Frontiers of Cell Signaling

Shanghai, China
June 21-24, 2015

Conference Program

Sunday, June 21

12:30 – 14:00 Registration

14:00 – 14:15 Abcam welcome
(Jade Zhang, General Manager, Abcam Shanghai)

14:15 – 14:30 Welcome and introductions
(Yimin Zou)

Session 1  Hippo
(session chair: Yingzi Yang)

14:30 – 15:05 Duojia Pan (Johns Hopkins Medical School, Howard Hughes Medical Institute, US)
The Hippo signaling pathway: from developmental biology to translational implications

15:05 – 15:40 Kun-Liang Guan (University of California - San Diego, US)
The Hippo-YAP pathway in cell growth control and tumorigenesis

14:40 – 16:25 Break

16:25 – 17:00 Zengqiang Yuan (Chinese Academy of Sciences, Beijing, China)
Hippo/MST1 signaling regulates neuronal cell death and microglial activation

17:00 – 17:15 Liliana Attisano (University of Toronto, Canada)
Identification of negative regulators of the Hippo pathway by multidimensional high throughput screening

17:15 – 17:30 Bin Zhao (Zhejiang University, China)
A microRNA-mediated feed forward loop of the Hippo pathway for tumorigenesis and size control

17:30 – 17:45 Fengquan Zhou (Johns Hopkins University School of Medicine, US)
Novel epigenetic mechanisms of mammalian neural regeneration

17:45 – 18:00 Mei Kong (City of Hope Cancer Center, US)
Cancer cell adaptation to glutamine deprivation

18:00 – 18:15 Discover more through RabMAb® Collaborations
(Weimin Zhu, Senior VP of Antibody Technology, Custom Antibody Services, Abcam Plc.)

Welcome dinner
(Ai Mei Restaurant, 8th Floor)
Monday, June 22

Session 2  Keynote presentations

08:00 – 09:00 Light refreshments
(Ballroom foyer)

09:00 – 09:50 Susan Taylor (UCSD, US) -
PKA: dynamic assembly of macromolecular PKA signalosomes
(introduced by Dianqing (Dan) Wu)

09:50 – 10:40 Andrew McMahon (University of South California, US)
From signals to transcriptional programs in mammalian kidney assembly
(introduced by Yingzi Yang)

10:40 – 11:25 Break

11:25 – 12:15 Marek Mlodzik (Mount Sinai School of Medicine, US)
Wnt/Frizzled Planar cell polarity (PCP) signaling and specificity between the Fz/PCP and
Fz/β-catenin pathways
(introduced by Yimin Zou)

12:15 – 14:00 Lunch
(Ai Mei Restaurant, 8th Floor)

Session 3  Wnt, Shh, BMP/TGFbeta
(session chair: Yimin Zou)

14:00 – 14:35 Xi He (Boston Children's Hospital, US)
Understanding Wnt morphogen regulation and Wnt/β-catenin signaling in developmental
and stem cell biology

14:35 – 15:10 Dianqing (Dan) Wu (Yale University, US)
PtdIns (4,5)P2 regulation–by Wnt and for Wnt

15:10 – 15:45 Jin Jiang (UT South Western Medical Center, US)
Gut feeling of BMP: an epithelial niche signal for stem cell self-renewal and regeneration

15:45 – 16:25 Break

16:25 – 17:00 Pao-Tien Chuang (University of California - San Francisco, US)
Multiple roles of Suppressor of Fused (Sufu) in mammalian Hedgehog signaling

17:00 – 17:15 Ji Jiang (University of Texas Southwestern Medical Center, US)
Epigenetic regulation of sonic hedgehog signaling during development and in
medulloblastoma

17:15 – 17:30 Jing Yang (University of Illinois, US)
Regulation of Wnt/β-catenin signaling by Fam13a, a novel human lung disease
associated gene

17:30 – 17:45 Honghua Zheng (Xiamen University, China)
TREM2 promotes microglia survival via β-catenin

17:45 – 18:00 Qiang Wu (Shanghai Jiao Tong University, China)
Inversion of CTCF binding sites by CRISPR alters genome topology and gene expression
in the brain

18:00 – 18:15 Abcam (Wendy Cheng)
(Wendy Cheng, Product Specialist, Abcam Plc.)

