



Organized by.....

**Bioinformatics Center**

(Sub-Center of BTISNET, DBT, Govt. of India)

Sponsored by

**Department of Biotechnology,**

**Govt. of India New Delhi**



**Department of Biotechnology,  
Barkatullah University Bhopal-**

**462026 (M. P.), India**

**Organizing Committee:**

Dr. Ragini Gothalwal, Coordinator  
Dr. Anil Prakash, Professor  
Mr. Kishor Shende, Information Officer  
Mr. Durgesh Gupta, Tech. Assistant  
Mrs. Archaana Nema, Computer Prof.  
Mr. Chandan Singh Bisht, DEO

**Coordinator:**

Dr. Ragini Gothalwal, Coordinator

**Laboratory Instructor:**

Mr. Srikant Chilara, Traineeship  
Mr. Rajendra Verma, Studentship

**Contact Person:**

Mr Kishor Shende, Information Officer  
**E-mail:** kishor556@hotmail.com

**Postal Address:**

**Bioinformatics Center (SubDIC)**

**Department of Biotechnology,**

**Barkatullah University**

**Bhopal-462026 (M. P.), India**

**Phone: +91-755-2491848, 2491849,**

**Fax: +91-755-2491850,**

**E-mail: [bicbubhopal@hotmail.com](mailto:bicbubhopal@hotmail.com)**

**[bioinfo.bhopal@gmail.com](mailto:bioinfo.bhopal@gmail.com)**

**Web site: [www.bioinfobubpl.nic.in](http://www.bioinfobubpl.nic.in)**

**REGISTRATION FORM**

**National Workshop  
on Bioinformatics**

**“Phylogenetic Analysis:  
Techniques and Tools”**

**January 17 – 21, 2012**

Name: (upper case) \_\_\_\_\_

DOB \_\_\_\_\_ Sex \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Postal address: \_\_\_\_\_

E-mail \_\_\_\_\_@\_\_\_\_\_

Contact No. \_\_\_\_\_

Accommodation Required:

Yes/No: \_\_\_\_\_

### About Bioinformatics Center:

Bioinformatics Center is one of the Sub-DIC of DBT, Govt. of India, under BTISNET program established at Department of Biotechnology, Barkatullah University Bhopal during the year 2002-03. Center has organized 18 workshops in Bioinformatics. 60 students from various institutes have done dissertation/project works in different areas of Bioinformatics. Center is also involved in Bioinformatics research and published number of papers and abstracts. Students, research scholars and faculties are provided with infrastructure facility and guideline on computational techniques.

### Scope of the Topic:

Phylogenetic analysis is the base of biodiversity study. It is a multivariate statistical technique called Cluster analysis. Number of different algorithms and tools are developed for phylogenetic analysis. Merely generating the data won't solve the problem but need to process through best suited methods to come to conclusion. Among the different algorithms available which one is better for specific data types is also a question. Lots of question arises in mind regarding the phylogenetic analysis. Is my data sufficient? Which software is best? What algorithm of tree optimization should be used? Which one is the best algorithm for distance matrix method? How will I interpret the results? Is the obtained dendogram is best one? What is the necessity of data replication? Which method is best? How to start and how to continue with phylogenetic analysis till dendogram generation? Lots of question... This workshop is an effort to solve such questions.

### Workshop Contents:

- Phylogenetic analysis principles and methods,
- Available tools:
  - PAST, PHYLIP, MEGA, UGENE, JEMBOSS other Online tools
- Different types of data Analysis:
  - Sequence data;
  - RAPD, RFLP and AFLP data;
  - Morphological data
- Data Replication methods: Bootstrap and JackKnife
- Tree (dendogram) visualization
- Tree Editing & Interpretation
- Case studies

### Methodology:

Lectures, Demonstrations and Hands on Practical

### Level of Participants:

PG Students, Research Scholars, Faculties and Scientist

### Prerequisites:

Computer and Internet operation, Practical knowledge of Molecular Biology and Biochemistry

**Number of Participants:** Limited Applications will be scrutinized and selection confirmation will be send to participants. Final selection will be on the basis of fee submission.

### Last Date of Registration:

**Jan 10<sup>th</sup>, 2011**

### Registration Fee:

**Rs. 1000** for PG Students

**Rs. 1500** for Research scholars, Faculties and Scientist

**Mode of Fees submission:** Demand Draft of issued by any Nationalized Bank in favor of **“Registrar, Barkatullah University Bhopal”**, payable at **“Bhopal”** should be submitted along with completely filled registration form, at Center's Address.

\***Accommodation** will be provided on request with extra charges (First come first basis)



**Barkatullah University Bhopal**

<http://www.bubhopal.nic.in/>