CHINA-CHILE
ONLINE EDUCATION WEEK

TOPIC

DATA DRIVEN BIOMEDICAL DISCOVERY

TIME

09:00-10:00 (Santiago,Chile)

20:00-21:00 (Beijing, China)

November 26

/ ABSTRACT /

In recent years, data driven approaches have made a variety of contributions to disease analysis combining public data with in-house data in an attempt to increase biomedical understanding. Popular topics include the discovery, prediction, and analysis of disease genes, statistical analysis of SNPs and disease, the prediction and discovery of new drug targets, the development of the disease ontology and its application to the human genome, the analysis of disease related molecular interaction networks, the development of “disease networks”. In this talk we will present recent advances in these areas. Specific examples include: combining genomics and clinical data in cancer biomarker discovery; joint analysis of genomic and imaging features; phenotype driven disease diagnostics; and building disease network using genomic data warehouse. In summary, data driven approach has been playing key roles in translational medicine.

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Dr. Hui Lu is Distinguished Professor and Head of the Department of Bioinformatics and Biostatistics, Shanghai Jiao Tong University, Co-Director of SJTU-Yale Joint Center for Biostatistics, and Director of Center for Biomedical Informatics in Shanghai Children’s Hospital. His research areas include big data analysis in biomedical research, bioinformatics, biostatistics, molecular network modeling, systems biology, and drug design. His current research interests are in translational medicine: integrating multi-omics data and disease phenotypes, constructing disease network, investigating self-adapting methods for clinical trial, set up high speed genomics data processing pipeline, large scale patient record analysis, building a phenotype-genotype based diagnosis system.

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