

**Symposium & Workshop on
'High Throughput Data-Driven Biology'
12-14 September 2012**

Symposium

Innovative technologies have been constantly shifting the pace of biological research. Until recently, biologists produced their own data and analyzed them. However, high-throughput tools like DNA microarray and next-generation sequencing have created an urgent need for laboratory scientists to work closely with computational biologists/bioinformaticians. High-throughput data present considerable computational challenges for those not trained in computation and sophisticated computational and bioinformatics tools are how indispensable for biological quests. The symposium (12-13 Sept) will discuss some of the recent advances in the fields of population genomics, cancer genomics and plant genomics made possible by harnessing genomics data using sophisticated bioinformatics tools and bring together inter-disciplinary researchers to foster collaborative interactions.

Workshop

With access to large amounts of genomic data, researchers must frame the right scientific questions and design proper experiments to get biological insights. The workshop (13-14 Sept) is aimed at helping students and young researchers navigate high-throughput data using bioinformatics tools to obtain answers to some pre-selected scientific questions.

Speakers

Debasis Dash, Institute of Genomics and Integrative Biology, New Delhi
Jes Frellsen, University of Copenhagen, Denmark
Kumar Somasundaram, IISc, Bangalore
Malali Gowda, Centre for Cellular and Molecular Platforms, Bangalore
Mitali Mukherji, Institute of Genomics and Integrative Biology, New Delhi
Mukesh Jain, National Institute of Plant Genome Research, New Delhi
Neeraja Krishnan, Ganit Labs, IBAB, Bangalore
Niranjan Nagarajan, Genome Institute of Singapore, Singapore
Paturu Kondaiah, IISc, Bangalore
Shantanu Chowdhury, Institute of Genomics and Integrative Biology, New Delhi
Shuhua Xu, CAS-MPS Institute for Computational Biology, Shanghai, China
Shumpei Ishikawa, University of Tokyo, Japan
Subha Srinivasan, IBAB, Bangalore
Vamsi Veeramachaneni, Strand Life Sciences, Bangalore
Y. Y. Teo, University of Singapore, Singapore

Eligibility

Open to researchers, PhD students, post-graduate students in R&D establishments and to computation-savvy researchers who wish to explore existing genomic data to extract biological insights.

Registration

Please register by sending your CV along with a 300 word essay explaining how this program will benefit you to ddb@ibab.ac.in, before Aug 15, 2012. Number of participants is limited. Selected participants would be informed. No registration fees for academic participants.

IBAB and GANIT Labs

The Institute of Bioinformatics & Applied Biotechnology (IBAB) was established in 2001 and is located in the sprawling campus of 20 acres. It has built its reputation and has gained visibility as an institution well known for the excellent education in the interdisciplinary science of bioinformatics and has won appreciation both from industry and academia. IBAB is a 'Center of Excellence in Bioinformatics Training and Research' of the Department of Information Technology, Government of India. IBAB has played a very important role in seeding skilled human resources for companies in the area of life sciences and Bio-IT through its excellent and constantly evolving training and research programs. The institute offers a unique 2 year Master's program in 'Bioinformatics and Biotechnology' (Degree awarded by IGNOU, New Delhi) and a Ph.D programme under Manipal University.

Ganit Labs is a genome sequencing and translational genomics facility based in the IBAB campus, Bangalore, India. The lab uses second generation sequencing technologies and computer clusters to sequence, analyze and interpret genome data from a variety of organisms.