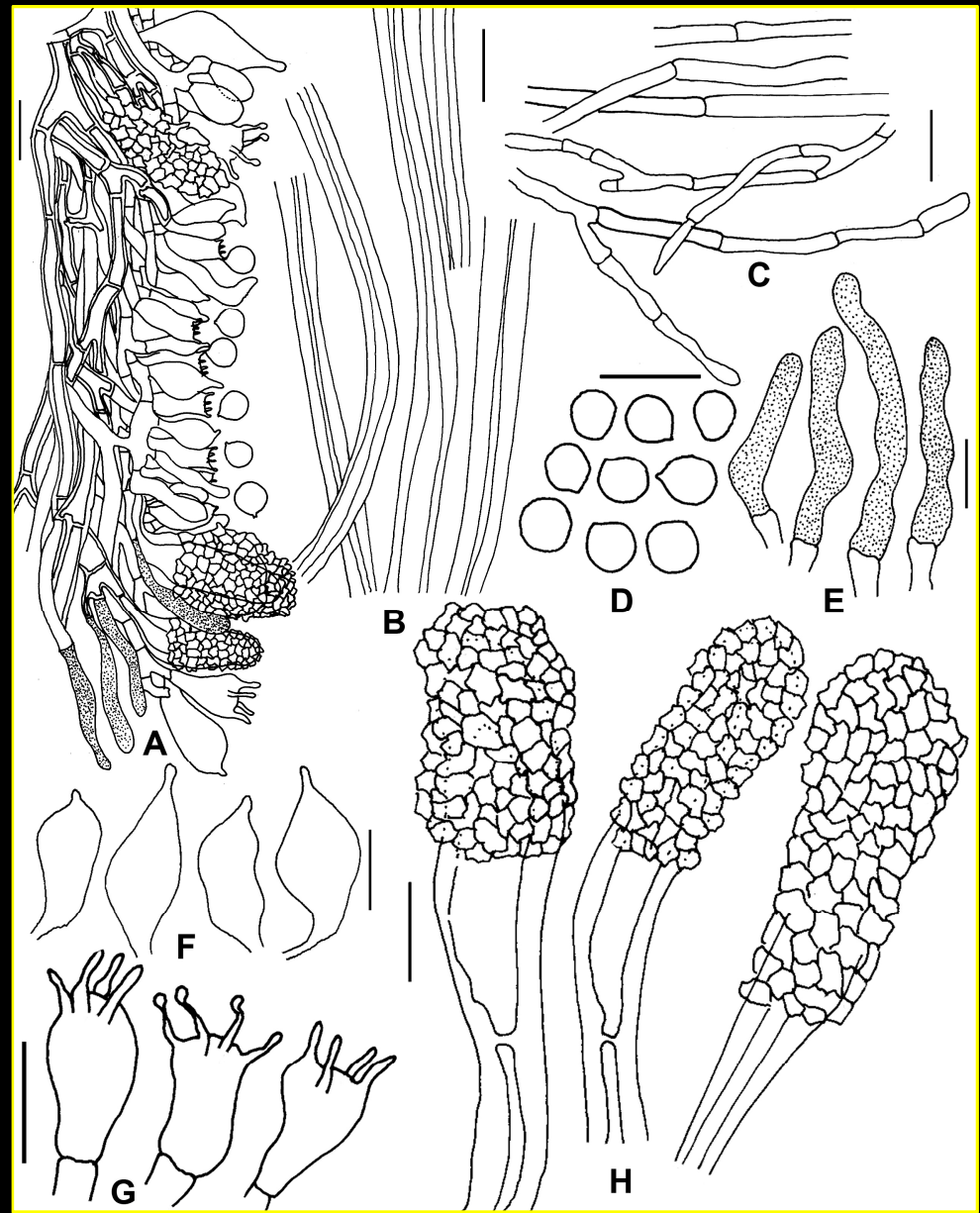
*Fulvifomes glaucescens*: A. Skeletal hyphae; B. Hymenial setae; C. Generative hyphae; D. Basidia; E. Basidiospores; Scale bars: A–E = 10  $\mu$ m.



