

FEMI ANNA THOMAS



Assistant Professor, Post Graduate and Research Department of Zoology,
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PhD, Goa University - National Centre for Polar and Ocean Research, Goa, India

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Specialization	Microbial Ecology of High Arctic ecosystems; Marine Biology, Zoology	
Education	PhD, School of Earth, Ocean and Atmospheric Sciences, Goa University-NCPOR, India; Thesis titled " <i>Bacterial diversity and its interaction with metals in glacio-marine environment of Arctic</i> ", Supervisor: Late Dr. K. P. Krishnan, Scientist-F, NCPOR	2023
	MSc. in Marine Biology, First Class with Distinction, Cochin University of Science and Technology, Kerala, India	2013-2015
	BSc. in Advanced Zoology and Biotechnology, First Class with Distinction, Women's Christian College, Madras University, Chennai, India	2010-2013
Professional Appointments	Assistant Professor, Post Graduate and Research Department of Zoology, Union Christian College, Aluva, Kerala	Nov, 2022-till present
	Project Scientist II, Marine Biotechnology, National Institute of Ocean Technology, Chennai, India	Aug, 2022-Nov, 2022
	Senior Research Fellow, Arctic Division, National Centre for Polar and Ocean Research, Goa, India	2017-2021
	Junior Research Fellow, Arctic Division, National Centre for Polar and Ocean Research, Goa, India	2015-2017
Publications	Ruck, K. E., Arndal, M. F., Biebow, N., Dahl, J., Flått, S., Granskog, M., Holste, S., Lenz, J., Mercer, J., Perttu, Anna-Maria., Pausch, F., Rasch, M., Samuelsson, M. Sundfjord, A., Thomas, F. A. , Topp-Jørgensen, E. and Willmott, V. International access to research infrastructure in the Arctic. <i>Polar Record</i> .	2022
	Thomas, F. A. , Sinha, R. K, Hatha, A. A. M., Krishnan, K. P. <i>Phenylobacterium glaciei</i> sp. nov., isolated from Vestrebrøggerbreen, a valley glacier in Svalbard, Arctic. <i>International Journal of Systematic and Evolutionary Microbiology</i> .	2022
	Thomas, F. A. , Mohan, M., Krishnan, K. P. Bacterial diversity and their metabolic profiles in the sedimentary environments of Ny-Ålesund, Arctic. <i>Antonie van Leeuwenhoek</i> .	2021

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	Thomas, F. A. , Sinha, R. K., Krishnan, K. P. Bacterial community structure of a glacio-marine system in the Arctic (Ny-Ålesund, Svalbard). <i>Science of The Total Environment</i> . 2020	2020
	Jain, A., Krishnan, K. P., Begum, N., Singh, A., Thomas, F. A. , Gopinath, A. Response of bacterial communities from Kongsfjorden (Svalbard, Arctic Ocean) to macroalgal polysaccharide amendments. <i>Marine Environmental Research</i> . 2020	2020
	Jain, A., Krishnan, K. P., Singh, A., Thomas, F. A. , Begum, N., Tiwari, M., Bhaskar, V. P., Gopinath, A. Biochemical composition of particles shape particle-attached bacterial community structure in a high Arctic fjord. <i>Ecological Indicators</i> . 2019	2019
	Sinha, R. K., Krishnan, K. P., Thomas, F. A. , Binish, M. B., Mohan, M., Kurian, P. J. Polyphasic approach revealed complex bacterial community structure and function in deep sea sediment of ultra-slow spreading Southwest Indian Ridge. <i>Ecological Indicators</i> . 2019	2019
	Potdar, S., Daniel, D. K., Thomas, F. A. , Lall, S. and Sheeba, V. Sleep deprivation negatively impacts reproductive output in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> . 2018	2018
	Sinha, R. K., Krishnan, K. P., Singh, A., Thomas, F. A. , Jain, A. and Kurian, P. J. <i>Alteromonas pelagimontana</i> sp. nov., a marine exopolysaccharide-producing bacterium isolated from the Southwest Indian Ridge. <i>International Journal of Systematic and Evolutionary Microbiology</i> . 2017	2017
Online Book Published	Holste, S., Dubeau, S., Ibáñez, M. M., Vural, D., Duncan, R., Gremion, G., Hancock, S., Rosenbaum, P., Burmenko, T., Thomas, F. A. , Rasch, M. INTERACT Reducing CO2 emissions in Arctic Science, Eds: Holste, S., Rasch, M., Topp-Jørgensen, E (2022), in INTERACT; Denmark 2022 by Stibo Complete A/S; DOI:10.5281/zenodo.6683739; ISBN: 978-87-93129-67-2	2022
Awards and Achievements	Young Polar Scientist Award for Best Oral Presentation under Theme: Environment and Ecology at National Conference on Polar Sciences organized by National Centre for Polar and Ocean Research	2023
	Represented India at the Arctic Frontiers Emerging Leaders 2020 conference held at Norway, funded by the Norwegian Embassy, India.	2020
	University First rank holder in MSc. Marine Biology from Cochin University of Science and Technology, Kochi, India.	2013-2015
	Council of Scientific and Industrial Research- National Eligibility Test (Lecturership), All India Rank- 22.	2015
	Graduate Aptitude Test in Engineering (GATE) in Ecology & Evolution (EY), GATE score: 408, All India Rank: 59.	2015
Conference Presentations	Thomas, F.A. , Venkatachalam. S, Krishnan, K.P. Uncovering the Genomic signatures of pollution in Arctic bacteria - a De-novo whole genome-based approach. National Conference on Polar Sciences, NCPOR, Goa, India (Poster and Oral).	2023
	Thomas, F.A. , Krishnan, K.P., Karpaga Raja Sundari, B., Rangamaran, V.R., Dharani, G, Resilient microbes living at the	2022

