

# Training Program on Marine Bacterial Diversity

February 21-25, 2012

Organized by



**Discipline of Marine Biotechnology and Ecology**

CSIR-Central Salt and Marine Chemicals Research Institute

G. B. Marg, Bhavnagar-364002, Gujarat

[www.csmcri.org](http://www.csmcri.org)



Over the past few decades, rapid developments in molecular biology, biochemistry and genomic technologies have contributed towards better understanding of structural and functional diversity of microbes that can be exploited for basic and applied research. Bacterial communities are much more diverse than we ever imagined. India - among 12 mega diversity hotspots - holds a great promise for the diverse kinds of bacteria with an array of biomolecules and genes. Marine and coastal habitats are recently gaining considerable attention because they support unique bacterial communities having wide range of plasticity. Under a major CSIR initiative to document and harness marine bacterial resources, a marine bacterial culture collection centre has been established at CSIR-CSMCRI. The institute is well equipped with modern facilities and has dedicated manpower for cutting edge R&D activities in the area of molecular microbiology including genomics, proteomics and metagenomics. Molecular systematics is crucial to solve the practical problems of taxonomy and helps understand the community structure and diversity of bacteria.

Under this CSIR initiative, CSIR-CSMCRI is organizing a “Training Program on Marine Bacterial Diversity” for the benefit of the research students and teachers working in the area of microbiology and microbial biotechnology.

### **Training Involves...**

- Microbial diversity measurement by Fluorescent and Scanning Electron Microscopy
- Preparation of axenic bacterial culture
- Whole cell fatty acid profiling (FAME) by GC coupled with MIDI
- Genomics- isolation of DNA and PCR amplification of 16s rRNA gene
- Metagenomics-isolation of metagenomes from soil samples, PCR amplification of 16s rRNA, cloning and analysis

### **Who should attend ?**

Research Scholars and teachers of colleges and universities involved in molecular microbiology/biotechnology related research and/or teaching are welcome to apply. The number of participants will be limited to 15-20.

Interested researchers/teachers may submit their applications in prescribed format by e-mail only (marine@csmcri.org) latest by 6th February, 2012. Selected candidates will be informed individually by e-mail. Selected participants will be paid to and from bus/ IIIAC train fare by shortest route after producing the original tickets. Shared accommodation and boarding will be provided free of cost.

### **Coordinator :**

Prof. B. Jha

### **Faculty :**

Dr. Amit Ghosh,  
Former Director CSIR-IMTECH,  
Chandigarh  
Dr. Rakesh Sharma,  
CSIR-IGIB, New Delhi  
Dr. K. H. Mody  
Dr. C. R. K. Reddy  
Dr. A. K. Siddhanta  
Dr. P. K. Agarwal  
Dr. S. Halder  
Dr. V. Mantri  
Dr. A. K. Parida  
Dr. A. Mishra

# Training Program on Marine Bacterial Diversity

February 21 -25, 2012



**CSIR-CSMCRI**

## APPLICATION FORM

1. Name :
2. Designation :
3. Address :
4. Telephone/Mobile :  
E-mail :

5. Qualification :

Degree	Year of Passing	University/ College	Subject	Grade/ Percentage
B.Sc.				
M.Sc.				
Ph.D.				
Ph.D. Title				

6. Justification on why you want to attend this program (not exceeding 100 words):

Signature of the candidate

Recommendation by Supervisor/Head of the Department with signature, seal and date

Scanned copy of the duly filled in application should be sent as an e-mail attachment to [marine@csmcri.org](mailto:marine@csmcri.org)