

# BIODATA

## GENERAL DETAILS

Name : SHEEBA V A  
Age & date of birth : 30 (21/05/1987)

## CONTACT DETAILS

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## ACADEMIC PROFILE

- **Submitted Synopsis of PhD entitled** “*Studies on Particle associated microorganisms in Cochin estuary and their response to metal pollution*” to the faculty of Environmental studies, CUSAT From National Institute of Oceanography, Regional centre cochin (CSIR) India
- Qualified UGC JRF (NET) in Environmental Science (2010).
- Qualified UGC NET eligibility for lectureship (NET) in Environmental Science (2009).
- Master’s in Environmental Sciences from University of Kerala with Third rank (2009).
- Bachelor of Science in Environmental Science and Water management from university of Kerala with Distinction (2007).

## TEACHING EXPERIENCE

- Guest lecturer in Environmental studies department of Malayalam University from March 2017( Continuing )

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## TECHNICAL SKILLS

- Heavy metal analyses using AAS, ICP OES, ICP MS
- Basics of culture dependant and culture independent methods in microbiology research
- Application of Denaturing Gradient Gel Electrophoresis (DGGE) in community structure analysis
- Application of Fluorescent in situ Hybridization (FISH) in Microbial Ecology
- Enzyme expression studies based on fluorescent substrates and plate diffused assays
  
- Metal resistance studies : Plate diffusion assays
- Environmental parameters analyses ( pH, salinity, Nitrate, Nitrite, Ammonia, Phosphate, Silicate, Protein, Carbohydrate, Lipid, Particulate organic Carbon , Nitrogen etc)
- GC based MIDI-MIS (Microbial Identification system) for the identification of bacteria by membrane fatty acid profile.
  
- Real time PCR

## PUBLICATIONS

- **Sheeba, V., A. Abdulaziz, et al.** (2017). "Role of heavy metals in structuring the microbial community associated with particulate matter in a tropical estuary." *Environmental Pollution* **231**: 589-600. NIO Contr. No. 6088
- Anas A, Jasmin C, **Sheeba VA**, Gireesh TR, Shanta Nair. Heavy metal pollution influence the community structure of cyanobacteria in Cochin Estuary, a nutrient rich tropical estuary across the southwest coast of India. 2015, *Journal Oceanography and Marine Research*.
- **Sheeba V A & Jaya.D .S**, Evaluation of ground water quality around Kazhakuttom market area in Thiruvananthapuram District, Kerala, *Proceedings of National seminar Emerging trends in Environment and development with a focal theme on Climate Change and Water Resouces*, 2009
- **Sheeba VA**, Saumya Nair, Diana Mathew, Gireesh TR, Anas A. Influence of upwelling on the distribution of bacteria and archaea in persistent mudbank regions of Alleppey, Southwest coast of India. *OSICON 2015, Goa India (POSTER)*

## FIELD EXPERIENCE

- Participated Short cruise on RV Sindhu Sadhana (SSD 014) conducted during 12-10-2014 to 21-10-2014

## TRAINING PROGRAMME & SEMINARS

- Team member of Workshop on “Basic techniques for the isolation and identification of health indicator bacteria from marine Environment” 2016.
- Training on *Coastal Ecosystem Modelling* organized by Govt of India , Ministry of Earth Sciences 2015
- Participated and presented a poster in 4<sup>th</sup> National Conference of the Ocean Society of India 2015
- Brain storming Workshop on “*Mudbanks of Kerala: The Known and Unknown*” organized by CSIR- National Institute of Oceanography Regional Centre Kochi 2014
- Team member of Work shop on “Basic Techniques for *Coastal Health Indicator Bacteria* “ organized by Marine Microbial Reference Facility (MMRF) CSIR –NIO RC Kochi 2014
- Participated National seminar on Climate Change and marine Ecosystems organized by the Department of Marine biology, Microbiology and Biochemistry, Cochin University of Science and Technology.2014
- Participated National seminar on Bioinformatics in Marine biology : Next generation sequencing technologies and Applications 2013
- Participated National seminar on Environmental Pollution – Modern Chemical Techniques in Industrial Effluent Management 2007
- Participated International seminar on Democratic & Secular Education 2009

## REFERENCE

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