



National Facility for Marine Cyanobacteria (NFMC) is funded by the Department of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India which was established exclusively for the research on marine cyanobacteria. Now the Facility has been upgraded to the level of a National Repository for Microalgae and Cyanobacteria (NRMC). Now the Repository holds more than 1000 Microalgal and Cyanobacterial strains representing 780 mesophilic, 150 psychrophilic (Arctic & Antarctic), 20 thermophilic and 50 halophilic forms. More than 1000 institutes are its beneficiaries which includes Universities and Govt. research Organisations. NFMC is also a Sub distributed Bioinformatics centre (BIC) exclusive for cyanobacteria, where it has developed open source database CKB (Cyanobacterial Knowledge Base) of 74 completely sequenced genomes, an exclusive visualization tool for *Synechocystis* PCC 6303 - Syn Rio, Cyanopatt which can search pattern against any cyanobacterial genomic region of the query. Complete Catalog datasheet (with GPS values), the open source tools and Database are available in website (www.nfmc.res.in).

**Sub-DIC BIOINFORMATICS CENTRE
AND
NATIONAL FACILITY FOR MARINE CYANOBACTERIA
(Sponsored by DBT, Govt. of India)**

Bioinformatics Tools Developed by NFMC

**CKb - Database for
Cyanobacterial Research**



**SynRio- View *Synechocystis* 6803
chromosome using R and Shiny**

Syn-R-io Visual exploration of *Synechocystis*
6803 chromosome

**CyanoPatt - Search a Pattern against
Cyanobacterial genomic regions**

Cyano Patt Search a Pattern against
Cyanobacterial genomic regions

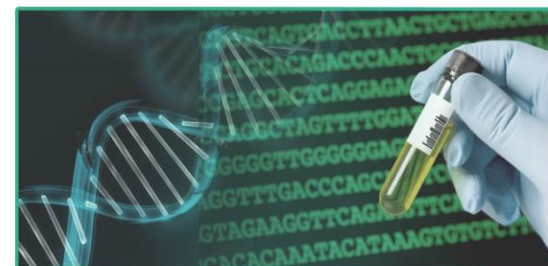
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**WORKSHOP ON
BIOINFORMATICS TECHNIQUES
FOR
ANALYSIS AND MODELLING**

MARCH 21-22, 2017



Organized by

**Sub - DIC - Bioinformatics Centre
National Facility for Marine Cyanobacteria**

(Sponsored by DBT, Govt. of India)

**Department of Marine Biotechnology
School of Marine Sciences**

BHARATHIDASAN UNIVERSITY

Tiruchirappalli 620 024

Overview

The Bioinformatics Centre (Sponsored by DBT, Govt. of India) at National Facility for Marine Cyanobacteria, Bharathidasan University started as Sub-DIC is working on the primordial organism cyanobacteria since 2001. BIC is organizing a two days National Workshop on **"BIOINFORMATICS TECHNIQUES FOR ANALYSIS AND MODELING"**

The workshop is planned on the bioinformatics techniques which will be helpful to the Masters degree students and aspiring researchers. The course is designed to provide the participants with the **"Hands- on-Training"** on fundamental bioinformatics techniques and tools.

The objective of the course is

To introduce them to Cyanobacterial Bioinformatics namely

- ☞ Sequence and structural analysis
- ☞ Sequence and phylogenetic analysis
- ☞ Molecular modelling and Protein Docking
- ☞ Primer designing, vector construction and
- ☞ Restriction analysis

Who Can Apply

Research Scholars/ Master degree students with ambitious knowledge on research in the area of Life Sciences preferably in the field of bioinformatics are eligible to apply.

How to Apply

1. Application should be sent through proper channel so as to reach here before 18th March 2017. Super scribed as "Application for National Workshop on **BIOINFORMATICS TECHNIQUES FOR ANALYSIS AND MODELING**" on the envelope. The selection list will be intimated 15th March 2017.

2. Email applications are also accepted provided if it is followed by proper channel application.

Number of participants will be restricted to 30

Registration

- ☞ Registration fee Rs. 200
- ☞ Registration material refreshments and working lunch will be provided

Accommodation & Travel

- ☞ Accommodation will be arranged on request basis.
- ☞ No TA/DA is admissible

How to Reach

Tiruchirappalli is located in the heart of Tamil Nadu well connected by road, rail and airways. The University is located on Pudukottai Road, state High way (15Km) from the Tiruchirappalli Central bus stand and Railway station. City and mofussil buses are available from Central bus stand. Place of accommodation will be intimated after selection.

Workshop on Bioinformatics Techniques for Analysis and Modeling 21st and 22nd March 2017

Registration form

Name:

Designation:

Age:Gender(M/F).....

Area of Specialization:

Organisation:

Address:

Email:

Phone No:

I here by declare that the particulars submitted in this application is true to the best of my knowledge

Date:

Place:

Signature of the
Applicant

Signature of the
Head of the Department
/ Institution with seal

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