

# Dr. Aparajita Roy Das



## Qualification & Details

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|------------------------|------------------------|
| Qualification          | M. SC., Ph. D          |
| Designation            | Assistant Professor    |
| Teaching Experience    | 1 Year                 |
| Publications till Date | 28                     |
| Email-Id               | Aparajita986@gmail.com |

## PUBLICATIONS:

1. Saha AK, Acharya S, Roy A. (2012) Antioxidant level of wild edible mushroom: Pleurotus djamor (Fr.) Boedijn. Journal of Agricultural Technology 8(4): 1343-1351.
2. Roy A, Saha AK, Das P. (2013) Studies on Colletotrichum capsici - a plant pathogenic fungus: selection of culture medium for growth and determination of minimum inhibitory concentration of fungicide. International Journal of Scientific Research. 2(4): 17-18.
3. Saha AK, Roy A, Das P. (2013) Fungal colonization of phylloplane of Psidium guineense sw. growing in Suryamaninagar, Tripura, northeast India. International Journal of Basic and Applied Chemical Sciences. 3(1): 62-67.
4. Das P, Roy A, Debnath A, Bhattacharjee S, Sinha S, Saha AK. (2013) Fungal diversity in the rhizosphere of Acacia auriculiformis a. cunn. ex benth and Bambusa balcooa roxb. growing in

Suryamaninagar, Tripura, northeast India. Indian Journal of Fundamental and Applied Life Sciences. 3(1):123-127.

5. Roy Das A, Das P, Bhattacharjee S, Saha AK. (2014) Chemical analysis of a wild edible mushroom: *Pleurotus djamor* (Rumph. ex Fr.) Boedijn. Mushroom Research 23(2): 161-166.

6. Roy Das A, Borthakur M, Saha AK, Joshi SR, Das P. (2015) Growth of mycelial biomass and fruit body cultivation of *Lentinus squarrosulus* collected from home garden of Tripura in Northeast India. Journal of Applied Biology and Biotechnology. 3(04): 17-19.

7. Talapatra K, Das A, Roy Das A, Saha AK, Das P. (2015) Mycorrhizal Colonization of Understorey Plants growing in Rubber Plantation of Tripura in Northeast India. Mycorrhiza News. 27(2): 2-8.

8. Debnath A, Karmakar P, Debnath S, Roy Das A, Saha AK, Das P. (2015) Arbuscular mycorrhizal and dark septate endophyte fungal association in some plants of Tripura, North-East India. Current Research in Environmental & Applied Mycology. 5(4): 398-407.

9. Roy Das A, Talapatra K, Chakraborty K, Saha AK, Das P. (2015) A commercially available fabric whitener serves as a stain for detection of arbuscular mycorrhizal fungi in roots. Mycorrhiza News. 27(3): 2-4.

10. Roy Das A, Saha AK, Upadhyay RC, Das P. (2016) Mycelial biomass under submerged culture conditions and antioxidant activity of two wild edible mushrooms of Tripura. Mushroom Research 25(2): 83-90.

11. Chakraborty K, Sinha S, Debnath A, Roy Das A, Saha AK, Das P. (2016) Arbuscular mycorrhizal fungal colonization in three different age group of rubber plantations in Tripura, Northeast India. Plant Pathology and Quarantine. 6(2): 122-131.

12. Das A, Borthakur M, Saha AK, Joshi SR, Das P. (2017) Molecular Characterization and Antioxidant Potential of Three Wild Culinary-Medicinal Mushrooms from Tripura, Northeast India. International Journal of Medicinal Mushrooms. 19 (1): 55-63.

13. Roy Das A, Saha AK, Das P. (2017) Proximate composition and antimicrobial activity of three wild edible mushrooms consumed by ethnic inhabitants of Tripura in northeast India. Studies in Fungi 2(1): 17-25.

14. Roy Das A, Saha AK, Joshi SR, Das P. (2017) Wild edible macrofungi consumed by ethnic tribes of Tripura in Northeast India with special reference to antibacterial activity of *Pleurotus djamor* (Rumph. ex Fr.) Boedijn. International Food Research Journal. 24 (2): 834-838.

15. Talapatra K, Roy Das A, Saha AK, Das P. (2017) In vitro antagonistic activity of a root endophytic fungus towards plant pathogenic fungi. Journal of Applied Biology & Biotechnology 5 (02): 068-071.

16. Bhattacharjee S, Debnath G, Roy Das A, Saha AK, Das P. (2017) Characterization of silver nanoparticles synthesized using an endophytic fungus, *Penicillium oxalicum* having potential antimicrobial activity. Adv. Nat Sci. Nanosci Nanotechnol. 8: 045008-14.

