



## Dr. Prasenjit Das

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- Designation:** Assistant Professor
- Department:** Microbiology (Under Graduate & Post Graduate)
- Qualification:** M.Sc., Ph.D
- Specialization:** Environmental and Agricultural Microbiology

### Employment Details

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- ✚ Teaching in the Under Graduate and Post Graduate level since 2005 in Vijaygarh Jyotish Ray College
- ✚ Head of the Department of Microbiology since 2010
- ✚ Member of the Board of Studies for M.Sc in Microbiology in Vijaygarh Jyotish Ray College since 2005 and actively involved in syllabus and examination system modifications

### Published Work

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#### Publication in Journal

1. **Das, P.**, Sinha, S., & Mukherjee, S. K. (2014). Nickel bioremediation potential of *Bacillus thuringiensis* KUNi1 and some environmental factors in nickel removal. *Bioremediation Journal*, 18(2), 169-177. ISSN: 1088-9868 print / 1547-6529 online (Impact Factor- 0.5)
2. Hossain, S. T., **Das, P.**, & Mukherjee, S. K. (2013). Toxicity of cadmium nanoparticles to *Bacillus subtilis*. *Toxicological & Environmental Chemistry*, 95(10), 1748-1756. ISSN: 02772248 (Impact Factor- 0.825) <http://dx.doi.org/10.1080/02772248.2014.907902>

#### Publication in Conference Proceeding:

1. **Abstracts published for Poster Presentation** on “Isolation and Characterization of Nickel Accumulating Bacterial Strain From Nickel Contaminated Soil Sources For Effective Bioremediation” in International Seminar (2011) organized by Dept. of Biotechnology & Bioinformatics Centre, Barkatullah University, Bhopal
2. **Abstracts published for Poster Presentation** on “Isolation and characterization of a possible nickel bioremediating microorganism” in UGC sponsored National Seminar

(2011) organized by Dept. of Zoology, Vidyasagar College, Kolkata & Zoological Survey of India.

3. Abstract published for poster presentation on “Isolation and Characterization of Nickel Resistant Soil Bacteria as prospective Bioremediating Agent” in UGC sponsored National Seminar (2012), organized by P.G. Dept. of Microbiology, Bidhannagar College & Dept. of Biotechnology, Heritage Institute of Technology, Kolkata
4. Abstracts published for Poster Presentation on “Transportation of Nickel and its intracellular compartmentalization in a Ni resistant bacterial isolate *Bacillus thuringiensis* KUNi1” in International Seminar (2013) organized by Indian Society of Chemists & Biologists, Lucknow & Dept. of Chemistry, Mohanlal Sukhadia University, Udaipur
5. Paper published on “Isolation, Characterization, Intracellular Accumulation and Compartmentalization of Nickel in a Nickel Resistant Bacterial Isolate *Bacillus thuringiensis* KUNi1” in National Seminar (2014) organized by Dept. of Microbiology, Ramakrishna Mission Vidyamandira & CSIR-IICB, Kolkata
6. Paper published on “A Study of the Transportation Process of Nickel in a Nickel Resistant Bacterial Isolate *Bacillus thuringiensis* KUNi1” in International Seminar (2017) organized by Dept. of Microbiology, Ramakrishna Mission Vidyamandira

### Seminar/Conference/Workshop Attended

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1. UGC Sponsored state level seminar in 2005 on “ Frontiers of Applied Biology And Biotechnology” organized by Sammilani Mahavidyalaya
2. National Symposium in 2007 on “21st Century Research in Biophysics & Biochemistry” organized by Department of Biochemistry and Biophysics, University of Kalyani, West Bengal
3. UGC sponsored Workshop in 2008 on Syllabus of B.Sc.(Microbiology) Course of Calcutta University
4. Workshop cum Seminar on “Intellectual Property Rights with emphasis on Microorganism and Plant Variety Protection” jointly organized by Patent Information Centre, West Bengal State Council of Science & Technology, DST, Govt. of West Bengal and Department of Microbiology, University of Kalyani in collaboration with Patent Facilitating Centre, Technology Information Forecasting & Assessment Council, DST, Govt. of India in 2009.
5. Symposium in 2010 on “Challenges of Teaching Microbiology in Undergraduate Colleges” organized by University of Calcutta
6. UGC Sponsored National level Seminar on “Present Scenario and future Prospects of Microbiology and Plant Biotechnology.” Organized by Department of Botany and Department of Microbiology, Asutosh College Kolkata in collaboration with Bose Institute, Kolkata in 2011
7. “Statistical Methodologies in Modern Biology” organized by Centre for Modern Biology, University of Calcutta in 2011
8. University level seminar in 2014 on “Microbial structuring and its role in marine and other ecosystems functioning” organized by Department of Microbiology, University of Calcutta.
9. One week short term course in 2015 on Soft Skills Development and Stress Management

organized by IQAC, Vivekananda College & Centre for Counselling Services and Studies in Self- development (CCSSS), Jadavpur University

