



Techno College of Engineering Agartala

An Engineering College affiliated to Tripura University (A Central University),
Approved by AICTE, MHRD, Govt. of India

Website: www.tiaedu.org

Name of the faculty: Dr. Sanji Debnath

Designation: Assistant Professor

Education: PhD

Contact: 7005435750

Address: Department of Basic Science and Humanities, Techno College of Engineering Agartala (TCEA) is located at Maheshkhola, Anandanagar, West Tripura, Pin-799004

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Research Interest:

- Mycology and Plant Pathology
- Mushroom Biology and Mycorrhizae
- Fungal Endophytes
- Microbiology
- Environmental Science and Pollution
- Sustainability and Biodiversity

Membership of professional bodies: NA

Professional Experience: 6 years of teaching experience and 8 years of research experience

Patents: Nil

Publications: 37 research papers, 2 book chapters and 2 Books

Publishes Journal/ Conference papers/ Book/ Book Chapters :

1. **Sanjit Debnath***, Kishan Saha, Panna Das, Ajay Krishna Saha. 2020. New record of *Clitocybe brunneocaperata* from India along with its medicinal properties. **International Journal of Medicinal Mushrooms**. 22(4); 379-388. DOI: 10.1615/IntJMedMushrooms.2020034124 Scopus Indexing: **1.47**; NAAS Score: **7.42**
2. **Sanjit Debnath***, Ramesh Chandra Upadhyay, Panna Das and Ajay Krishna Saha. 2020. Characterization of wild mushrooms from Tripura, Northeast India. **Indian Phytopathology** (Springer Publisher). 73(1);97. DOI:10.1007/s42360-019-00188-9. Scopus Indexing: **0.23**; NAAS Score: **5.90**
3. **Sanjit Debnath***, Kripamoy Chakraborty, Badal Kumar Datta, Panna Das, Ajay Krishna Saha. 2019. *Trichoglossum tetrasporum*, newly recorded from India. **Mycotaxon** 134(1):119-124. <https://doi.org/10.5248/134.119> Scopus Indexing: **0.53**; NAAS Score: **6.53**
4. **Sanjit Debnath***, Bapi Debnath, Rahul Saha, Atrayee Dutta, Panna Das and Ajay Krishna Saha (2020) Production of Exopolysaccharides (EPSs) and Evaluation of Biological Properties of *Pleurotus flabellatus* (Berk and Br.) Sacc. **Proceedings of the National Academy of Sciences, India Section B: Biological Sciences**. 91(3):1-11. DOI:10.1007/s40011-021-01261-y. NAAS Score: **





