



Intensive Workshop on Proteogenomics and Mass Spectrometry Data Analysis

October 28 - 31, 2013
Institute of Bioinformatics, Bangalore

Institute of Bioinformatics (IOB) (<http://www.ibioinformatics.org>) is a premier center for Proteomics and Computational Biology. IOB has also established a state-of-the-art proteomics facility to discover and validate candidate biomarkers in human diseases including neurological disorders, infectious diseases and cancers.

Proteogenomics is an application of mass spectrometry-derived proteomic data for the annotation of genome. Proteogenomics allows us to improve the genomic information of organisms using proteomic data. Proteogenomic can help in the discovery of several novel and revised forms of genes, which are usually missed by the computational annotation of genome. IOB has been in the fore-front of this new area of research for the last five years.

Scientists at IOB will share their expertise in the Proteogenomics and mass spectrometry data analysis to highly motivated young researchers in India through this intensive workshop. We have successfully conducted four workshops on high resolution mass spectrometry - based proteomics. Several faculties and students from reputed National Institutes and Universities from India participated in these workshops (<http://www.ibioinformatics.org/workshop.php>).

This 4-day long intensive workshop will offer a theoretical and practical understanding of high-resolution mass spectrometry data and its application to proteogenomics. In the process, the participants will be exposed to various bioinformatics strategies and software used in annotation of protein-coding genes for any given genome.

Eligibility

Open to students and researchers from academia and industry. Applications must include a statement of purpose (<100 words) along with their CV.

Registration

Please visit http://www.ibioinformatics.org/registration_proteogenomics.php to register for the workshop. Participants will be selected on first-come, first-served basis. Participants can also reserve their slots by directly contacting the organizers.

Registration fee:

Participants from Academia - Rs. 20,000

Participants from Industry - Rs. 30,000

A discount of Rs.5000/- will be provided to the participants of a previous workshop at IOB.

Refreshments and lunch will be provided throughout the day.

Applicants can contact organizers for accommodation with an additional cost (Single occupancy Rs.1100/day; Deluxe sharing: Rs.800/day: inclusive of taxes).

Focus of the Workshop

- Principles of genome annotation
- Concept of proteogenomics
- Sample prep for proteogenomics
- LC-MS/MS analysis
- MS/MS data analysis
- Analysis of transcriptomic and proteomic data for genome annotation
- Case studies: *Mycobacterium tuberculosis*, *Leishmania donovani*, *Anopheles gambiae* and *Mangifera indica*

Resource Personnel

- Dr. T. S. Keshava Prasad
- Dr. Nandini A. Sahasrabudhe
- Dr. Ravi Sirdeshmukh
- Dr. Aditi Chatterjee
- Dr. Rajesh Raju

Contact

Institute of Bioinformatics, ITPL, Whitefield Road, Bangalore -560066, India
Ph: 080-28416140, E-mail: workshop@ibioinformatics.org