

## ***CURRICULUM VITAE***

**Dr. UPASHNA CHETTRI**

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### **EDUCATION**

Ph.D. obtained from the Department of Biotechnology and Bioinformatics,  
North-Eastern Hill University, Shillong (2018-2023)

**Thesis title:** Studies on co-occurrence of heavy metals and antibiotics  
tolerance among bacterial along Teesta River

**Supervisor:** Professor S.R. Joshi

### **OTHER ACADEMIC QUALIFICATIONS**

<b>Year/Examination passed</b>	<b>Board/University</b>	<b>Percentage %</b>	<b>Class/ Division</b>
2012 M.Sc (Microbiology)	University of North Bengal	73.5	I*(first class distinction)
2010 B.Sc( Microbiology)	University of North Bengal	64.4	I
2006 ISCE (CI-XII)	CISEE (Delhi Board)	67.8	I
2004 ICSE(CI-X)	CISCEE (Delhi Board)	65.8	I

### **MEMBERSHIP**

Life member of the Microbiologist Society of India

## PUBLICATIONS

- **Chettri U**, Nongkhlaw M and Joshi SR (2023) Molecular Evidence for Occurrence of Heavy Metal and Antibiotic Resistance Genes Among Predominant Metal Tolerant *Pseudomonas* sp. and *Serratia* sp. Prevalent in the Teesta River. *Current Microbiology*, 80: 226. <https://doi.org/10.1007/s00284-023-03334-9>.
- **Chettri U**, Chakrabarty TK and Joshi SR (2022) Pollution index assessment of surface water and sediment quality with reference to heavy metals in Teesta River in EasternHimalayan range, India. *Environmental Nanotechnology, Monitoring and Management*, 18. <https://doi.org/10.1016/j.enmm.2022.100742>.
- **Chettri U** and Joshi SR (2022) A first calibration of culturable bacterial diversity and their dual resistance to heavy metals and antibiotics along altitudinal zonation of the Teesta River. *Archives of Microbiology*, 204(5): 241. doi: <https://doi.org/10.1007/s00203-022-02858-1>.
- Singh IR, **Chettri U**, Maity P, Ghosh AK, Joshi SR and Mitra S (2022) Modulated Antimicrobial Activity and Drug-Protein Interaction Ability of Zinc Oxide and Cadmium Sulfide Nanoparticles: Effect of Doping with Few First-Row Transition Metals. *Journal of Cluster Science*. <https://doi.org/10.1007/s10876-022-02257-y>.
- **Chettri U**, Rai AK, Thabah S and Joshi, SR (2022) Production of Malt-Based Beverages. In: Verma, P. (eds) *Industrial Microbiology and Biotechnology*. Springer, Singapore. [https://doi.org/10.1007/978-981-16-5214-1\\_11](https://doi.org/10.1007/978-981-16-5214-1_11)
- Barbaruah, BR, Roy R, **Chettri U** and Joshi SR (2021) Currency notes in circulation can be potential sources of transmissible diseases. *The NEHU Journal*, 19 (2): 82-96.
- Joshi SR and **Chettri U** (2019) Fungi in Hypogean Environment: Bioprospection Perspective. In: Satyanarayana T., Deshmukh S., Deshpande M. (eds) *Advancing Frontiers in Mycology & Mycotechnology*. Springer, Singapore. 539-561.
- **Chettri U** and S.R. Joshi (2022) Metallophiles and heavy metal bioremediation. In: Alam, P and Tiwary, B.K. (eds) *Extremophiles: Diversity, Adaptation and Applications*. Bentham Books.

## ACHIEVEMENTS AND AWARDS

- Qualified State Eligibility Test for Assistant Professor (SLET) Northeast Region 2022.
- Qualified The West Bengal College Service Commission, State Eligibility Test for Assistant Professor accredited by the University Grants Commission, New Delhi,

2022.

- Qualified National Eligibility Test conducted by Agricultural Scientists Recruitment Board, ICAR, for eligibility for Lectureship/Assistant Professorship in Agricultural Microbiology, 2018.
- Awarded the University *Silver Medal* for securing **second position in first class** in Microbiology in the Master of Science Examination, 2012.
- One-year certificate course under Career Oriented Programmes (C.O.P.) Examination 2008 in Industrial Microbiology.