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5. **Sanjit Debnath***, Sanchita Bhattacharya, Panna Das and Ajay Krishna Saha. (2020) Cultivation of a wild strain of *Schizophyllum commune* on agro-industrial wastes. **KAVAKA**. 55: 77-83. doi:10.36460/Kavaka/55/2020/77-83. NAAS Score: 5.30
6. **Sanjit Debnath***, Samrat Hore, Panna Das and Ajay Krishna Saha. (2022) The evaluation of selected bioactivities of fungal mycelium of a wild *Schizophyllum commune* Fr. from submerged cultures. **Journal of Microbiology, Biotechnology and Food Sciences**. 12(2), e3250. <https://doi.org/10.55251/jmbfs.3250>. Scopus Indexing: **1.3**; NAAS Score: Nil
7. **Sanjit Debnath***, Ramesh Chandra Upadhyay, Rahul Saha, Koushik Majumdar, Panna Das, Ajay Krishna Saha. 2020. A checklist of macrofungi (mushroom) diversity and distribution in the forests of Tripura, India. **Journal of Threatened Taxa** 12(10): 16314–16346. <https://doi.org/10.11609/jott.5730.12.10.16314-16346>. NAAS Score: **5.10**
8. **Sanjit Debnath***, Goutam Chakraborty, Suvendhu S Dutta, Shaon Ray Chaudhury, Panna Das, Ajay Krishna Saha. 2020. Potential of Trichoderma species as biofertilizer and biological control on *Oryza sativa* L. cultivation. **Biotechnología Vegetal** 20(1): 1-16. NAAS Score: Nil
9. **Sanjit Debnath***, Rahul Saha, Panna Das and Ajay Krishna Saha. 2019. Cultivation and medicinal properties of wild edible *Pleurotus ostreatus* of Tripura, Northeast India. **Vegetos** (Springer Publisher) 32(3): 238-246. <https://doi.org/10.1007/s42535-019-00035-2> Scopus Indexing: **0.18**; NAAS Score: Nil
10. **Sanjit Debnath***, Bapi Debnath, Panna Das, Ajay Krishna Saha. 2019. Review on an ethnomedicinal practices of wild mushrooms by the local tribes of India. **Journal of Applied Pharmaceutical Science** 9(08):144-156. DOI: 10.7324/JAPS.2019.90818 Scopus Indexing: **0.79**; NAAS Score: Nil
11. **Sanjit Debnath***, Vincy Halam, Panna Das and Ajay Krishna Saha. 2018. Proximate composition, effects of carbon and nitrogen sources on biomass and exopolysaccharides (EPSs) production of *Auricularia auricula-judae*. **Vegetos** 31(3): 30-36. Doi:10.5958/22294473.2018.00070.8 Scopus Indexing: **0.18**; NAAS Score: Nil
12. **Sanjit Debnath***, Ramesh Chandra Upadhyay, Panna Das and Ajay Krishna Saha. 2017. Antioxidant activities of methanolic extracts from ten *Pleurotus* species. **International Research Journal of Pharmacy** 8(3): 44-49. Scopus Indexing: **0.1**; NAAS Score: Nil
13. **Sanjit Debnath***, Koushik Majumdar, Panna Das and Ajay Krishna Saha. 2018. A new report of *Xylaria Schreuderiana* Van Der Bijl. from Tripura, Northeast India. **Indian Forester** 144(11): 1114-1115. Scopus Indexing: N/A; NAAS Score: **4.38**
14. **Sanjit Debnath***, Koushik Majumdar, Panna Das and Ajay Krishna Saha. 2018. New distribution record of five species of *Xylaria* from Tripura, Northeast India. **Research & Reviews: A Journal of Life Sciences** 8(1): 1–10. Scopus Indexing: Nil; NAAS Score: Nil
15. **Sanjit Debnath***, Rahul Saha, Panna Das, Ajay Krishna Saha. 2018. Checklist of *Auricularia* species along with biological activities (Review article). **Research & Review: A Journal of Toxicology** 7(3):15-26. Scopus Indexing: Nil; NAAS Score: Nil
16. **Sanjit Debnath***, Ajay Krishna Saha and Panna Das. 2017. Biological activities of *Schizophyllum commune* Fr.: A wild edible mushroom of Tripura, North East India. **Journal of Mycopathological Research** 54(4): 469-475. Scopus Indexing: Nil; NAAS Score: 4.90
17. **Sanjit Debnath***, Pintu Karmakar, Sukla Bhattacharjee, Koushik Majumdar, Panna Das and Ajay Krishna Saha. 2018. Isolation and identification of fungal assemblages in the necrotic spots of *Bambusa pallida* (L.) Voss. **Annals of Plant Sciences** 7(4):2160-2165. <http://dx.doi.org/10.21746/aps.2018.7.4.15> Scopus Indexing: Nil; NAAS Score: Nil
18. Atithi Debnath, Pintu Karmakar, **Sanjit Debnath**, Aporajita Roy Das, Ajay Krishna Saha and Panna Das. 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): 394–403. Scopus Indexing: **0.49**; NAAS Score: Nil
19. Sanchita Bhattacharya, **Sanjit Debnath**, Ajay Krishna Saha. 2020. Diversity and endophytic



