

**Name:** Dr. Asha Kiran Lakra

**Post:** Assistant Professor



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### **EDUCATION QUALIFICATION**

- **Ph.D** in Botany

Microbial Ecology Laboratory, Department of Botany, North-Eastern Hill University, Shillong

**Thesis title:** Studies on diversity of endophytic fungi associated with *Prunus napaulensis* (Ser.) Steud. and screening of its antifungal activities against phytopathogens

- **Master of Science** in Botany
  - Department of Botany, North-Eastern Hill University, Shillong
  - **Specialization:** Plant Taxonomy
- **Bachelor of Science** in Botany
  - St. Anthony's College, Shillong

### **OTHER QUALIFICATION**

- **CSIR-UGC NET (LS/JRF)** 2019
- **GATE** (2019)

### **PUBLICATIONS**

- Singh, B., Barwant, M. M., Sobin, F., Lakra, A. K., Sharma, S. A., & Rajput, A. (2026). Exploring Microbial Responses to Nanomaterials in Soil Environments: Balancing Act. In A. Singh, V. Rajput, R. Singh, K. Ghazaryan, & T. Minkina (Eds.), *Nanotechnology Applications in Soil Science: From Remediation to Precision Agriculture* (pp. 123-160). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3693-7006-3.ch005>

- Lakra, A. K. and Kayang, H. (2025). Plant extract edible coating extends shelf-life and retains functional properties of *Prunus napaulensis* fruit during storage. *Journal of Postharvest Technology*, 13(2): 50-64.
- Lakra, A. K. and Kayang, H. (2023). Exploring endophytic fungi associated with *Prunus* species: An overview. *Algal, Fungal and Microbial Research*, 207-213.

## CONFERENCE PAPERS

- Poster presentation on “GCMS analysis and molecular docking of bioactive compounds of *Prunus napaulensis* (Ser.) Steud” in the “International conference on current trends in biological sciences” held on 18-20 March, 2024 at Mizoram University.
- Oral presentation on “Antioxidant property of underutilized wild indigenous fruit crop: *Prunus napaulensis* (Ser.) Steud” in the “International seminar on advances in entrepreneurial botany: entrepreneurship opportunities from plant resources for sustainable development” held on 27-29 October, 2022 at University of Science & Technology Meghalaya.
- Poster presentation on “Extracellular enzyme activities of fungal endophytes isolated from *Prunus napaulensis* (Ser.) Steud. of West Khasi and West Jaintia Hills districts of Meghalaya” in the National seminar on “Emerging trends in plant sciences (ETPS)” held on 29-30 March, 2022 at Department of Botany, North-Eastern Hill University, Shillong, Meghalaya.
- Oral presentation on “Comparative study of endophytic fungal diversity of *Prunus napaulensis* (Ser.) Steud. from West Khasi Hills and West Jaintia Hills districts of Meghalaya” in the “Assam Botany Congress (abc-02) and International Conference on plant science” held on 3-5 December, 2021 at Cachar College.

## WORKSHOPS

- Attended two-day faculty training workshop on advanced UG Life Science practicals organized by the Department of Botany, Biochemistry, DBT-Institutional Biotech Hub and DST-FIST of St. Anthony’s College on the 12th and 13th March, 2026.
- Attended three days Hands-on training & workshop on “Molecular techniques used for surveillance of viruses” at Department of Microbiology, NEIGRIHMS, Shillong, 12<sup>th</sup> -14<sup>th</sup> June 2024.
- Attended two days training program on “Analytical instruments and its applications (HPLC & GCMS)” at Guwahati Biotech Park, 1<sup>st</sup> -2<sup>nd</sup> February 2024.
- Attended Two days hands-on training on “Protein extraction, purification, FPLC analysis & SDS PAGE technique” at Guwahati Biotech Park, 19<sup>th</sup> – 20<sup>th</sup> January 2024.
- Attended one day workshop on “The full agenda of the DST & ACS workshop: North-Eastern Hill University (NEHU)”, 30<sup>th</sup> May 2022.

## WORK EXPERIENCE

- Guest Faculty in Department of Botany in Union Christian College, Meghalaya (March 2025- July 2025)
- Guest Faculty in Department of Botany in St. Edmund’s College, Shillong (August 2019)

- Trainer in Hundredfold Academy (June 2019- October 2019)
- M.Sc Project in Taxonomy (November 2017-May 2018)  
-Diversity of Macrophytes in Lentic Water System of North-Eastern Hill University (Shillong) and Marngar Village (Nongpoh), Meghalaya. - Team size: 1

#### **AWARDS AND ACHIEVEMENTS**

- Prof. T.C. Dutta Award for securing the 1<sup>st</sup> Rank in B.Sc. Botany Honours in the examination conducted by the North-Eastern Hill University (2016)
- Grade 'A' in NCC A certificate examination conducted by the authority of Ministry of Defence, Government of India (2009)