


	Title	First Name	Last Name	Photograph			
Name	DR.	DEEPIKA	MAZUMDAR				
Designation	Assistant Professor						
Educational Qualification	M.Sc, NET, Ph.D, B.Ed, GATE, NE-SLET						
Date of Joining	01.07.2019						
Department	Microbiology						
Address							
Local	C/O Dr. Shyama Prasad Saha, E/26, Near Gate No. 3, University of North Bengal						
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Teaching Experiences (Present & Previous)	<ul style="list-style-type: none"> • Three years as Assistant professor in Department of Microbiology, NBSXC, Rajganj • Two years as Assistant teacher in Siliguri Model High School, Siliguri 						
Research Interests	<ul style="list-style-type: none"> • Plant-microbe interaction • Enzymology 						
Awards	<ul style="list-style-type: none"> • Best poster award in 22nd West Bengal State Science & Technology Congress- 2015 						
ADMINISTRATIVE RESPONSIBILITIES	<ul style="list-style-type: none"> • University examination paper setter • University examination paper evaluator • University examination paper scrutinizer 						

• **PUBLICATIONS: 09 journal publications and 2 book chapters**

Some Major Research Articles In Journals

- **2021.** RSM based optimization of plant growth promoting rhizobacteria and nitrogen dosage for enhanced growth and yield of mustard (*Brassica campestris* L.) In **Journal of Plant Nutrition**. Volume 44, Issue 15, 2021 doi.org/10.1080/01904167.2021.1889585 ISSN0910-4167
- **2021.** Functional characterization of thermotolerant microbial consortium for lignocellulolytic enzymes with central role of Firmicutes in rice straw depolymerization. In **Nature Scientific Reports**. 11(1):3032. doi: 10.1038/s41598-021-82163-x. ISSN 2045-2322
- **2020.** Ammonium metabolism in *Selaginella bryopteris* in response to dehydration-rehydration and characterization of desiccation tolerant, thermostable, cytosolic glutamine synthetase from plant. In **Functional Plant Biology**. doi.org/10.1071/FP20144 ISSN1445-4416
- **2019.** Isolation, screening and application of a potent PGPR for enhancing growth of Chickpea as affected by nitrogen level. In **International Journal of Vegetable Science**. Vol. 26, No.4, 2019. ISSN 1931-5279
- **2019.** Optimization of process parameter for alpha-amylase produced by *Bacillus cereus* amy3 using one factor at a time (OFAT) and central composite rotatable (CCRD) design based response surface methodology (RSM). In **Biocatalysis and Agricultural Biotechnology**. Vol. 19, 2019. ISSN 1878-8181
- **2019.** Microbial amylases and their potential application in industries: A review. In **The Pharma Innovation Journal**. Vol 8(6): 162-170 2019. ISSN 2277-7695
- **2018.** *Klebsiella pneumoniae* rs26 as a potent PGPR isolated from chickpea (*Cicer arietinum*) rhizosphere. In **The Pharma Innovation Journal**. 7(11): 56-62, 2018. ISSN 2277-7695
- **2018.** Enhancing the thermostability and reusability of endoxylanase obtained from *Bacillus cereus* xym11 by calcium alginate entrapment method. In **International Journal of Basic and applied research**. Vol. 8 No. 11, 2018 ISSN 2249-3352 (P) 2278-0505 (E)
- **2016.** Cloning and Expression of Phytase appA Gene from *Shigella* sp. CD2 in *Pichia pastoris* and Comparison of Properties with Recombinant Enzyme Expressed in *E. coli*. In **PLOS ONE**. Vol.11, No.1, 2016. ISSN

Book Chapters

- **2022:** “**Potential of Plant Growth Promoting Rhizobacteria for enhancement of plant growth and its role in improving soil health under abiotic stress**” in S. Roy, P. Mathur, A.P. Chakraborty and S.P. Saha (Eds.) *Plant Stress: Challenges and Management in the New Decade* Springer Publication, 2022
- **2021:** “**Microbial Diversity In The Water Bodies Of Several Biogeographic Regions Of India**” in S.N. Sinha (Ed.) *Microbiology of Water: A Practical Approach*, New Delhi: India, 2021

SEMINARS/ CONFERENCES	
	<p><u>A. International Seminars/Conferences (Recent)</u></p> <ol style="list-style-type: none"> 1. Delivered an Oral presentation in the International Symposium conducted by the Association for the Advancement of Biodiversity Science in 2015 2. Delivered Oral presentation in International seminar on ‘Current Avenues in Microbial and plant Sciences’ conducted by University of Gourbanga, WB in 2019 <p><u>B. National/Regional/State Level Seminars and Conferences (Recent)</u></p> <ol style="list-style-type: none"> 1. Delivered Oral presentation in National seminar on ‘Vistas in Life Science Research’ conducted by University of North Bengal, WB in 2019. 2. Delivered Oral presentation in National seminar on ‘Recent Advances in Translational Research’ conducted by Department of Biotechnology, University of North Bengal, WB in 2020 3. Delivered Oral presentation in National seminar ‘Microbial World 2020’ on Applied Microbiology conducted by Department of Microbiology, University of North Bengal, WB in 2020 4. Presented Poster entitled ‘Screening of rhizospheric bacteria for multiple PGPR activities and their application on the growth of Chick pea (<i>Cicer arietinum</i>) under different nitrogen conditions’ on National seminar on Applied Microbiology: Microbial World, 2014, organized by Dept. of Microbiology 5. Participated in seminar cum workshop on Bioinformatics organized by Bioinformatics facility, NBU in 2015 6. Attended satellite conference, 22nd West Bengal State Science & Technology Congress-2015 7. Participated in seminar cum workshop on Bioinformatics organized by Bioinformatics facility, NBU in 2009 8. Participated in National conference ‘MIDICON 2010’ organized by Microbiology dept., NBU in 2010 9. Participated in lecture workshop on ‘Modern trends in Chemistry and chemistry education organized by Dept. of Chemistry, NBU in 2012 10. Participated in national seminar on Micro and Macro resources in Biomolecular technology organized by the dept. Of Biotechnology & Microbiology, NBU in 2013 11. Attended workshop on ‘Intellectual Property and Innovation Management in knowledge Era’ organized by National Research Development Corporation, New Delhi and NBU in 2013

