The First EITA Bio Conference
(EITA-Bio 2008)

"Synergy of Bioinformatics and Biomedical Research"

Friend Center, Princeton University
Princeton, New Jersey, USA

Saturday, June 7, 2008

Program

Keynote

"On the protein structure-dynamics-function relationship"
Speaker: **Jenn-Kang Hwang**, Ph.D.
Dean, College of Biological Science and Technology
National Chiao Tung University (Hsinchu, Taiwan)

Session 1: Bioinformatics and Systems Biology (I)
Session Organizer: **Cathy Wu, Ph.D.**
Professor of Biochemistry and Molecular & Cellular Biology
Director of Protein Information Resource
Georgetown University (Washington, DC, USA)

"Application of Biomedical Informatics to Translational Research"
Hai Hu, Ph.D.
Deputy Chief Scientific Officer and Senior Director of Biomedical Informatics
Windber Research Institute (Windber, PA, USA)

"Biological Networks: A bistable Rb–E2F switch underlies the restriction point"
Guang Yao, Ph.D.
Postdoctoral Fellow
Molecular Genetics and Microbiology
Duke University (Durham, NC, USA)

"Biological Pathway and Network Analysis for Functional Interpretation of Large-Scale Omics Data"
Zhang-Zhi Hu, M.D.
Associate Professor and Associate Team Lead
Protein Information Resource, Georgetown University Medical Center (Washington, DC, USA)

Session 2: Cancer Biology (I)
Session Organizer: **Shridar Ganesan, M.D.**
Assistant Professor, University of Medicine and Dentistry of New Jersey (Newark, NJ, USA)

"Solving the Puzzle of Metastasis with an Agent-Based Model"
Carlo Maley, Ph.D.
Assistant Professor
Wistar Institute (Philadelphia, PA, USA)

"Biology of Basal-like breast cancer"
Shridar Ganesan, M.D.
Assistant Professor
University of Medicine and Dentistry of New Jersey (Newark, NJ, USA)

"Polymorphisms in P53 Pathway Genes and Clinical Associations in Breast Cancer"
Kim Hirshfield, M.D., Ph.D.
Assistant Professor of Medicine
University of Medicine and Dentistry of New Jersey

Session 3:Bioinformatics and Systems Biology (II)
Session Organizer: **Ouhyoung Ming, Ph.D.**
Professor of Computer Science and Information Engineering
Deputy Dean, College of Electrical Engineering and Computer Science
National Taiwan University (Taipei, Taiwan)

"Detecting RNA Motifs with RADAR"
Jason T.L. Wang, Ph.D.
Professor, Department of Computer Science
Director, Data and Knowledge Engineering Lab and Bioinformatics Center
New Jersey Institute of Technology (Newark, NJ, USA)

"Data-Driven Computational Function Association Networks in Cancer Study"
Jung-Hsien Chiang, Ph.D.
Professor, Institute of Medical Informatics
National Cheng-Kung University (Tainan, Taiwan)

"Identification of Robust Genomic Signatures via Multiple Cross Validation"
Spencer Chiang-Ching Huang, Ph.D.
Assistant Professor of Preventive Medicine
Northwestern University (Evanston, IL, USA)

Session 4: Cancer Biology (II)
Session Organizer: **Yibin Kang, Ph.D.**
Assistant Professor
Department of Molecular Biology
Princeton University (Princeton, NJ, USA)

"Genomic Gain of 8q22 Activates Metadherin and Promotes Chemoresistant Metastasis of Poor-Prognosis Breast Cancer"
Guohong Hu, Ph.D.
Postdoctoral Fellow, Department of Molecular Biology
Princeton University (Princeton, NJ, USA)

"Computer-aided Diagnosis of Breast, Prostate Cancer from Digitized Histopathology"
Anant Madabhushi, Ph.D.
Assistant Professor, Department of Biomedical Engineering
Rutgers the State University of New Jersey (Piscataway, NJ, USA)

Session 5: Bioinformatics and Systems Biology (III)

Session Organizer: **Frank Hsu, Ph.D.**
Clavius Distinguished Professor of Computer and Information Science
Associate Dean, Graduate School of Arts and Sciences
Fordham University (Bronx, NY, USA)

"Multidimensional scaling for large genomic data sets"
Henry Horng-shing Lu, Ph.D.
Professor, Institute of Statistics
National Chiao-Tung University (Hsinchu, Taiwan)

"Comparing Projection Neuron- and Neuromodulator-Elicited Network Oscillations: A Modeling Study"
Nickolas Kintos, Ph.D.
Visiting Assistant Professor, Department of Mathematics
Fordham University (New York, NY, USA)

"Modeling Genetic Inheritance of Copy Number Variations"
Mingyao Li, Ph.D.
Assistant Professor, Department of Biostatistics and Epidemiology
University of Pennsylvania (Philadelphia, PA, USA)

Panel Discussion

Topic: "Synergy of Informatics and Biomedical Research in Academia and Industry"
Moderators: Yibin Kang (Princeton University), Li-San Wang (University of Pennsylvania)

Panelists:
Shridar Ganesan (UMDNJ)
Hai Hu (Windber Institute)
Jenn-Kang Hwang (Chiao-Tung University, Taiwan)
Cathy Wu (Georgetown University)