

2019 HKUST-Tsinghua University Joint Symposium on Life Science

Date: 14 January 2019 (Monday)

Venue: HKUST Jockey Club Institute for Advanced Study (IAS) Lecture Theatre
地點: 香港科技大學賽馬會高等研究院演講廳

8:45 am – 9:15 am Registration - IAS Lobby

9:15 am – 9:30 am Opening

Chair: Prof. Zhenguo Wu, HKUST

9:30 am – 10:00 am **Prof. Yeguang Chen, Tsinghua University**
“Wnt and BMP signaling coordinate to maintain Lgr5+ intestinal stem cell self-renewal and epithelium homeostasis”

10:00 am – 10:30 am **Prof. Tom Cheung, HKUST**
“Molecular regulation of stem cell quiescence and activation”

10:30 am – 10:50 am Coffee Break , IAS Lobby

10:50 am – 11:20 pm **Prof. Xiaohua Shen, Tsinghua University**
“Novel functions of lncRNA and RNA-binding protein in transcription regulation, stem cell and development”

11:20 am – 11:50 am **Prof. Zhenguo Wu, HKUST**
“Regulation of quiescence exit in adult muscle stem cells by PI3 kinase”

11:50 am – 12:20 pm **Prof. Zilong Wen, HKUST**
“A Novel Ectoderm-Derived Myeloid-Like Cell in Zebrafish Epidermis Functions as Antigen Transporters for Langerhans Cells”

12: 30 pm – 2:00 pm Lunch at UniQue (Conference Lodge)

Chair: Prof. Li Yu, Tsinghua University

- 2:00 pm – 2:30 pm **Prof. Hong Zhang, Institute of Biophysics, Chinese Academy of Sciences**
“Phase separation and transition control autophagic degradation of PGL granules”
- 2:30 pm – 3:00 pm **Prof. Mingjie Zhang, HKUST**
“Phase separation: a fundamental molecular process in cell biology”
- 3:00 pm – 3:30 pm **Prof. Li Yu, Tsinghua University**
“Migrasome formation is mediated by assembly of micron-scale tetraspanin macrodomains”
- 3:30 pm – 3:50 pm Coffee Break
- 3:50 pm – 4:20 pm **Prof. Xueliang Zhu, Shanghai Institutes for Biochemistry and Cell Biology**
“Organization of cytoskeletal networks through protein phase separation”
- 4:20 pm – 4:50 pm **Prof. Pulong Li, Tsinghua University**
“Phase transition in gene expression activation and repression”
- 4:50 pm – 5:20 pm **Prof. Wenyu Wen, Institutes of Biomedical Science, Fudan University**
“Phase transition-mediated polarity complex condensation during *Drosophila* neuroblast asymmetric division”
- 5:20 pm – 5:50 pm **Prof. Xuebiao Yao, University of Science and Technology of China**
“The microtubule plus-end tracking machinery is a selective condensate responsive for context-dependent dynamics”
- 6:30 pm – 10:00 pm Conference Dinner

Date: 15 January 2019 (Tuesday)

Venue: IAS Lecture Theatre

Chair: Prof. Kai Liu, HKUST

- 9:00 am – 9:30 am **Prof. Nancy Ip, HKUST**
“Understanding synaptic dysfunctions in Alzheimer's disease: Insights for therapeutic development”
- 9:30 am – 10:00 am **Prof. Peng Li, Tsinghua University**
“Organelle contact and lipid homeostasis”
- 10:00 am – 10:30 am **Prof. Yi Zhong, Tsinghua University**
“Molecular mechanisms underlying reversible forgetting-based dynamic memory maintenance”
- 10:30 am – 10:50 am Coffee Break
- 10:50 am – 11:20 am **Prof. Kai Liu, HKUST**
“Neuronal Intrinsic Mechanisms Regulating Axon Regeneration”
- 11:20 am – 11:50 pm **Prof. Yiguo Wang, Tsinghua University**
“Hormonal Regulation of Glucose Homeostasis”
- 11:50 am – 12:20 pm **Prof. Guangshuo Ou, Tsinghua University**
“Cooperation of Microtubule-based Motility Determines Organelle Fidelity in *C. elegans* Neurons”
- 12:30 pm – 2: 00 pm Lunch at UniQue (Conference Lodge)

Chair: Prof. Hongwei Wang, Tsinghua University

- 2:00 pm – 2:30 pm **Prof. Hongwei Wang, Tsinghua University**
“Methodology development in pushing the boundary of Cryo-EM”
- 2:30 pm – 3:00 pm **Prof. Shangyu Dang, HKUST**
“Structural insight into TRPV5 channel function and modulation”
- 3:00 pm – 3:30 pm **Prof. Bailong Xiao, Tsinghua University**
“Feeling force with the mechanosensitive Piezo channels”
- 3:30 pm – 3:50 pm Coffee Break
- 3:50 pm – 4:20 pm **Prof. Xuhui Huang, HKUST**
“From Molecular Dynamics to Genomic Biology: Constructing Kinetic Network Models to Elucidate Transcriptional Fidelity of RNA Polymerases”
- 4:20 pm – 4:50 pm **Prof. Jiguang Wang, HKUST**
“Mutational Landscape of Secondary Glioblastoma Guides MET-Targeted Trial in Brain Tumor”
- 4:50 pm – 5:20 pm **Prof. Ting Zhu, Tsinghua University**
“Building mirror-image biology systems”
- 5:20 pm – 6:10 pm **Prof. Fei Sun, HKUST**
“Unleashing Chemical Power from Protein Sequence Space for Bio Material Design”

~~ End of the Symposium ~~