

National Workshop on Systems Biology Cellular Networks, Interactions and Functions

Why Systems Biology Training?

Systems biology facilitates a complete mechanistic and functional understanding of organisms in various states. It's recently known that the system-level analysis can be grounded on discoveries at molecular-level. With the progress and accumulation of high throughput molecular data and in-depth knowledge of molecular nature of biological systems, the scientists are now in position to look into the possibilities of system-level understandings of the biological systems.

Researchers/scientists/ bioinformatics professionals, students and teachers are invited to understand how the Systems Biology methods, tools and data are useful in their research and practice and to know the relevance of the area in terms of real biological applications, disease diagnosis and drug discovery.

The Training Recommended for:

Anyone associated with industrial or academic research in various fields of Life Sciences, Medical Sciences or Computer Science and Engineering.

Workshop Topics (With elaborated hands on training on Systems Biology Tools)

Systems Biology- An Overview

- Basic Concepts in Systems biology
- Metabolic Networks
- Transcriptional Regulatory Networks
- Signalling Networks
- Topology

Functional Genomics and Biological Networks,

- Functional Genomics Through Molecular Networks
- Molecular Networks, Functional and Signature Modules
- Expression Networks and Drug Targets/ Biomarker Discovery

Proteomics and Systems biology

- Systems Models from Proteomic Data
- Modelling Pathways and Interactions

Functional Annotation of Modular Networks

- Cellular networks and their Functions
- Pathways Cross-Talk and Cellular Functions

Various Computational Tools with Hands On

Key Speakers

Prof. Nagasuma Chandra,
Biochemistry, Indian Institute
of Science, Bangalore

Dr. Debnath Pal,
SERC, Indian Institute of
Science, Bangalore

Mr. Sanjeev Kumar,
CEO, BioCOS Life Sciences,
Bangalore

Dr. Shipra Agrawal,
Chief Scientific Officer,
BioCOS Life Sciences,
Bangalore

Conducted and Organized
by



BioCOS Life Sciences Private Limited
www.biocosls.com
www.biocosls.in
Bangalore

And



Bangalore

Dates:

9th and 10th Sept, 2011

Venue:

BMS College of Engineering
Bangalore

Registration Fees:

Corporate Participants: Rs.2500/
Academic Participants:

Rs.1700/ (Faculty), Rs.1200/ (Student)

*Group discounts will be available.

Registration Process
/ Query / Payment Details

Send a mail:

sysbioworkshop@biocosls.in

And

sysbioworkshopbms@gmail.com

with subject line "Systems
Biology Workshop Sept 2011"

(Call +91:
9535067633/9980026114/
9448376374/ 9448129693

For more details and
registration form visit:

www.biocosls.in

Call for Papers: One copy of the full paper (not exceeding 6 pages as per IEEE double column MS word format; *PDF format will not be accepted*) on any of the above and related topics should be sent to conference mail. The accepted papers with full registration fees paid will be published in the proceedings of the conference.

Hands on by BioCOS: BioCOS Life Sciences Pvt. Ltd. has a team of experienced expertise with many relevant international publications in the areas of Systems Biology with elaborated work experience in the area. Company has also developed novel computational products, which construct high quality systems biology models from various types' high throughput molecular data. Team BioCOS directly implement these models and analyses on live data relating to various systems.

Hand on sessions from BioCOS will teach the subjects with real examples from biological applications.