*Phellinus extensus*: A. Hymenial setae; B. Skeletal hyphae; C. Generative hyphae; D. Basidia; E. Basidiospores; Scale bars: A–E = 10  $\mu$ m.



***Hymenochaete rheicolor***: A. Hymenial setae; B & C. Hyphae from upper pilear surface; D. Generative hyphae; E. Basidia; F. Basidiospores; Scale bars: A–F = 10  $\mu$ m.



***Rigidoporus vinctus***: A. Section through the tubes; B. Skeletal hyphae; C. Generative hyphae; D. Basidiospores; E. Gloeoporus hyphae; F. Smooth cystidia; G. Basidia; H. Apically incrustated cystidia; Scale bars: A = 25  $\mu$ m; B–H = 10  $\mu$ m.



➤ Project 2- Studies on the macro fungi of AJCBIBG, Howrah

➤ Sept. - 2015-2017

□ Total Number of research Paper published – 15+4

## List of Publications -

1. Das, K., Hembrom, M.E., **Parihar, A.** (2013) – Two Interesting species of stinkhorns from India. *NeBIO* 4(4): 1–6.
2. Hembrom, M.E., **Parihar, A.** and Das, K. (2013) – A new species of *Poronia* from India. *Current Research in Environment & Applied Mycology*. 3(2): 182–185.
3. **Parihar, A.**, Hembrom, M.E. & Das, K. (2013) – New Distributional Records of *Ganoderma colossus* (Ganodermataceae) From Jharkhand and Rajasthan. *Indian Journal of Plant Sciences* 2(4): 49–53.
4. Das, K., Chakraborty, D., **Parihar, A.** (2013) – *Cortinarius trivialis*, a new record of wild mushroom from India showing intercontinental conspecificity. *NeBIO* 4(5): 91–93
5. Hembrom, M.E., **Parihar, A.**, Martin, M.P., Watling, R. and Das, K. (2014) – First report of *Astraeus odoratus* from India. *Kavaka* 42: 16–19.
6. Hembrom, M.E., **Parihar, A.**, and Das, K. (2014) – *Gyrodontium sacchari* (Spreng.) Hjortstam – a new record of wood-inhabiting hydroid fungus from India. *Journal on New Biological Reports* 3(2): 71–74.
7. Das, K., Hembrom, M.E., Parihar, A., Mishra, D. and Sharma, J.R. (2014) – *Strobilomyces polypyramis* – rediscovery of a wild mushroom from Sikkim, India. *Indian journal of Plant Sciences* 3(2): 13–18.
8. **Parihar, A.**, Hembrom, M.E. and Das, K. (2014) – *Borofutus dhakanus* (Boletaceae)-An Addition to Indian Mycobiota. *Nelumbo* 56: 342–345.
9. Das, K., Hembrom, M.E., **Parihar, A.** & Zhao, R.L. (2015) – A new species of *Cyathus* (Agaricaceae) from India. *Turkish Journal of Botany* 40: 97-103.
10. Das, K., **Parihar, A.**, Hembrom, M.E. (2015) – A new species of *Bondarzewia* from India. *Turkish Journal of Botany* 39: 128–133.
11. Das, K., Hembrom, M.E., Dutta, A.K., **Parihar, A.**, Paloi, S. & Acharya, K. (2016) – *Ramaria subalpina* (Gomphaceae): a new edible fungus from India. *Phytotaxa* 246 (2): 137–144.

Continued.....



## List of Publications -

12. Hembrom, M.E., **Parihar, A.**, Das, K. (2016) – Three interesting wood rotting macro-fungi from Jharkhand, India. *Journal of Threatened Taxa* **8**(2): 8518–8525 (2016)
13. Acharya, K., Das, K., Paloi, S., Dutta, A.K., Hembrom, M.E., Khatua, S. and **Parihar, A.** (2016) – Exploring a novel edible mushroom *Ramaria subalpina*: Chemical characterization and Antioxidant activity *Pharmacogn J.* **9**(1): 30–34.
14. Hembrom, M.E., Das, K., Nilsson, R.H., **Parihar, A.**, Baghela, A., Mehta, N., Singh, S.K. and Hallenberg, N. (2016) – Morphology and phylogeny reveal a novel hydroid taxon from India: *Mycorrhaphoides stalpersii* gen. and sp. nov. *Nordic Journal of Botany*. **000: 001–010, 2016**, doi: 10.1111/njb.01256, ISSN 1756-1051.
15. Chakraborty D., **Parihar A.**, Mehta, N., Baghela A., and Das K. (2017) – A new species of *Xerocomus* (Boletaceae) from India. *Mycosphere* **8**(1): 44–50 (2017).