### **WORK EXPERIENCE**

- Assistant Professor in the Department of Microbiology, Gyan Jyoti College, Siliguri, affiliated to North Bengal University from 8<sup>th</sup> August, 2013 to 31<sup>st</sup> July 2016
- Assistant Professor in the Department of Microbiology, St. Xavier's College, Rajganj, Jalpaiguri, affiliated to North Bengal University from 1<sup>st</sup> August, 2016 to 31<sup>st</sup> January 2018

### **SEMINARS/CONFERENCES/WORKSHOPS**

- Attended one-day National Webinar on “NEP-2020: Overview and Milestones to Achieve” Organised by Microbiologists Society (West Bengal Unit). (Reg No. MAH/4814/SAT) on 16.09.2023
- Presented a paper titled “Spatial-temporal distribution and risk assessment of heavy metals in the surface water and sediment of river Teesta: Pollution indexing approach” in the online international conference on Agriculture, Forestry, Horticulture, Aquaculture, Animal Science, Food Technology, Biodiversity and Climate change: Sustainable approaches (AFHAFBC-2021)” organized by Krishi Sanskriti, New Delhi on 1<sup>st</sup> August 2021.
- Presented a paper entitled “Bacterial population dynamics along river Teesta and bacterial indicators” in the National Seminar WATER 2020, IIT Guwahati, January 2020.
- Presented a paper titled “An analysis of bacterial population dynamics along river Teesta from the perspective of developing microbial indicators” in the National Seminar on recent advancements in Science and Technology organized by Union Christian College, through the Science Society, in collaboration with North-Eastern Space Application Centre (NESAC), Umiam and College of Post Graduate Studies in Agricultural Sciences (CAU-1), Umiam during 12-14 June 2019.
- Participated in National Conference on “Recent advances in Applied Biological Sciences” organized by the Department of Biotechnology and Bioinformatics, North-Eastern Hill University, Shillong during 4-5 May, 2018.
- Participated in the workshop on “Inductively Coupled Plasma-optical Emission Spectroscopy (ICP-OES) and its application” at SAIF, NEHU, Shillong during 18-20 April 2018.

- Participated in Workshop on Metagenomic and Microbial Ecology: hands on training on analysis on NGS data, organized by DBT's Unit of Excellence and hosted by IASST, Guwahati during 21-23 March 2018.
- Attended "Two Days International Seminar on Ethical Challenges and Contemporary Issues in Creative Research: Uniformity Vs Creativity" Organized by Research and Innovation Committee & Institutional Ethics Committee, Lady Kaene College, Shillong, during 19-20 February 2018.
- Presented a paper titled "Cigarette Smoking and Emergence of MRSA" on Microbial World 2017: National Seminar on Applied Microbiology" held on 4<sup>th</sup> September, 2014.
- Organized a workshop titled "Advanced Technique in Microbiology for undergraduate Students held on 16-18 March 2016
- Participated in the "Science in Bengal" Satellite Conference, 22<sup>nd</sup> West Bengal state Science & Technology Congress-2015 held during 3-4 June, 2015.
- Attended a three-day National Seminar and Workshop in Bioinformatics organized by Bioinformatics Facility, Botany Department, University of North Bengal during 12-14 March 2015.
- Poster presentation on the topic "Optimization of conditions for biopigment production using different agro-based substrates by *Monascus purpureus* MTCC 1090" in the National seminar on Micro and Macro resources in Biomolecular Technology organized by Department of Biotechnology and Microbiology, University of North Bengal, February 25- 26, 2013
- Participated in the UGC sponsored Seminar "Microtrends 2012" Emerging Trends in Microbiology, University of North Bengal, March 16, 2012.

### **RESEARCH INTERESTS**

- Microbiology
- Molecular Biology
- Environmental Microbiology
- Biotechnology

### **SOFTWARE AND PROFESSIONAL SKILLS**

Bioinformatic tools/software: MEGA, CHROMAS, PAST, SPSS, MINITAB

**LANGUAGES KNOWN**

English, Nepali, Hindi and Bengal

**DECLARATION**

I certify that the information given in this CV is correct and complete to the best of my knowledge and belief.

**Date:** 01/08/2023    **Place:** Guwahati



Upashna Chettri