

**UGC-Networking Resource Centre
Fourth Teacher/Researcher Training Workshop on
Molecular Phylogenetics at Indian Institute of Science**

Applications from teachers and researchers from university and affiliated institutions are invited to the **Fourth Workshop on Molecular Phylogenetics** being held during 1–5 November 2011 at Indian Institute of Science.

In the last two decades there has been an astronomical increase in DNA sequence data in various public databases. In recent times complete genomes of numerous organisms have also been sequenced. Additionally there have been tremendous advances in sequence analyses methods and computational power of computers. These developments have contributed towards the explosive growth in phylogenetic studies. Today in labs across India DNA sequence data is routinely generated in various genetic diversity and phylogenetic studies. However these data are often not analysed appropriately due to lack of training in molecular phylogenetics.

This rigorous, individualized, hands-on training course will provide participants an opportunity to learn the basic principles of molecular phylogenetics and its applications in biology.

The course consists of theory and computer lab classes. Course topics are: Distance, Parsimony, Likelihood and Bayesian approaches to tree building, historical biogeography, phylogeography, character evolution, molecular clock and dating nodes, molecular markers, hypothesis testing in phylogenetics framework. Hands-on training will be conducted in MEGA, PAUP, MrBayes, BEAST and S-DIVA. Participants are encouraged to bring their sequence alignments for analysis.

The course is aimed at taxonomists, biogeographers, zoologists, botanists, evolutionary biologists and biologists in general who are interested in phylogenetics.

Applicants below 45 years should send a brief bio-data including a paragraph on current research being carried out and list of publications if any to **The Coordinator** of the UGC Networking Centre. No specific format is required for applying. Since the number of seats is limited, preference will be given from early to mid-career research-oriented university and college teachers, professionals, postdoctoral fellows and registered Ph.D. students. Please note that Candidates pursuing M.Sc. degree or working temporarily in projects are not eligible.

Boarding and lodging will be arranged at the Institute, and travel expenses by train, according to the Institute guidelines, will be reimbursed by the UGC-NRC. For more information, you are advised to visit the UGC Networking Centre website at <http://mcbl.iisc.ernet.in/UGC/>. You may contact us at the address UGC-NRC-DBS, Department of Microbiology and Cell Biology, Indian Institute of Science, Bangalore 560 012, and send applications to **The Coordinator** at the e-mail address: ugc-nrc-dbs@mcbl.iisc.ernet.in.

Course convener : **Dr Praveen Karanth**
Number of seats : 20
Workshop dates : 1–5 November 2011
Application deadline : **20 September 2011**