10. One Day workshop on NAAC Assessment and Accreditation (Cycle II) organized by Jogesh Chandra Chaudhuri College in collaboration with West Bengal State Council of Higher Education in 2015
11. One week short term course in 2016 on “Soft Skill , Stress and Well Being” organized by IQAC, Vijaygarh Jyotish Ray College and Centre for Counselling Services and Studies in Self-Development (CCSSS), Jadavpur University

### Completed and ongoing Research Projects

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- ✚ UGC funded Minor Research Project titled “Studies on nickel-microbe interaction and its potential use for sustainable agriculture” Sanction No. F.PHW-107/11-12 (ERO). Fund Received: Rs. 1,59,400. Duration: 2011-2013. Project status: Completed

### Completed and ongoing Student Summer Projects

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Year	Name of the Summer Trainee	Project Title
2012	1. Anurag Shandilya; Vijaygarh J.R. College, Dept. of Microbiology, M.Sc Section	Study of growth parameters of a nickel hyperaccumulating bacteria <i>Bacillus thuringiensis</i> KUNi1 isolated from East Kolkata industrial wasteland
	2. Pijush Saha; Vijaygarh J.R. College, Dept. of Microbiology, M.Sc Section	Isolation and characterization of a nickel accumulating microorganism for rhizoremediation
2013	3. Ayan Kayal; Vijaygarh J.R. College, Dept. of Microbiology, M.Sc Section	Investigation of the capacity of a nickel resistant bacterium <i>Bacillus thuringiensis</i> KUNi1 in soil mineralization and role of nickel in its enzyme activity
	4. Indrajit Dutta, Vijaygarh J.R. College, Dept. of Microbiology, M.Sc Section	Transportation of nickel and its intracellular chemical nature in Ni resistant bacterial isolate <i>Bacillus thuringiensis</i> KUNi1
	5. Md. Kasif; Vijaygarh J.R. College, Dept. of Microbiology, M.Sc Section	A study of the effect of Nickel on protein expression and cell aggregation of a soil bacterium <i>Bacillus thuringiensis</i> KUNi1 and its plant growth promoting ability

<p><b>2014</b></p>	<p>6. Romit Mitra; Presidency University, Dept. of Molecular Biology &amp; Genetics</p> <p>7. Anwasha Chanda; Presidency University, Dept. of Molecular Biology &amp; Genetics</p>	<p>Isolation, characterization and determination of plasmid mediated nickel resistance property of <i>Bacillus thuringiensis</i> KUNi1 for effective bioremediation</p> <p>Studies on some biochemical aspects of a nickel resistant bacterial isolate <i>Bacillus thuringiensis</i> KUNi1 for its use as a potential bioremediating agent in nickel contaminated soil</p>
<p><b>2016</b></p>	<p>8. Sudip Kumar Bhar Vijaygarh J.R. College, Dept. of Microbiology, M.Sc Section</p> <p>9. Agnijita Dutta Vijaygarh J.R. College, Dept. of Microbiology, M.Sc Section</p> <p>10. Poulomi Chakraborty Vijaygarh J.R. College, Dept. of Microbiology, M.Sc Section</p>	<p>8. Effect of Heat killed <i>Leishmania donovani</i> UR6 and BCG in exosome upon murine Peritoneal macrophage functioning</p> <p>9. A preliminary study for determining immunomodulatory effect of exosomes in <i>Leishmania donovani</i> UR6 &amp; BCG vaccine</p> <p>10. Comparative study of Exosomal and Direct system of <i>Leishmania donovani</i> UR6 and BCG in Macrophage induction</p>

## Awards/Recognition

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- ✚ **2<sup>nd</sup> Prize in Poster Presentation** on “Isolation and characterization of a possible nickel bioremediating microorganism” in UGC sponsored National Seminar (2011) organized by Dept. of Zoology, Vidyasagar College, Kolkata & Zoological Survey of India
- ✚ **Reviewed several papers for publication in international peer-reviewed journals**