



Symposium on Challenges in the Analysis of -omics Data

Date: March 30, 2012 (Friday)

Venue: Room 201, College of Public Health, National Taiwan University 17 Xu-Zhou Road, Taipei

Time	Agenda	Speaker	Moderator
8:30-9:00 AM		Registration	
9:00-9:10 AM	Welcome	Master of Ceremony: Dr. Yen-Ching Karen Chen (程蘊菁) Assistant Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University Host: Dr. Wei J. Chen (陳為堅) Dean, College of Public Health, National Taiwan University Distinguished Guest: Dr. Ching-Hua Lo (羅清華) Vice President for Academic Affairs, National Taiwan University Distinguished Guest: Dr. Pan-Chyr Yang (楊泮池) Dean, College of Medicine, National Taiwan University Director, Center for Genomic Medicine, National Taiwan University	
9:10-9:50 AM	Finding Genetic Markers for Disease: Some Challenges and Opportunities for Biostatisticians	Dr. Nan M. Laird Professor, Biostatistics, Harvard School of Public Health, Boston, MA	Dr. Ker-Chau Li (李克昭) Director, Institute of Statistical Science, Academia Sinica
9:50-10:30 AM	Genetic Epidemiology of Mental Disorders: Challenges in Identifying Genetic and Environmental Factors for Schizophrenia	Dr. Ming T. Tsuang (莊明哲) Director, Center for Behavioral Genomics, Department of Psychiatry, University of California, San Diego	Dr. Wei J. Chen (陳為堅) Dean, College of Public Health, National Taiwan University
10:30-11:00 AM		Coffee Break	
11:00-11:40 AM	Challenges in Identifying Biomarkers and Causal Mechanisms for Complex Mental Disorders	Dr. Stephen J. Glatt Assistant Professor, Department of Psychiatry and Behavioral Sciences, SUNY Upstate Medical University	Dr. Eric Y. Chuang (莊曜宇) Professor, Graduate Institute of Biomedical Electronics and Bioinformatics, National Taiwan University
11:40-12:00 AM	Detecting Rare Variants with a Random-Effects Model	Dr. Kuang-Fu Cheng (鄭光甫) Professor and Director, Biostatistics Center, China Medical University	Dr. Wen-Chung Lee (李文宗) Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University
12:00-13:00 PM		Lunch Time	
13:00-14:00 PM		Poster (Q&A)	
14:00-14:10 PM		Young researchers' forum	
14:10-14:20 PM	A marker-set approach using Bayesian regression model for family association studies	Mr. Yung-Hsiang Huang (黃詠詳) Doctoral candidate, Institute of Epidemiology and Preventive Medicine, NTU	Dr. Po-Hsiu Kuo (郭柏秀) Assistant Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University
14:20-14:30 PM	Bayesian hierarchical modeling for interaction between genes and contextual factors	Dr. Shi-Heng Wang (王世亨) Postdoctoral Fellow, Institute of Epidemiology and Preventive Medicine, NTU	
14:30-14:40 PM	Applying network and pathway analysis in -omic data	Dr. Chung-Feng Kao (高崇峰) Postdoctoral Fellow, Institute of Epidemiology and Preventive Medicine, NTU	
14:40-14:50 PM	Pathway analysis using information from allele-specific gene methylation in a genome-wide association study	Dr. Li-Chung Chuang (莊禮聰) Postdoctoral Fellow, Institute of Epidemiology and Preventive Medicine, NTU	
14:50-15:00 PM	Next Generation Sequencer Technologies for Human Whole Genome Re-sequencing and Applications	Dr. Hsuan-Yu Chen (陳璿宇) Assistant Research Fellow, Institute of Statistical Science, Academia Sinica	
15:00-15:10 PM		Section discussion	
15:10-15:30 PM	A Combination of cDNA, microRNA Arrays and Functional Assays to Identify a Novel Marker for Colon Cancer Prognosis	Dr. Suh-Hang Hank Juo (卓夙航) Director, Graduate Institute of Medical Genetics, Kaohsiung Medical University	Dr. Hai-Gwo Hwu (胡海國) Professor, Department of Psychiatry, National Taiwan University
15:30-16:00 PM		Coffee Break	
16:00-16:20 PM	On the Use of Genome-Wide SNP Data	Dr. Cathy S. J. Fann (范盛娟) Deputy Director, Institute of Biomedical science, Academia Sinica	Dr. Ming-Whei Yu (于明暉) Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University
16:20-16:40 PM	A Kernel-Weight-Based (KWB) Regularized Least Squares Support Vector Machine for Gene Selection	Dr. Chuhsing Kate Hsiao (蕭朱杏) Associate Dean, Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University	Dr. Jing-Shiang Hwang (黃景祥) Research Fellow, Institute of Statistical Science, Academia Sinica
16:40-17:00 PM	Detecting Weak Genetic Associations: Multiple Interaction Testing to the Extreme	Dr. Wen-Chung Lee (李文宗) Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University	Dr. Kuo-Liong Chien (簡國龍) Professor and Director, Institute of Epidemiology and Preventive Medicine, National Taiwan University
17:00-17:20 PM	Matrix Variate Logistic Regression Model with Application to Detection of Gene-Gene Interactions	Dr. Hung Hung (洪弘) Assistant Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University	Dr. Chuhsing Kate Hsiao (蕭朱杏) Associate Dean, Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University
17:20-17:30 PM	General Discussion & Closing remarks	Dr. Wei J. Chen (陳為堅) Dean, College of Public Health, National Taiwan University	

Registration allowed: 150

Web: <http://ntcrc.ntu.edu.tw/omics.html>



Sponsored by:

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