

Frontiers in Biological Sciences

CBIS Conference
July 21-24, 2007
Tsinghua University, Beijing, CHINA
Meeting Program

July 21, 2007

15:00 - 22:00 Registration

18:00 - 22:00 Social gathering at Peking University

July 22, 2007

8:00 - 8:05 Opening Introduction - Yigong Shi, President of CBIS

8:05 - 8:15 Welcome remarks by local host - Tsinghua University

8:15 - 9:00 Policy Keynote: Mr. Ji Zhou, Minister of Education

9:00 - 10:00 Keynote: Dr. Leroy Hood, MD, PhD

President, Institute for Systems Biology

10:00 - 10:20 Tea break

10:20 - 11:50 Mechanisms of Human Disease

Co-Chairs: Xuetao Cao and Xiao-Jiang Li

Xuetao Cao, Second Military Medical University

Dendritic cells and tumor immunology: from basic to clinics

Xiao-Jiang Li, Emory University

Polyglutamine expansion in neurodegeneration

Feng Shao, NIBS

Irreversible "dephosphorylation" of the host MAPKs by pathogenic phosphothreonine lyases

Kang Zhang, University of Utah

Molecular Genetics of Human Vision: from Monogenic Dystrophies to Complex

Trait Diseases

11:50 - 12:50 Lunch break and poster viewing

13:00 - 15:00 Parallel Sessions

Session I: Immunity and stress response

Chair: Yibin Wang, UCLA

Session II: Developmental neurobiology and neural stem cells

Chair: Wen-cheng Xiong, Medical College of Georgia

15:00 - 15:20 Tea Break

15:20 - 16:50 Regulation of Gene Expression

Co-Chairs: Yang Shi and Xiangdong Fu

Xiangdong Fu, UCSD

Genes and Genomes: An Integrated View of Gene Expression in the Context of

the Nucleus

Jian-Die Lin, University of Michigan

Control of Energy Metabolism Through PGC-1 Transcriptional Coactivators

Bing Ren, UCSD

Mapping the genome's second code - a chip-by-chip approach

Yang Shi, Harvard Medical School

Dynamic regulation of histone methylation by demethylases.

16:50 - 17:10 Snack Break

17:10 - 18:40 Frontiers in Structural Biology

Co-Chairs: Wei Yang and Zihe Rao

Hong Li, PhD, Florida State University

Structure and Function of RNA Maturation Enzymes

Hao Wu, Ph.D., Weill Medical College, Cornell University

Crystal Structure of the Oligomeric Caspase-activating PIDDosome Core

Complex

Zihe Rao, Nankai University

Structural proteomics of the SARS coronavirus: insights into the replication

machinery

Wenging Xu, University of Washington

Structural and mechanistic studies of the Wnt signaling pathway

Wei Yang, NIDDK, NIH

Snapshot and stop-action movie of DNA replication and repair

18:40-19:40 Dinner

19:40 - 20:30 Special presentation

TOPIC: Publish Your High Impact Papers - Pain of Peer Review

Dr. Vivian Siegel

(Director, Center for Science Communication, Vanderbilt University, Former Editor of *Cell*)

20:30 – 21:20 Chinese Economy and Sino-US Relationship in the 21st Century

Prof. Dai Lunzhang (著名国际经济学家)

July 23, 2007

8:20 - 8:30 Brief Remarks and introduction - Ding Xue

8:30 - 10:00 Frontiers in Neuroscience

Co-Chairs: Min Zhuo (Canada) and Yi Sun (UCLA)

Guo-li Ming, Johns Hopkins

Signaling mechanisms of nerve navigation

Guosong Liu, Tsinghua University

Synaptic organization on dendrite and its implication for learning and memory

Xu Zhang, Institute of Neurosciences

Dynamic distribution of G-protein-coupled receptors in sensory neurons

Yi Sun, UCLA

Modeling for Rett Syndrome using human ES cell-derived neurons

10:00 - 10:20 Tea break

10:20 - 12:20 Parallel Sessions

Session III: Cell cycle regulation and cancer

Chair: Yue Xiong, Univ of North Carolina - Chapel Hill

Session IV: Human diseases and therapeutics

Chair: Jia Li, National Center of Drug Screen, CAS

12:2 0 - 13:20 Lunch Break

13:30 - 15:00 Technology Development and Applications in Biology

Co-Chairs: Sunney Xie and Guo-liang Yu

Sunney Xie, Harvard University

Single Molecule Approach to Biology.

