SESSION LECTURE

No. 8

Cell Fate Determination

Room: 308

Co-Chairs: Jinsong Li

Josef Penninger

Day 1 October 27th (Saturday) 13:30 – 17:00		
Time	**Speaker**	**Title**
13:30-14:00	**Jinsong Li** *Institute of Biochemistry and Cell Biology, SIBS, CAS, China*	"Artificial sperm"-mediated gene editing
14:00-14:30	**Josef Penninger** *Institute of Molecular Biotechnology of the Austrian Academy of Science (IMBA), Austria*	From haploid stem cells to blood vessel engineering
14:30-15:00	**Hyunsoo Shawn Je** *Duke-NUS Medical School, Singapore*	Modeling Autism Using Human Neurons in a Dish
15:00-15:30	**Tea Break**	
15:30-16:00	**Bon-Kyoung Koo** *Institute of Molecular Biotechnology of the Austrian Academy of Science (IMBA), Austria*	Defining the identity and dynamics of adult gastric isthmus stem cells
16:00-16:30	**Guanghui Liu** *Institute of Biophysics, CAS, China*	Genetic enhancement in human stem cells by targeting FOXO3 longevity pathway
16:30-17:00	**Naihe Jing** *Institute of Biochemistry and Cell Biology, SIBS, CAS, China*	Developmental spatial transcriptome reveals lineage segregation of three germ layers in post-implantation mouse embryos

Jinsong Li

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Associate Professor, Department of Biochemistry and Molecular Biology, University of Oklahoma Health Sciences Center. The objectives of his research are to determine the molecular mechanisms by which the Bcl-2 family proteins regulate the mitochondrial outer membrane permeability and apoptotic cell death, and to develop small molecule modulators of these proteins for treating diseases associated with insufficient or excessive apoptosis.

Hyunsoo Shawn Je

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Dr. Je is currently an Associate Professor in the Neuroscience and Behavioral Disorders Programme at Duke-NUS Medical School in Singapore. He is affiliated with the Society for Neuroscience and serves as a review editor for Frontiers in Molecular Neuroscience and Experimental Neurobiology. Dr. Je studies the molecular and cellular mechanisms underlying neuropsychiatric and neurodegenerative disorders.

Guanghui Liu

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Dr. Liu is a professor at the National Laboratory of Biomacromolecules, Institute of Biophysics, Chinese Academy of Sciences. Dr. Liu's lab at CAS is now aiming to identify mechanisms underlying human stem cell aging and their implications in human agingassociated disorders.

Josef Penninger

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Josef Penninger accepted the appointment as founding director of the newly established Institute of Molecular Biotechnology (IMBA) of the Austrian Academy of Sciences in Vienna, Austria. Major achievements include pioneering insights into the molecular basis of osteoporosis and breast cancer, as well as the study of metastatic spread. His group has also developed the first haploid embryonic stem cells for functional genetics.

Bon-Kyoung Koo

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GroupLeader at Institute of Molecular Biotechnology of the Austrian Academy of Science (IMBA), Vienna, Austria.Dr Koo's team at IMBA is hoping to identify and understand the regulatory mechanisms that maintain homeostatic turnover in tissues and organs, and how they are perturbed upon injury and preneoplastic transformation. Insight into the mechanisms that regulate adult gastro-intestinal stem cells can aid in the prediction and prevention of disorders, and lead to novel therapeutic strategies to treat cancers and ulcers.

Naihe Jing

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Professor of Shanghai Institute of Biochemistry, Chinese Academy of Sciences. Dr. Jing's research interest is to understand molecular mechanisms of central nervous system development and embryonic stem cell neural differentiation. Dr. Jing is now an Associate Editor for Journal of of Molecular Cell Biology and BMC Developmental Biology, and is in the Editorial Board of Cell Research, Developmental Dynamics, Gene Expression Patterns, Mechanisms of Development.