

## FACULTY PROFILE

### DR. TANIMA PAUL



DEPARTMENT OF FOOD AND NUTRITION  
MAHARANI KASISWARI COLLEGE

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#### Academic qualifications:

University	Degree	Year of the degree
Vidyasagar University	B.Sc.	2009
Vidasagar University	M.Sc.	2011
University of Kalyani	Ph.D.	2019

#### Positions held before:

- Worked as **Part Time faculty** at Department of Biotechnology, JIS University from **07.01.2019 to 30.06.2019**.
- Worked as **Lecturer** at Department of Microbiology, Guru Nanak Institute of Dental Sciences and Research from **29.11.2017 to 30.11.2018**.
- Worked as **Project Fellow** at Department of Microbiology, University of Kalyani from **09.10.2012 to 09.10.2015** under UGC Major research project entitled “Methods for extraction and purification of environmental DNA from soil approaching magnetic nanoparticles: Microbial diversity analysis and construction of metagenomic library”.

**Research Interest:** Soil bacterial diversity and nanotechnology

#### List of Publications:

- Tanima Paul, Semanti Basu & Keka Sarkar. SPION-mediated soil DNA extraction and comparative analysis with conventional and commercial kit-based protocol, *3 Biotech* (2014) 4:669–677.
- Tanima Paul, Saptarshi Chatterjee, Arghya Bandyopadhyay, Dwipirtha Chattopadhyay, Semanti Basu & Keka Sarkar. A Simple One Pot Purification of Bacterial Amylase From Fermented Broth Based on Affinity Toward Starch-Functionalized Magnetic Nanoparticle, *Preparative Biochemistry & Biotechnology* (2015) 45:501–514.
- Semanti Basu, Tanima Paul, Priya Yadav, Abhijit Debnath & Keka Sarkar. Molecular study of indigenous bacterial community composition on exposure to soil arsenic concentration gradient, *Polish Journal of Microbiology* (2017) 66(2):209 - 221.
- Subhendu Dhibar, Priya Yadav, Tanima Paul, Keka Sarkar, Asoke Prasun Chattopadhyay, Anna Krawczuk and Biswajit Dey. A bio-relevant supramolecular Co(II)-complex for selective fluorescence sensing of  $\mu\text{M}$  range inorganic As(III) in aqueous medium and its intracellular tracking in bacterial systems, *Dalton Transactions* (2019) 48:4362 – 4369.

## **CONFERENCE/ SEMINAR/ WORKSHOP/ SYMPOSIUM ATTENDED**

### **International:**

- Participated in International Conference, 3rd India Biodiversity Meet 2015, organized by Indian Statistical Institute, Kolkata held on 16th to 18th November 2015. (Poster presentation)
- Participated in International Symposium on Genetic Analysis: Translational and Developmental (iNSGTD-2014) organized by The University of Burdwan, WB held on 21st to 23rd November, 2014. (Poster presentation)
- Participated in International conference on “Microbial World: Recent Innovations and Future Trends”, 53rd Annual conference of Association of Microbiologists of India (AMI) organised by KIIT University, Bhubaneswar, Odisha held on 22nd to 25th November, 2012. (Poster presentation)
- Participated in 4th International conference on “Advanced Nano Materials” organized by IIT Madras, Chennai, Tamil Nadu held on 17th to 19th October, 2012. (Poster presentation)

### **National:**

- Attended DST-PURSE sponsored National seminar on “Emerging Trends in Environmental Resource Management” organized by Department of Ecological Studies, University of Kalyani held on 31st March, 2016.
- Participated in National seminar on “Plant and microbe: Diversity and Utilization” organized by Department of Botany, Visva-Bharati, Santiniketan, WB held on 19th to 20th March, 2016. (Oral Presentation)
- Attended National seminar on “Interdisciplinary Approaches in Science, Humanities and Culture” organized by Kalyani University research Scholars’ Association, University of Kalyani, West Bengal held on 28th to 29th May, 2014.
- Participated in National conference on “Utilization of Plant & Microbial resources” organized by Department of Botany, Visva-Bharati, Santiniketan, WB held on 17th to 18th March, 2012. (Oral presentation)

### **Others:**

- Attended DST-PURSE sponsored special seminar on “Frontiers of research in Microbiology” jointly organized by Department of Microbiology & Department of Molecular Biology & Biotechnology, University of Kalyani held on 17th March, 2016.
- Attended DST-PURSE & University of Kalyani Sponsored seminar series on “Current Trends of Modern Biology Research in Health and Diseases”, “Trends in Nanomaterials and Biomedical Science Research” and “Telomerase and Telomere Biology: from Molecule to Disease” organized by Department of Biochemistry & Biophysics, University of Kalyani, on February 29th, March 4th and March 15th 2016.
- Attended One day Workshop on “Intellectual Property Rights”, jointly organized by Department of Microbiology, University of Kalyani & Patent Information Centre, West Bengal State Council of Science and Technology, DST, Govt. of West Bengal held on 10th March, 2016.
- Attended Workshop on “Statistical Techniques used in Research” organized by Department of Statistics, The University of Burdwan held on 16th to 19th February, 2016.

- Attended training programme on “Molecular methods of bacterial identification” organised by Central Inland Fisheries Research Institute (ICAR), Barrackpore, Kolkata, WB held on 10th to 15th December, 2012.
- Attended workshop on “Intellectual Property Rights on Recent Development in Science & Technology and Societal Implications” jointly organized by Patent Information Centre West Bengal State Council of Science & Technology (WBSCST) & Department of Microbiology, University of Kalyani, West Bengal on 7th September, 2012.

**Awards:**

- Best poster award from Society for Biotechnology (India) in an International Symposium on Genetic Analysis: Translational and Developmental (iNSGTD-2014) held on November 21th to 23rd, 2014 organized by The University of Burdwan.
- First prize for standing first in B.Sc. Microbiology Honours at Raja Narendralal Khan Women’s College under Vidyasagar University on 2009.

**Knowledge of ICT tools and techniques:**

Computer Skills: Computer proficient with commendable knowledge of MS Word, MS Excel, MS Power point, Internet handling, Basics of software and hardware.

Software handling: SPSS, Origin Pro, Photoshop, MEGA, Quantity one, Adobe Acrobat.

Basic knowledge of bioinformatics: BLAST, Sequence editing, Pairwise alignment, multiple alignment and database searching, submission of sequences to NCBI for getting accession number