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- fungus composition in *Ananas comosus* (L.) Merr. var queen cultivar isolated from three different growing conditions. **Studies in Fungi** 5(1), 310–319, Doi 10.5943/sif/5/1/13. NAAS Score:Nil
20. Sanchita Bhattacharya, S Namasudra, **Sanjit Debnath**, Ajay Krishna Saha. 2020. Comparative Allelopathic Effects of Two Weed Extracts on Seed Germination and Seedling Growth of *Vigna unguiculata* (L.) Walp. and *Abelmoschus esculentus* L. **Defence Life Science Journal**, 5(3): 204-210. DOI : 10.14429/dlsj.5.15653. NAAS Score:Nil
21. Sanchita Bhattacharya, **Sanjit Debnath**, Panna Das and Ajay Krishna Saha. 2018. Leaf age dependent variation in phylloplane mycoflora from *Ananas comosus* L. var. Queen from Tripura. **Journal of The Botanical Society of Bengal** 71(1&2):47-50. Scopus Indexing: Nil, NAAS Score:Nil
22. Sanchita Bhattacharya, **Sanjit Debnath** and Ajay Krishna Saha. 2018. Evaluation of antioxidant activity of two endophytic fungi isolated from *Ananas Comosus* L. **European Journal of Biomedical and Pharmaceutical Sciences** 5(1):896-899. Scopus Indexing: Nil; NAAS Score:Nil
23. Sanchita Bhattacharya, **Sanjit Debnath**, Panna Das and Ajay Krishna Saha. 2018. Antioxidant activity of fungal endophyte *Aspergillus Sydowii* isolated from *Ananas Comosus* L'. **International Journal of Current Advanced Research** 7(4):11466-11469. Scopus Indexing: Nil; NAAS Score: 3.07
24. Sanchita Bhattacharya, **Sanjit Debnath**, Panna Das, Ajay Krishna Saha. 2019. Diversity of fungal endophyte of *Ananas comosus* L. var. kew from Unokoti district, Tripura with bioactive potential of *Neopestalotiopsis piceana*. **Asian Journal of Pharmacy and Pharmacology** 5(2):353-360. <https://doi.org/10.31024/ajpp.2019.5.2.19> Scopus Indexing: Nil; NAAS Score:Nil
25. Sanchita Bhattacharya, Sourav Debnath, **Sanjit Debnath**, Ajay Krishna Saha. 2019. Effects of vermicompost and urea on the seed germination and growth parameters of *Vigna mungo* L. and *Vigna radiata* L. Wilzek. **Journal of Applied and Natural Science** 11(2):321-326. <https://doi.org/10.31018/jans.v11i2.2052> Scopus Indexing: Nil; NAAS Score: 4.84
26. Pintu Karmakar, Biren Jamatia, **Sanjit Debnath**, Panna Das, Ajay Krishna Saha. 2020. Biomonitoring of airborne fungi and antifungal activity of *Clerodendrum infortunatum* L. against dominant fungi. **Sustainability, Agri, Food and Environmental Research**, 8(X): 1-15. <http://dx.doi.org/10.7770/safer-V0N0-art2082>, NAAS Score:Nil
27. Sanchita Bhattacharya, **Sanjit Debnath** and Ajay Krishna Saha (2021) Diversity of Foliar Endophytic Fungi in *Artocarpus heterophyllus* Lam. and *Citrus reticulata* Blanco of Tripura. **Journal of Tropical Life Science**. 11(2). <http://dx.doi.org/10.11594/jtls.11.02.15> NAAS Score:Nil
28. Sanchita Bhattacharya, Tuhin Saha, **Sanjit Debnath**, Ajay Krishna Saha (2022) Allelopathic potential of weed extracts on seed germination and seedling growth of *Vigna radiata* L. Wilzek and *Vigna mungo* L. **International Journal of Life Sciences Research**. 10(2): 13-20. DOI: <https://doi.org/10.5281/zenodo.6576470>
29. Rahul Saha, Krishna Kanta Pandey, **Sanjit Debnath**, Kripamoy Chakraborty, Panna Das and Ajay Krishna Saha. (2023). Comparative contemplation on the growth, productivity and biological Efficiency of *Pleurotus florida* cultivated on agro-industrial waste. **Journal of Mycopathological Research** 61(1); 85-89. (doi: 10.57023/JMycR.61.1.2023.085)
30. Jayanta Deb, Saurabh Gupta, **Sanjit Debnath**. (2024). A small review on polymerase chain reaction (PCR) for the detection of *Salmonella* species. **Journal of Applied Pharmaceutical Science** 14(08); 041-051. DOI: 10.7324/JAPS.2024.177634
31. Jayanta Deb, **Sanjit Debnath**, Sibabrata Bhattacharya, Tapan Majumdar. (2024). Spectrum of Bacterial Isolates and their Antibigram in Different Intensive Care Unit (ICU) of Tertiary Care Hospital as a part of Hospital Acquired Infection (HAI) Surveillance. **Annals of the National Academy of Medical Sciences (India)**; 60:190-196. doi: 10.25259/ANAMS-2023-3-11-(869)
32. Rahul Saha, Krishna Kanta Pandey, **Sanjit Debnath***, Prasenjit Debbarma and Ajay Krishna Saha. (2024). A Comparative Approach on the Effects of Organic Wastes for the Cultivation of



