

Curriculum Vitae



Dr. Santanu Pailan

Assistant Professor, Department of Biotechnology,
The University of Burdwan

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ACADEMIC QUALIFICATION:

	Year of Passing	University
M. Sc (Microbiology)	2009	Department of Microbiology, The University of Burdwan
Ph.D. (Microbiology)	2017	Department of Microbiology, The University of Burdwan

OTHER ACADEMIC QUALIFICATION:

- Qualified NET Examination in Life Sciences (conducted by CSIR-UGC; December, 2009; Lectureship)
- Qualified GATE 2009 & 2010 (in Life Sciences)
- Awarded JRF by State fellow scheme in 2010 & SRF in 2012 from The University of Burdwan

PH.D. THESIS TITLE: Microbial Degradation of Organophosphate Insecticide by the Selected Isolates.

TEACHING AND RESEARCH EXPERIENCES:

- Presently serving as **Assistant Professor** in the Department of Biotechnology, The University of Burdwan since 2019.
- Worked as **Guest Faculty** in the department of Microbiology of Surendranath College, University of Calcutta for more than one year.
- **Six and half years (6.6 yr) of Doctoral** research work and still associated with the department of microbiology, The Burdwan University for research work.

RESEARCH PUBLICATIONS:

1. **Santanu Pailan**, Debdoot Gupta, Snehal Apte, Srinivasan Krishnamurthi, Pradipta Saha (2015). Degradation of organophosphate insecticide by a novel *Bacillus aryabhatai* strain SanPS1, isolated

from soil of agricultural field in Burdwan, West Bengal, India. *International Biodeterioration and Degradation* 103: 191-195. IF-4.32

2. **Santanu Pailan** and Pradipta Saha (2015). Chemotaxis and degradation of organophosphate compound by a novel moderately thermo-halo tolerant *Pseudomonas* sp. strain BUR11: evidence for possible existence of two pathways for degradation. *PeerJ* 3:e1378; DOI 10.7717/peerj.1378. IF-2.98
3. **Santanu Pailan**, Kriti Sengupta, Urmimala Ganguly, Pradipta Saha (2016). Evidence of biodegradation of Chlorpyrifos by a newly isolated heavy metal tolerant bacterium *Acinetobacter* sp. strain MemC14. *Environmental Earth Sciences* 75:1019. DOI 10.1007/s12665-016-5834-8, IF-2.784
4. Debdoot Gupta, Samiddha Banerjee, **Santanu Pailan** & Pradipta Saha (2016). In silico Identification and characterization of a hypothetical protein of *Mycobacterium tuberculosis* EAI5 as a potential virulent factor. *Bioinformatics* 12(3): 182-191. IF-0.5
5. K Sengupta, M Alam, S Pailan, P Saha (2019) Biodegradation of 4-nitrophenol by a Rhodococcus species and a preliminary insight into its toxicoproteome based on mass spectrometry analysis. *Journal of Environmental Biology* (40 (3), 356-362. IF-0.78

BOOK CHAPTER

1. S Pailan, K Sengupta, P Saha (2020) Microbial metabolism of organophosphates: key for developing smart bioremediation process of next generation. *Microbial Technology for Health and Environment* (361-410)

SEMINARS, WORKSHOPS AND CONFERENCES ATTENDED:

1. Attended work shop on Fluorescence Microscopy conducted by USIC, Burdwan University, 2012.
2. Oral presentation at the 21st West Bengal State Science Congress-2014.
3. Paper and poster presentation at International Symposium on Genetic Analysis Translational and Developmental conference, University of Burdwan, 2014.
4. Paper presentation at International Conference (Mother Earth: Save I to Achieve a Sustainable Future for All) University of Burdwan, 2014.

SEMINARS PARTICIPATION:

1. 2nd International conference in “Frontiers in Biological, Environmental and Medical Sciences” organized by The University of Burdwan (2019).
2. State level conference in “2nd regional Science & Technology Congress” organized by The University of Burdwan (2019).

DATABASE DEPOSITS ETC. (GENBANK ACCESSION NUMBER FOR 16S RRNA GENE SEQUENCES):

16S rRNA gene sequences from 18 isolated pure Organophosphate insecticide degrading bacterial cultures:

KF887017, KF887018, KP216767, KJ920200, KJ920201, KR080498, KF887019, KR072212, KR072211, KR080499, KR080500, KR080501, KR080502, KR080504, KR080505, KR080503, KR080507 and KR080506.

DECLARATION:

I, Santanu Pailan hereby declare that the information furnished by me is true to the best of my knowledge and belief. I also understand that any discrepancy found in the above information will render me liable for cancellation of my candidature.

Date: 03-11-2021

Place: Baruipur, Kolkata-144

Santanu Pailan

Signature