Dipti Mayee Dash, Ph.D.

Guest Faculty

Department of Biotechnology

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EDUCATION

Degree	Board/University	Institution	Year of passing
Ph.D. Environmental Biotechnology	Vellore Institute of Technology	Vellore Institute of Technology, Vellore, Tamil Nadu	2015-2022
M.Sc Biotechnology	Vellore Institute of Technology	Vellore Institute of Technology, Vellore, Tamil Nadu	2013-2015
B.Sc Biotechnology	Utkal University, Odisha	Trident Academy of Creative Technology, BBSR, Odisha	2010-2013

LIST OF PUBLICATIONS (International/National)

S.N.	Article details	
1.	Dash, D.M. and Osborne, W.J. A systematic review on the implementation of advanced and evolutionary biotechnological tools for efficient bioremediation of organophosphorus pesticides. Chemosphere. 2023 Feb; 313: p.137506.	8.943
2.	Dash D.M. and Osborne W.J. Rapid biodegradation and biofilm-mediated bioremoval of organophosphorus pesticides using an indigenous Kosakonia oryzae strain-VITPSCQ3 in a Vertical-flow Packed Bed Biofilm Bioreactor. Ecotoxicology and Environmental Safety. 2020 Apr 1; 192:110290.	7.129
3.	Dash D.M. and Osborne J.W. Biodegradation of monocrotophos by a plant growth	3.519

	promoting Bacillus aryabhattai (VITNNDJ5) strain in artificially contaminated soil.	
	International Journal of Environmental Science and Technology. 2019; 17(3):1475-90.	
4.	Dash, D.M., Itusha, A., and Osborne, J. <i>Bioremoval of Acephate by biofilm-forming Enterobacter cloacae - VITDAJ8</i> . Asia Pacific Journal of Molecular biology and Biotechnology. 2020; 28(4):68-80	SNIP 0.26
5.	Dash, D.M., Itusha, A., Barik. M., Das. A. and Osborne J.W. <i>Biosurfactant Production by Bacterial Isolates from Marine Sediments.</i> J. Pure Appl. Microbiol. 2014, 8 (6):5045-5050	SNIP 0.29

SEQUENCES SUBMITTED TO NCBI (GENBANK)

Strains	Accession no.	Authors	Year
Enterobacter aerogenes (VITDAMJ1)	KJ437479	M.D. Dipti, I. Ankita, B. Monalisa, and W.J. Osborne	2014
Bacillus amyloliquefaciens (VITAMDJ1)	KP100335	Ankita I, Monalisa B, Dipti M. D. and Osborne W. J.	2014
Enterobacter cloacae (VITDAJ8)	KP305912	Dash, D., Itusha, A. and Osborne, J.W.	2014
Kosakonia oryzae (VITPSCQ3)	KR149275	Dash, D.M., Osborne, J.W.	2015
Bacillus aryabhattai (VITNNDJ5)	KU598848	Dash, D.M., Purshotham, N., Udaykumar, N. and Osborne, J.W.	2016
Pseudomonas indica (VITPADJ5)	KU598847	Dash, D.M., Oak, P.S., Dawdani, A.R. and Osborne, J.W.	2016
Enterobacter ludwigii (VITDJ2)	MH101750	Dash,D.M. and Osborne,J.W.	2018
Ochrobactrum daejeonense (VITDJ8)	MN258541	Dash,D.M. and Osborne,J.W.	2019

CONFERENCES (ORAL/POSTER)

- Dipti Mayee Dash and Osborne, J.W.; "Co-metabolic biodegradation of Organophosphorus pesticides
 using consortium of plant growth-promoting rhizobacteria", National Seminar on Marine Natural
 Products as Pharmaceutical Agents (NSMNP) at Sathyabama Institute of Science and Technology, 2019
- Dipti Mayee Dash and Osborne, J.W.; "Biodegradation of monocrotophos by a plant growth promoting Bacillus aryabhattai (VITNNDJ5) strain", *International conference on recent advances in biomedical* technology (RABT) at Thiruvalluvar University, Vellore, 2018

3. **Dipti Mayee Dash** and Osborne, J.W.; "Application of a high throughput method for the biodegradation of Curacron and Quinalphos: A bioreactor based approach", *International Conference on Current Trends in Biotechnology (ICCB)* at Vellore Institute of Technology, India, 2016

WORK EXPERIENCE

Research Experience

- Mini project on "Biosurfactant Production by Bacterial Isolates from Marine Sediments" (July 2013 Nov 2013) at VIT, Vellore
- Mini project on "Isolation of endophytes from fig, garlic and pepper and their role in the biosynthesis of bioactive compounds" (Jan 2014 – April 2014) at VIT, Vellore
- Mini project on "Preliminary studies on the bioremoval of monocrotophos and acephate using bacterial biofilm based bioreactor" (July 2014 – Nov 2014), at VIT, Vellore
- Master thesis: Six months dissertation on "Application of a high throughput method for the degradation of curacron and Quinalphos using bacterial biofilm: A bioreactor based approach" (Dec 2014 - June 2015), at VIT, Vellore
- <u>Ph.D. thesis:</u> Doctoral research on "Phyto and Rhizoremediation strategies for the biodegradation of Organophosphorus pesticides: A metagenomic approach" (July 2015 – April 2022) at VIT, Vellore
- Formerly working as Teaching cum Research Associate at Vellore Institute of Technology (Jan 2015 Jan 2020)

Teaching Experience

Assisted and handled UG/PG level laboratory classes for the following subjects

Institution	Laboratory courses
	Advanced Microbiology
	Agricultural Microbiology
Vellore Institute of Technology	Plant biochemistry and physiology
Vellore, India	Molecular biology
(2015-2020)	Bioremediation
	Food biotechnology
	Fermentation Technology