Dr. Valsamma Joseph, ***or***

Born in Erattayar, Idukki District, Kerala on 25th May 1970, Graduation in Botany from Mahatma Gandh

PROFESSIONAL QUALIFICATIONS

- **Associate Professor** , Cochin University of Science and Technology (CUSAT), (September, 2014 - Present)
- **Assistant Professor,** Marine Biotechnology, Cochin University of Science and Technology, (August, 2008 - 3rd
- **Principal Investigator** , Department of Science and Technology, Government of India, (March, 2008 - 28th
- **Research Associate** (Department of Biotechnology, Government of India), Cochin University of (April, 2005 - 29th
- **Postdoctoral Fellow** , Scripss Institutions of Oceanography, University of California, USA (1st

- **Postdoctoral Fellow** , CUSAT, Cochin University of Science and Techn (1st
- **Postdoctoral Fellow** , National Centre for Aquatic Animal Health, Cochin University of (1st
- **Postdoctoral Fellow** , School of Environmental Studies, Cochin University of Science and Tech (8th
- **Research Associate** , National Environmental Engineering Research Institute, Nagpur (25th

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Teaching and academic activities

At M.Tech. Level (Marine Biotechnology)

1. Marine Genomics and Proteomics
2. Marine Microbiology
3. Advances in Molecular biology (Lab)
4. Marine Algal Biotechnology
5. Fish and Shellfish Immunology and Aquaculture Environment Management

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Research Areas:

Marine biotechnology, Marine algal biotechnology, Aquatic environment health management

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Research Projects:

Sl. No.	Title of Project and Duration	Funding Agency	Amount	Status
1	Development of photobioreactors for mass production of marine microalgae	Kerala Biotechnology Commission	21,51,800/-	Completed
2.	Optimization of neutral lipid and biomass production by marine microalgae and expression pa	University Grants Commission	16,95,000/-	Completed
3	Metagenomics approaches to evaluate diversity of nitrifying bacteria in the	Department of Science and Technology	7,56,700/-	Completed
4	Metagenomic approach to cloning and expression of endo and exoglucanases and	(as Co-Investigator)	(28.09.2010 to 27.09.20	

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Awards/Fellowships/Scholarships

- 2014-Raman Postdoctoral Fellowship for Indian Scholars in USA by University Grants Commission
- 1999-Research Associateship, National Environmental Engineering Research, Institute, Nagpur
- 1998, 2001-Qualified National Eligibility Test for Lectureship in Environmental Sciences by Indian
- 1996-Senior Research Fellowship, Council of Scientific and Industrial Research
- 1991-1993-Merit Scholarship, Cochin University of Science and Technology during post graduation
- 1990-Mar Mathew Kavukatt Memorial Gold Medal for the best student in B.Sc Botany, Assumption

- 1987-90-Merit Scholarship, Mahatma Gandhi University, during Bachelors degree
- 1985-87 Merit Scholarship, Mahatma Gandhi University during Pre-Degree
- 1983-85 National Merit Scholarship for Talented Children from Rural Areas

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Doctoral works supervision (5)

1.Polyunsaturated Fatty Acid production in marine microalgae (Amruta Pandit)

2. Optimization of neutral lipid and biomass production by marine microalgae and expression pattern of

3. Diversity and abundance of key microbial functional groups involved in nitrogen biogeochemical cyclin

4. Metagenomic approaches for cloning and expression of novel cellulases from forest top soil (Devassy

5. Mass production of marine microalgae as live feed in aquaculture systems (Jisha Kumaran).

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M. Tech Research Projects (1 year) Supervision

1.Isolation and identification of marine microalgae from West coast off India and screening for neutral lip

2. A metagenomic approach for the characterization of bacterial and archaeal communities of zero wate

3. Metagenomics approaches to elucidate nitrifying bacterial community in a zero water exchange shrim

4. Marine microalga *Nannochloris* sp. as a potential source of polyunsaturated fatty acids

5. Polysaccharides from marine microalga *Dunaliella salina* : Characterization and application (Ancy Varghese),

6. Metagenomic approach to understand the bacteria associated with marine diatoms (Gnanadhivya R.)

7. Cobalamin acquisition and utilization in marine microalgae (Vinaya K.K.),

8. Sulphated polysaccharides from marine microalga *Dictyota dichotoma* : Screening for anti-white spot syndrome virus activity (L

9. Diversity of bacterial communities associated with marine diatoms: Molecular characterization and ph

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Publications:

Research Papers in Peer-reviewed Journals : 13
Books (Co-Edited) : 2
Papers In Conferences : 12
Book Chapters :2
GenBank Submissions (www.ncbi.nlm.nih.gov) : 152

Training/Workshops attended : 13
Invited lectures/talks: 6

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Address:

Official :

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Residence **:**

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