



ENLIGHTENMENT TO EXCELLENCE

UNIVERSITY OF NORTH BENGAL

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Raja Rammohunpur, Dist- Darjeeling, West Bengal, Pin-734013, India.

Department of Microbiology

Print



DR. PAYEL SARKAR

Dr. Payel Sarkar

M.Sc.(H.N.B. Garahwal University), Ph.D. (NBU)

Assistant Professor (Contractual)

Members of Learned Societies: Member of Association of Microbiologists of India.

Contact Addresses:

Contact No.	+91-9609962400
Mailing Address	Department of Microbiology, University of North Bengal, P.O.- NBU, Dist- Darjeeling, West Bengal, Pin -734013, India.
e-Mail	payal.jobs83@gmail.com

Subject specialization: Microbiology

Areas of Research Interest: My research area is Environmental and Applied Microbiology. The key interest is to understand the microbial communities and apply them to provide solutions to some of the current world's most pressing issues, such as, alternative energy sources (biofuels), remediation of industrial pollutions.

No. of Ph.D. students: (a) Supervised: 00 (b) Ongoing: 00 .

No. of M.Phil. students: (a) Supervised: Nil (b) Ongoing: Nil .

No. of Publications: 07

Achievement & Awards:

- Awarded with ASTIF, Amity University Research Scholar Fellowship (2009-10)
- University rank holder in B.Sc. examination: 1st class 2nd
- University rank holder in M.Sc. examination: 1st class 2nd

Professional experiences:

- **Teaching experience: 8 years 3 months**
 - Lecturer in Dept of Microbiology in Amity Institute of Microbial Biotechnology, Amity University (2008 - June 2010).
 - Assistant Professor in Dept of Microbiology, University of North Bengal (Aug 2010 - till date).
- **Research experience: 7 years**

Selective List of Publications:

1. Effective Degradation of Organic Waste with emphasis on kitchen waste using Microbial Consortium (2010). Payel Sarkar, Rajshree Saxena, Mukesh Meghvanshi and Rajni Singh. *ICBFS 2010 Thomson ISI, British Library and Nelson P66-68*.
2. Microbial Consortium for Effective Degradation of Organic Kitchen Wastes (2010). Payel Sarkar, Rajshree Saxena, Mukesh Meghvanshi and Rajni Singh. *International Journal of Environmental Science and Development (IJESD. ISSN: 2010-0264, P132-136)*
3. Microbial Consortium: Synergistic Approach in Biodegradation of Organic Kitchen Wastes (2011). Payel Sarkar*, M.K Meghvanshi and Rajni Singh. *(International Journal of Environmental Science and Development., 2(3).*
4. Isolation and molecular characterization of extracellular keratinase from *Xanthomonas* sp.: a potential approach in feather waste management (2012). Payel Sarkar, Espita Dutta, and Rohan Banerjee. *Asian J of Sc and Tech., 1(1):38-46*.
5. Bioremediation potential of a newly isolated solvent tolerant strain *Bacillus thermophilus* PS11 (2012). Payel Sarkar and Shilpi Ghosh. *J. BioSci. Biotech., 1(2): 141-147*.
6. Degradation of aromatic petroleum hydrocarbons (BTEX) by a solvent tolerant bacterial consortium (2013). Payel Sarkar, Andrew Roysten Rai and Shilpi Ghosh. *Journal of Urban and Environmental Engineering., 7(2):274-279*.
7. Purification and characterization of solvent stable lipase from a solvent tolerant strain of *Geobacillus stearothermophilus* PS 11(2016). Payel Sarkar, Khusboo Lepcha and Shilpi Ghosh. MS accepted in *Journal of Microbiology, Biotechnology and Food Sciences., 5(6)*.