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extremes: A case study from the Arctic and Deep ocean environments. **4th IBSE International Symposium on Microbiomes in environment, space and in human health, IIT Madras, India** (Poster).

Thomas, F.A., Mohan, M., Krishnan, K.P, Bacterial community structure and their metabolic profiles in the sedimentary environments of Ny-Ålesund, Arctic. **American Geophysical Union Fall Meeting, New Orleans, USA** (Oral). 2021

Thomas, F.A., Krishnan, K.P. Insights into metal tolerant bacterial diversity associated with a glacio-marine system in Ny-Ålesund, Arctic. **Arctic Science Summit Week Conference** (Online Conference, Portugal) (Oral). 2021

Thomas, F.A., Sinha, R.K., Krishnan, K.P. Bacterial community structure in two fjord systems of Spitsbergen Arctic. **International Conference on Frontiers in Marine Science - Challenges and Prospects (MARICON), Kochi, India** (Poster). 2019

Thomas, F.A., Krishnan, K.P., Singh, A., Jain, A., Sinha, R.K., Mohan, M. Bacterial diversity along a glacio-marine transect in Ny-Ålesund, Arctic. **Young Polar Scientist Meet (YPSM), National Conference on Polar Sciences, Goa, India** (Poster). 2019

Thomas, F.A., Singh, A., Sinha, R.K., Antony, N., Krishnan, K.P. A preliminary study on heavy metal tolerant bacterial diversity in Arctic fjord sediments. **National Conference on Polar Sciences, Goa, India** (Poster). 2017

Field-Experience **Indian Arctic Expedition, Ny-Ålesund, Svalbard, Arctic.** 2018, 2017

Outreach Activities Club Coordinator, Kandal Club UCC (Mangrove Club of UCC), Union Christian College, Aluva

APECS (Association of Early Polar Career Researchers) Council member for 2020-21

Executive Council member for Association of Fisheries Graduates, Kerala, India.

Member of Early Career Ocean Professionals (ECOPS), India

Professional Skills De-novo whole genome analysis of bacterial isolates, Pangenome analysis for bacterial genomes, 16SrRNA V3-V4 amplicon sequencing analysis using QIIME2 platform, Culture-dependent bacterial diversity analysis, Bacterial characterization using Biolog GN2, GP2 and PM plates and community level metabolic profiling using Biolog Ecoplates, Quinone and Polar lipid analysis using Thin Layer Chromatography, Epifluorescence Microscopy, Hands on experience using - Ion Torrent system for amplicon sequencing and bacterial whole genome analysis, Sanger sequencer, Direct Mercury analyzer, HPLC, IC, IC-PMS and ICP-OES, Proficiency with R, ORIGIN, PRIMER and CANOCO statistical software

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Trainings undergone	One-Month Online National Faculty Induction Programme/Orientation Course organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education with an A+ Grade	2023
	Basics and Advanced Bioinformatics and custom Data Analysis for amplicon and whole genome data, ArrayGen Technologies Pvt Ltd, Pune, India.	2018
	10 days workshop on ' Microbial Identification, Preservation & Genome Analysis ', Microbial Culture Collection -National Centre for Cell Sciences, Pune, India.	2017
	Summer Research Fellowship of Indian Academy of Sciences (2014) at JNCASR Bangalore under the guidance of Dr. Sheeba Vasu on "Effects of chronic sleep deprivation on reproductive output in <i>Drosophila melanogaster</i> using caffeine as the sleep deprivant".	2014
	Internship on Karyotyping, Sree Ramachandra Medical College, Chennai, India.	2012
Internship on Bacteriological & Serological analysis, Pushpagiri Medical College, Kerala.	2011	

References

1. Dr. Thamban Meloth FNASc
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2. Dr. Manish Tiwari,
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3. Dr. A. A. Mohamed Hatha
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FEMI ANNA THOMAS

I hereby declare that all the information mentioned above is true and correct to the best of my knowledge.

A handwritten signature in blue ink, appearing to read 'Femi Anna Thomas', written over a horizontal line.