17. Talapatra K, Roy Das A, Saha AK, Das P. (2018) Culturable root-fungal endophyte in invasive plants of Tripura, Northeast India: seasonal colonization and its antimicrobial activity. *National academy of Science letters* 41(5): 317-321.
18. Chakraborty K, Banik S, Debnath A, Roy Das A, Saha AK, Das P. (2019) Arbuscular mycorrhiza and dark septate endophyte fungal associations of *Oryza sativa* L. under field condition: colonization features and their occurrence. *Plant Science Today* 6(1):63-70.
19. Chakraborty K, Talapatra K, Roy Das A, Saha AK, Das P. (2019) Mycorrhizal colonization in *Drosera burmannii* Vahl, a carnivorous plant: observation using light and fluorescence microscopy. *Ambient Science* 06(1): 1-5.
20. Bhattacharjee S, Roy Das A, Saha AK, Das P. (2019) Fungal endophytes from medicinal plants: growth promotion in *Oryza sativa* L. and *Cicer arietinum* L. *Vegetos* 32:381-386.
21. Chakraborty K, Roy Das A, Saha AK, Das P. (2019) Fungal colonization in root of *Morus alba* L. under plantation system of Tripura, India. *Journal of Botanical Society of Bengal* 73(2): 21-27.
22. Chakraborty K, Debnath A, Roy Das A, Saha AK, Das P. (2019) Root-fungal associations in plants from home gardens of Tripura, Northeast India. *Journal of Applied Biology & Biotechnology* 7(05):25-30.
23. Chakraborty K, Roy Das A, Saha AK, Das P. (2019) Mycorrhiza in plants of different life forms. *Journal of Botanical Society of Bengal* 73(1): 35-41.
24. Chakraborty K, Lushai J, Roy Das A, Saha AK, Das P. (2019) Seasonal colonization of arbuscular mycorrhiza in *Andrographis paniculata* (Burm.f.) Nees. *Mycorrhiza News* 31(2): 1-8
25. Chakraborty K, Roy Das A, Saha AK, Das P. (2020) A culture based diversity of saprobic fungi associated with leaf litter of *Hevea brasiliensis* along a chronosequence of plantations in Tripura, Northeast India. *Tropical Ecology*. 61: 468-474.
26. Chakraborty K, Roy Das A, Saha AK, Das P. (2021). Phosphate solubilizing bacteria and arbuscular mycorrhizal fungi associated with *Hevea brasiliensis* under plantations of Tripura, India. *Vegetos*. <https://doi.org/10.1007/s42535-021-00256-4>.
27. Debbarma B, Roy Das A, Chakraborty K, Saha AK & Das P. (2021). Bacterial population and identification from plant-based traditionally processed and fermented foods of Tripura, India. *Plant Science Today*. (Accepted).
28. Debbarma B, Roy Das A, Chakraborty K, Saha AK & Das P. (2021). Nutritional and phenol content of traditionally processed ethnic foods of Tripura, India. *Tropical Plant Research*. (Accepted).

**CONFERENCES/WORKSHOPS/SYMPOSIA  
ATTENDED**

1. Workshop on QPCR methods, applications and technologies conducted by Prof. Mikael Kubista, at JN TATA auditorium, IISC, Bangalore organized by TATAA Biocenter, Sweden and Polyclone Bioservices, India held on 1-3 Oct 2008.
2. Tripura Science Congress in the sector on Ecology and Environment organized by Tripura State Council for Science and Technology, Govt. of India held on 8-9 September, 2011
3. Workshop on Basic molecular biology and biotechnology sponsored by Department of Biotechnology, Govt. of India organized by State biotech Hub, Tripura University (A Central University) held on 19-23 September, 2011.
4. Seminar cum workshop on techniques in bioinformatics supported by Department of Biotechnology, Govt. of India organized by Tripura State Council for Science and Technology in collaboration with Bioinformatics centre, Tripura University. Held on 3-4 November, 2011.
5. Seminar on Molecular Biology sponsored by Department of Biotechnology, Govt. of India organized by DBT project, Department of Microbiology, Agartala Govt. Medical College in collaboration with Biotechnology Hub, Tripura University held on 6th November, 2011
6. State level training of field investigators on documentation assessment and promotion of local health traditions in Tripura sponsored by Department of AYUSH, Govt. of India jointly organized by Department of Botany, Tripura University and IAIM, FRLHT, Bangalore held on 18-25 February, 2012.
7. National Seminar cum Workshop on Bamboo cultivation and resource utilization sponsored by Department of Biotechnology, Govt. of India organized by Department of Botany, Tripura University (A Central University), Suryamaninagar -799022, Tripura held on 2-6 March, 2012.
8. Seminar on Molecular Biology sponsored by Department of Biotechnology, Govt. of India organized by DBT project, Department of Biochemistry, Agartala Govt. Medical College, Tripura University held on 31st March, 2012.
9. Symposium on Integrated approach for teaching and research in life sciences organized by Tripura University held on 28-29, September, 2012.

## Book Chapter

1. Checklist of Mushroom Diversity in West Tripura, North-East India, pp: 205-213. Trends in Frontal Areas of Plant Science Research, Narosa publishing house. ISBN No. 978-81-8487-605-5.