

# Program

TIME	TOPIC	SPEAKER
08:45 - 09:15	Registration	
09:15 - 09:25	Welcome Remarks	Mr. Albert Wong
09:25 - 09:40	Opening Remarks	Prof. Pengtao Liu Prof. Gordon Dougan
<b>Session 1: Stem Cells in Human Disease and Genomic Medicine</b>		Moderator: Dr. Philip Hei Li Prof. Stephanie Kwai Yee Ma
09:40 - 10:05	Cohort-Based Gene Discovery in Primary Immune Deficiency: Can Stem Cells Help?	Prof. Ken Smith
10:05 - 10:30	The Role of Stem Cells in Immune Disorders	Prof. Chak Sing Lau
10:30 - 10:55	miRNAs and Retrotransposons, Non-coding Elements Play an Essential Role in Gene Regulation	Prof. Lin He
10:55 - 11:05	Q&A Session	
<b>Coffee Break (11:05 – 11:15)</b>		
11:15 - 11:40	Niche-Guided Stem Cell Development	Prof. Ting Xie
11:40 - 12:05	Finding and Making the Right Cells for Articular Cartilage Repair	Prof. Danny Chan
12:05 - 12:15	Generation of Articular Chondrocytes from Human Expanded Potential Stem Cells (hEPSCs)	Dr. Bo Gao
12:15 - 12:25	Stem Cell-Derived Embryo Surrogate for Studying Embryo Implantation	Dr. Cherie Yin Lau Lee
12:25 - 12:35	Engineering Immunology - From Human Embryonic Organoids to the Unexpected Role of the Immune Checkpoint	Dr. Rio Sugimura
12:35 - 12:45	Q&A Session	
<b>Networking Lunch (12:45 – 14:00)</b>		
<b>Session 2: Technologies and Models for Stem Cell Research</b>		Moderator: Prof. Pengtao Liu Dr. Bo Gao
14:00 - 14:45	Development of Stem Cell-Based miniJoint Tissue Chip to Model Aging-Associated Degenerative Joint Diseases: Re-Create, Repair, and Restore	Prof. Rocky S. Tuan
14:45 - 14:55	A Mouse Liver Tumor-Derived Organoid Platform for Understanding Driver-Dependent Liver Cancer and Response to Therapy	Prof. Stephanie Kwai Yee Ma
14:55 - 15:20	Chemical Approaches to Decode Histone Epigenetics	Prof. David Xiang Li
15:20 - 15:30	Single-Cell Data Science in Cellular Transitions and Interactions	Dr. Yuanhua Huang
15:30 - 15:55	A Single-Cell Genomics Blueprint for Regenerative Medicine	Prof. Bertie Göttgens
15:55 - 16:05	Q&A Session	
<b>Coffee Break (16:05 – 16:15)</b>		
<b>Session 3: Bioengineering in Stem Cell Research</b>		Moderator: Dr. Philip Hei Li Dr. