2-day workshop on -

Clinical Bioinformatics

(Only for clinicians)

7-8 February, 2017

Day-1.

Biomedical Research in the Genomcis Era: Next Generation Human Genetics

Timing : 2:00pm - 5:00pm

After sixty years of the discovery of the double helix and decade after the compilation of the Book of Life, biomedical research has taken off dramatically for the voyage to reach where no one has gone before. Our new found ability to routinely sequence and analyze individual genomes is revolutionizing the way we look at various diseases and it is significantly improving diagnosis, treatment and management of patients. I will talk about the methods and approaches used in present day biomedical genomics and how they are impacting our knowledge and practice of medicine.

Speaker : Dr. Arindam Maitra
Associate Professor
National Institute of Biomedical Genomics, Kalyani.

Day-2.

Basic Applications of Machine Learning Methods in Clinical and Molecular Data

Timing : 10:00am - 5:00pm

Machine learning techniques are increasingly being employed to address problems in computational biology and clinical informatics. With a rapid increase in the storage capacity and processing power of computers, this field has emerged as an indispensable resource for computer scientists, engineers, biologists, mathematicians, researchers, clinicians, physicians, and medical informaticists. Machine learning techniques such as support vector machines, random forests and neural networks have been successfully used for analyzing clinical data. The first half of the workshop will cover an introduction to machine learning algorithms and their implementation in clinical data analysis followed by hands-on training in the second half. This will also include an example of machine learning technique used in predicting protein-protein interactions between host and pathogens (published by our center).

By : Dr. Amita Barik and Mr. Ranjan Kumar Barman,
Biomedical Informatics Center, NICED, Kolkata

Venue : Biomedical Informatics Center
NICED, Beliaghata, Kolkata

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