Miam Sheba.V
Assistant Professor
Department of Biotechnology, Microbiology & Bioinformatics
National College
Trichy
Ph:9884726278
miriamsheba@nct.ac.in

Professional Summary

Dedicated and research-driven has 5 years of experience in Marine Microbiology. Proven track record in publishing peer-reviewed research and delivering lectures. Committed to advancing knowledge and fostering academic excellence.

Education

Ph.D (Persuing)
Biotechnology

M.Sc Biotechnology

B.Sc Microbiology

Academic Appointments

Assistant Professor
Department of Biotechnology, Microbiology & Bioinformatics
National College (2017- till date

Project Assistant
National Institute of Oceanography

Research Interests

My primary research interest lies in Environmental Biotechnology, with a special focus on the marine environment.

- Microbial Contributions to Biogeochemical Cycling: Investigating how marine microorganisms influence and participate in biogeochemical cycles, including the cycling of nutrients and trace elements.
- Methane and Carbon Dioxide Mitigation: Exploring microbial strategies and biotechnological approaches for the reduction and management of greenhouse gases such as methane and carbon dioxide.

Publications

Peer-Reviewed Journal Articles

- **V. Miriam Sheba**, Muralibabu Ashwin Srinivas, Peketi Aditya, C. Prasana Kumar and T. Nargis Begum. Activity and Identification of Culturable Methanotrophs from Mangrove Sediments, South East Coast of India. *J Pure Applied microbiol.* *2*024. *https://doi.org/10.22207/JPAM.18.3.28.*

- **Miriam Sheba**, J Jayaprakash, PG Nisha, B Balaji Prasath, S Debora, T Nargis Begum. Influence of seasons and environmental variables on methane dynamics in the Muthukuda Mangrove sediments of Tamil Nadu. *Journal of Environmental Biology, 2024, Vol 45, Issue 4, p438.*

- **V. Miriam Sheba**, C. Prasana Kumar, B. Balaji Prasath and T. Nargis Begum. Polyphasic identification of Cyanobacteria from Muthukuda mangrove, South East coast of India. *Ecology, Environment and Conservation, 2024* (Accepted for publication.)

- PP Sujith, **V.Miriam Sheba**, MJBD Gonsalves. Diversity and activity of methanotrophic related bacteria in subsurface sediments of the Krishna - Godavari Basin, India. *Current Science, May 2016. Vol 110, No 9, 1801-1809*

- PP Sujith, MJBD Gonsalves, V Rajkumar, **V.Miriam Sheba** . Manganese cycling and its implication on methane related processes in the Andaman continental slope sediments. - *Marine and Petroleum Geology, 2014. Vol 58, 254-264*

Grant

- **Received institutional seed money fund (National College)**

Training Imparted To

- US students of FEERAAL – India, with field and laboratory work

Awards

- Best paper award: Influence of seasons and environmental variables on methane dynamics in the Muthukuda Mangrove sediments of Tamil Nadu 8th Internationa

Academic Presentations

- 2009. Methanotrophs in coastal waters of the Arabian Sea- off Goa. **Climate changes during the Quaternary: Special reference to Polar regions and Southern Ocean**. **Miriam Sheba. V**, Marilyn A. Fernandes, Maria Judith Gonsalves.
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- 2009. Sulphate reducing bacteria as modulators of methane concentrations. **Climate changes during the Quaternary: Special reference to Polar regions and Southern Ocean**. Marilyn A. Fernandes, **Miriam Sheba**. **V**, Maria Judith Gonsalves.

- 2010. Distribution of bacterial population in the Arabian sea off Goa. AMSO - **International Conference on Aquatic Microbiology (Status, Challenges and Opportunities). Miriam Sheba. V**, Maria Judith Gonsalves.

Cruise Experience : CRV Sagar Sukti 176