18:15 – 19:45 Poster session and drinks reception
Tuesday, June 23

**Session 4  Planar Cell Polarity**  
(session chair: Dianqing (Dan) Wu)

07:00 – 08:00 Light refreshments  
(Ballroom foyer)

08:00 – 08:35 David Strutt (University of Sheffield, UK)  
*Cellular mechanisms of Fat/Dachsous-mediated planar polarity: converting graded gene expression into cellular asymmetries*

08:35 – 09:10 Helen Strutt (University of Sheffield, UK)  
*Mechanisms of cell polarisation by the core planar polarity pathway*

09:10 – 09:45 Sergei Sokol (Mount Sinai School of Medicine, US)  
*Planar cell polarity signaling in vertebrate embryo development*

09:45 – 10:30 Break

10:30 – 11:05 Yingzi Yang (Harvard School of Dental Medicine, US)  
*Wnt/PCP signaling in limb development and disease*

11:05 – 11:40 Yimin Zou (University of California - San Diego, US)  
*Planar cell polarity signaling in neuronal morphogenesis*

11:40 – 12:15 Jeff Wrana (Lunenfeld-Tanenbaum Research Institute, Canada)  
*Integration of planar cell polarity signalling and ciliogenesis*

12:15 – 14:00 Lunch  
(Ai Mei Restaurant, 8th Floor)

**Session 5  Diseases**  
(session chair: Bai Lu)

14:00 – 14:35 Xiao-Fan Wang (Duke University, US)  
*miRNAs and glioma-initiating cells*

14:35 – 15:10 Xin-Hua Feng (Zhejiang University, China)  
*How cancer cells escape from TGF-ß control*

15:10 – 15:45 Valeri Vasioukhin (Fred Hutchinson Cancer Research Center, US)  
*Cell-cell adhesion in regulation of cellular signaling and tumor suppression*

15:45 – 16:30 Break

16:30 – 17:05 Zhuohua Zhang (Central South University, Changsha, China)  
*Genetic and epigenetic mechanisms in Parkinson Disease*

17:05 – 17:40 Palmer Taylor (University of California – San Diego, US)  
*Natural product templates and freeze-frame, click-chemistry for new therapeutic designs in the cholinergic nervous system*

17:40 – 17:55 Zilong Qiu (Institute of Neuroscience, CAS, China)  
*Molecular insights into autism spectrum disorders*

17:55 – 18:10 Qian Yang (Fourth Military Medical University, China)  
*Stress, Drosha, and cell death: regulation of miRNA biogenesis in neuronal stress*

18:10 – 19:30 Networking and drinks reception
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<tr>
<th>Time</th>
<th>Session</th>
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<td>08:00 – 09:00</td>
<td>Light refreshments</td>
<td>Light refreshments (Ballroom foyer)</td>
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<tr>
<td>09:00 – 09:35</td>
<td>Bai Lu</td>
<td>Fast and slow BDNF-TrkB signaling kinetics elicit differential downstream functions</td>
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<td>09:35 – 10:10</td>
<td>Anning Lin</td>
<td>IKK signaling: novel mechanism and computational modeling</td>
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<td>10:10 – 10:45</td>
<td>Sheng-Cai Lin</td>
<td>Mechanisms for sensing nutritional stresses and reprogramming of metabolic pathways</td>
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<td>10:45 – 11:15</td>
<td>Break</td>
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<td>11:15 – 11:30</td>
<td>Jiang Chang</td>
<td>Small GTPase Rnd3/RhoE regulates intracellular calcium homeostasis</td>
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<td>11:30 – 11:45</td>
<td>Jie Zhang</td>
<td>CDK5 activator protein p25 preferentially binds and activates GSK3ß</td>
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<td>11:45 – 12:00</td>
<td>Yufang Zheng</td>
<td>MeCP2 in autism - displays allele imbalance expression and affects neural stem cells differentiation by regulating Notch pathway</td>
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<td>12:00</td>
<td>Closing remarks</td>
<td>Closing remarks (Yingzi Yang and Dianqing (Dan) Wu)</td>
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