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- Wild Edible Mushrooms along with Various Substrate Compositions. **Fungal Biotech**; 4(1): 75–110. Doi 10.5943/FunBiotech/4/1/6
33. Jayanta Deb, Suddha Sattwa Bandyopadhyay, **Sanjit Debnath**, Saurabh Gupta. A Comprehensive Guide to Typhoidal Anemia. **Prague Medical Report** (Accepted)
34. **Sanjit Debnath***, **Sibabrata Bhattacharya** and **Ajay Krishna Saha**. (2024). Ethnomedical Uses of Plant Parts for Tuberculosis Treatment: Current Trends and Future Directions. **Discover Plants**. (Under Revision)
35. Jayanta Deb, Saurabh Gupta, Saheli Bhadra and **Sanjit Debnath**. A Comprehensive Review of the Epidemiology, Diagnostics, and Clinical Strategy for Community-Acquired Pneumonia. **SN Comprehensive Clinical Medicine** (Under Review)
- *means corresponding author

Book chapter:

1. **Debnath S***, Das AR, Karmakar P, Debnath G, Das P, Saha AK (2017) Checklist of mushroom diversity in West Tripura, North-East India. In: Sinha S and Sinha RK (ed) Trends in Frontal Areas of Plant Science Research, 1st edn. Narosa Publishing House Pvt. Ltd., India, pp 205–213.
2. Sanchita Bhattacharya, **Sanjit Debnath** and Ajay Krishna Saha (2020) Bioactive potentials of some foliar endophytic fungi isolated from *Artocarpus heterophyllus* Lam and *Citrus reticulata* blanco of Tripura In : Biological Sciences: Impacts on Modern Civilization, Current and Future Challenges by Anupam Guha © New Delhi Publishers, New Delhi: 2021, 129-137. ISBN: 978-81-947417-9-4, DOI: 10.30954/ndp.bio.2020.12

Books:

1. **Debnath, Sanjit**. *Engineering Biology: Bridging Life Sciences and Technology*. Shashwat Publication, ISBN; 937462902X, 9789374629024; 225p, 2026.
2. **Debnath, Sanjit**. *Fundamentals of Environmental Science: Fundamentals of environmental science for engineering, general undergraduate and postgraduate students*. (2026). Clever Fox Publishing.

Achievements (if any):

1. **SITARE- Gandhian Young Technological Innovation (GYTI) Appreciation award** by Hon'ble Union Minister **Dr. Harsh Vardhan**, Ministry of Health and Family Welfare, Science and Technology; Earth Sciences of India on **November 05, 2020**.

Hobbies:

- i. Reading a wide variety of books, particularly those related to science and emerging scientific developments.
- ii. Reading, writing, and reviewing research papers to enhance academic knowledge and research skills.
- iii. Singing songs during leisure time as a means of relaxation and personal enjoyment.
- iv. Reading newspapers regularly to stay informed about current affairs, scientific advancements, and global events.