## Articles in Hindi -

1. **Parihar A.** & Kumar A. (2010) – Jain dharm ke pujaniya vriksh evam unke vegyanik mahatv. *Vanaspati Vaani* **19**: 149–156
2. **Parihar A.** (2010) – Ganoderma lucidum ek chamatkarik aushadhi. *Vanaspati Vaani* **19**: 87–88
3. **Parihar, A.** & Hembrom, M.E. (2013) – Ek Anokhi Prakirya, Spalt. *Vanaspati Vaani* **22**: 117–120.
4. Hembrom, M.E. & **Parihar, A.** (2013) – Prof. Kartar Singh Thind – Ek Kavaka Vigyanii. *Vanaspati Vaani* **22**: 143–144.

## Abstracts published

1. **Hembrom, M.E.**, Parihar, A. & Das, K.. (2014) Preliminary studies on Wood-rotting and Gasteroid Macrofungi of Rajmahal hills. Proceedings of the National seminar on cryptogamic Botany, Kalyani University. 2014: 27.
2. Parihar, A., **Hembrom, M.E.** & Das, K.. (2014) Macro fungal diversity in Kodarma wild life sanctuary. Proceedings of the National seminar on cryptogamic Botany, Kalyani University. 2014: 23.
3. **Hembrom, M.E.**, Parihar, A. & Das, K. 2016. Wood rotting fungi of Rajmahal hills, Jharkhand. Proceedings of the National Conference on “Challenges and Opportunities in Mycological Research 2016: 98–99
4. **Hembrom, M.E.**, Parihar, A. & Das, K. Hymenophoral diversity among wood-rotting macrofungi of Jharkhand. Proceedings of the International Conference on The green planet: past, present and future 2016: 55.
5. Parihar, A., **Hembrom, M.E.**, & Das, K. A detailed account of woodrotting macrofungi from Koderma wildlife sanctuary. Proceedings of the International Conference on The green planet: past, present and future 2016: 98–99.

New taxa : Genus - 1  
Species - 8



*Mycorrhaphoides stalpersii* Hembrom, Nilsson, A. Parihar, K. Das, A. Baghela & S.K. Singh

- *Xerocomus longistipitatus* K. Das, A. Parihar, D. Chakr. & A. Baghela



*Cyathus thindii* K. Das, Hembrom, A. Parihar & R.L. Zhao



*Bondarzewia zonata* K. Das, A. Parihar & Hembrom



*Ramaria subalpina* K. Das & K. Acharya



*Poronia radicata* Hembrom, A. Parihar & K. Das

Taxa new to India:

- **Genus- 1**
- **Species – 8**

1. *Phallus atrovolvatus* Kreisel & Calonge
2. *Mutinus bambusinus* (Zoll.) E. Fisch
3. *Cortinarius trivialis* J.E. Lange
4. *Astraeus odoratus* Phosri, Watling, M.P. Martín & whalley
5. *Gyrodontium sacchari* (Spreng.) Hjortstam
6. *Perenniporia bambusicola* Choeyklin, T. Hatt. & E.B.G. Jones
7. *Ganoderma elegantum* Ryvardeen

New distributional record – **2 (TWO)**



*Ganoderma colossus* (Fr.) C.F. Baker



*Borofutus dhakanus* Hosen & Zhu L. Yang



*Beenakia fuliginosa* (Mass Geest.) Parmasto & Ryvardeen

Other duties -

- Maintenance of Fungi Lab
- Accession and Incorporation of Fungi samples including HOLOTYPE materials

Future plans –

- Concentrate on the Taxonomic studies of Fleshy fungi of AJCBIBG



*Thank-You*

