

Name: Dr. Paromita Banerjee
Designation: Principal and Associate Professor
Department: Faculty of Allied Health Sciences



Educational Qualification(s):

Qualification(s)	University	Year of Completion
B.Sc.(Hons)	University of Calcutta	2005
M.Sc.	University of Calcutta	2007
PhD	IISER Kolkata	2014

Experience in years:

Academic and Research: 11 years

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1.	Faculty of Allied and Health Sciences, ICFAI Tripura	Principal and Associate Professor	2026	Present
2.	AIIMS Rishikesh	Scientist C	2023	2025
3.	Kalinga University	Assistant Professor	2022	2023
4.	IISER Kolkata	Research Fellow	2020	2022
5.	Rajabazar Sc. College, University of Calcutta	Post doctoral Research Associate	2017	2020
6.	Rajabazar Sc. College, University of Calcutta	Research Fellow	2016	2017
7.	A.P.C. College, New Barackpore	Guest Faculty	2015	2015

Other Information:

a) Publication details:

1. Thatte, Swapnil, **Paromita Banerjee**, Mayank Vatsa, Richa Singh, Bhanu Duggal, Angshuman Paul (2026) MFA-U-Net: U-Net with Multi-level Feature Aggregation for Scale-free Medical Image Segmentation, Proceedings of the Sixteenth Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP 2026). Article 30. Association for Computing Machinery (ACM). DOI: 10.1145/3774521.3774554T
2. Kumar, Prashant, Dheeraj Chitara, Sourodip Sengupta, **Paromita Banerjee**, Sachchida Nand Rai (2025) Microbial consortia in biotechnology: applications and challenges in industrial processes, 3 Biotech. Volume 15, Article 386. DOI: 10.1007/s13205-025-04558-1
3. Anuradha Mahato, **Paromita Banerjee**, Rutvik Narendrabhai Jethava, Bhanu Duggal, Angshuman Paul, Mayank Vatsa, and Richa Singh (2024). PSIVUS: Atherosclerotic Plaque Segmentation in Intravascular Ultrasound Images via Active Learning. **Pattern Recognition**. vol 15328. Springer, Cham. DOI: 10.1007/978-3-031-78104-9_11.
4. Shilpa Malakar, Priya Sutaoney, Harishkumar Madhyastha, Kamal Shah, Nagendra Singh Chauhan, **Paromita Banerjee*** (2024) Understanding gut microbiome-based machine learning platforms: A review on therapeutic approaches using deep learning, **Chemical Biology and Drug Design**. Volume 103, March 2024. DOI: 10.1111/cbdd.14505
5. Priya Sutaoney, Sachchida Nand Rai, Sakshi Sinha, Rachana Choudhary, A.K. Gupta, Santosh Kumar Singh*, **Paromita Banerjee*** (2024) Current perspective in research and industrial applications of microbial cellulases. **International Journal of Biological Macromolecules Volume** 264, April 2024, DOI: 10.1016/j.ijbiomac.2024.130639
6. Abhinash Kumar, Saurav K Saha, **Paromita Banerjee**, Tapas K Sengupta (2023) Antibiotic induced biofilm formations in *Pseudomonas aeruginosa* strains KPW1.S1 and HRW1.S1 are associated with increased production of eDNA and exoproteins, increased ROS generation and increased cell hydrophobicity. **Current Microbiology**. Volume 81, November 2023, DOI: 10.1007/s00284-023-03495-7
7. Sampad Kumar Parida, **Paromita Banerjee**, and Deepa Biswas (2023) Enumeration of Aeromycoflora Diversity in the Central Library of Kalinga University. **ES Food & Agroforestry**, Volume 14, December 2023, DOI: 10.30919/esfaf966.
8. Moumita Sinha, Faiz Bux, I.Arjun Rao, **Paromita Banerjee*** (2023); Metal/Metal Oxide Nanoparticles – A matter of concern for forensic environmental toxicology, **European Chemical Bulletin** 12 1159-1170, DOI: 10.31838/ecb/2023. 12.s1.122.

9. **Paromita Banerjee**, Neelam Ahirwar, Moumita Sinha, Oral Microbial Identity (OMI) (2022) – A potential tool for forensic science. **Indian Journal of Forensic Medicine and Pathology**. Volume 16, Number 1, January-March 2023. DOI:10.21088/ijfmp.0974.3383.16123.6
10. **Banerjee, P.**, Chatterjee A., Sushmita Jha., Nirbhay K. Bhadani., Datta, P. P., and Sengupta, T. K. (2021) “Biochemical, molecular and in silico characterization of arsenate reductase from *Bacillus thuringiensis* KPWP1 tolerant to salt, arsenic and a wide range of pH”. **Archives of Microbiology**. 204:46(1-13). DOI: 10.1007/s00203-021-02660-5.
11. Sourodit Sengupta, Sankar Addya, Diptomiti Biswas, **Paromita Banerjee**, Jayasri Das Sarma (2021), “Matrix metalloproteinases and tissue inhibitors of metalloproteinases in murine β -coronavirus-induced neuroinflammation”, **Virology**. 566 (2022) 122–135. DOI: 10.1016/j.virol.2021.11.012.
12. **Banerjee, P.**, Soni, J., Purwar, H., Ghosh, N. and Sengupta, T. K. (2013) ‘Probing the fractal pattern and organization of *Bacillus thuringiensis* bacteria colonies growing under different conditions using quantitative spectral light scattering polarimetry’, **Journal of Biomedical Optics**, 18(3). DOI: 10.1117/1.JBO.18.3.035003.
13. Roy, M. K., **Banerjee, P.**, Sengupta, T. K. and Dattagupta, S. (2010) ‘Glucose induced fractal colony pattern of *Bacillus thuringiensis*’, **Journal of Theoretical Biology**, 265, 389-395. DOI: 10.1016/j.jtbi.2010.05.016.
14. Dey, S., **Banerjee, P.** and Saha, P. (2009) “Cell cycle specific expression and nucleolar localization of human J-domain containing co-chaperon Mrj,” **Journal of Molecular and Cellular Biochemistry**, 322, 137-142. DOI 10.1007/s11010-008-9950-y

(b) Details of Seminar/Workshop/Conference:

1. 50th Annual Conference of the Association of Microbiologists of India (AMI 2009) — “Third Golden Era of Microbiology”
2. 79th Annual Meeting of the Society of Biological Chemists (India) -2010
3. 52nd Annual Conference of the Association of Microbiologists of India (AMI 2011)
4. FIMB, IISER Kolkata: Frontiers in Modern Biology, 2012
5. FIMB, IISER Kolkata: Frontiers in Modern Biology, 2013
6. FIMB, IISER Kolkata: Frontiers in Modern Biology, 2014

(c). Professional membership of reputed bodies if any:

1. Life Member of SBCI India
2. Life Member of Indian Science Congress
3. Life Member of American Society of Microbiology
4. Alumni Member of IISER Kolkata