Kaiqin Lao, Applied Biosystems,

Whole miRNA/mRNA Profiling from Single Embryonic Stem Cells and Early Embryos

Jingyue Ju, Columbia University,

DNA sequencing

Xiuwen Liu, Epitomics, Inc.

Antibody and mass spectrum for biomarker discovery

Guochun Liao, Roche Pharmaceutical

Computational Genetics: Toward Understanding Our Drugs and Diseases

15:00 - 15:20 Tea Break

15:20 - 16:50 Stem Cell Biology and Regenerative Medicine

Co-Chairs: Ting Xie and Yu Zhang

Ting Xie, Stowers Institute

Intimate relationships between stem cells and the niche: lessons from Drosophila

Linheng Li, Stowers Institute

Molecularly distinguish osteoblastic and vascular niches

Hongjun Song, Johns Hopkins University

Mechanisms regulating adult mammalian neural stem cells and neurogenesis

Qi Zhou, Institute of Zoology, CAS

Customized stem cell line production by nuclear transfer

16:50-17:10 Snack Break

17:10 Presentation of CBIS Awards

18:40-19:40 Dinner

19:50-21:30 Panel Discussion

TOPICS: Creating Synergy: Win-Win for Both the Returnees and the Overseas

Moderator:

Gensheng Feng - Burham Institute

Panelists:

Yi Rao - Northwest Univ

Tian Xu - Yale Univ

Jiarui Wu - SIBS, CAS

Xiaochen Gu - PKU

Steve Yang - Pfizer

July 24, 2007

8:20 - 8:30 Brief Remarks and introduction - Weimin Zhong

8:30 - 10:00 Developmental Biology: Signaling in Plants and Animals

Co-chairs: Min Han (USA) and Jiayang Li (CHINA)

Jiayang Li, Institute of Genetics and Dev Biology, CAS Auxin polar transport regulates rice shoot gravitropism

Min Han, Univ. of Colorado/Fudan Univ

No SUN, no flowers: nuclear positioning and chromosome dynamics during animal development

Pan Duojia, Johns Hopkins University Hippo signaling in organ size control

Weihua Wu, China Agricultural University Functions of CDPKs in stomatal regulation

Anming Meng, Tsinghua University

Dual functions of Axin in dorsoventral patterning of zebrafish embryo

10:00 - 10:20 Tea break

10:20 - 12:20 Parallel Sessions

Session V: Developmental biology, chromatin structure and cancer

Chair: Zhi-chun Lai, Penn State University

Session VI: Membrane signaling network - critical roles of ion channels

Chair: Hailin Zhang, Hebei Medical University

12:2 0 - 13:20 Lunch Break

13:30 - 15:00 Novel Approaches to Cancer Biology

Co-chairs: Duanqing Pei and Xiaofan Wang

Xiao-Fan Wang, Duke University

Extracellular proteins and tumor metastasis

Tian Xu, Yale Univ./Fudan Univ.

Deciphering Genetic Basis of Tumor Growth and Progression.

Dihua Yu, MD Anderson Cancer Center

New insights on molecular basis of cancer metastasis, recurrence, and therapeutic resistance

Yibin Kang, Princeton University

Genomic Analysis of Breast Cancer Metastasis

Duanqing Pei, Guangzhou Institute of Biomedicine and Health, CAS Human Lung Cancer Stem Cells: Implication for Therapeutic Development

15:00 - 15:20 Tea Break

15:20 - 16:50 Infection and Immunity

Co-Chairs: Bing Sun and Lieping Cheng

Sun Bing, Institute Pasteur-Shanghai, CAS
A new molecule that is negative regulator on NF-kB signal pathway in DC

Hongkuei Deng, Peking University

Development of Novel Mouse Models for HIV and HCV infection

Hongbing Su, Wuhan University Molecular mechanisms of cellular antiviral response

Genhong Cheng, UCLA Innate immune gene programs against bacterial and viral infections

Lishan Sun, UNC-Chapel Hill Modeling immuno-pathogenesis and immuno-therapy of chronic human viral infections.

16:50-17:10 Snack Break

17:10-17:20 Ray Wu Award

17:20 - 18:20 Closing Lecture: Prof. Zhu Chen, Chinese Academy of Sciences

18:30 - 20:30 Banquet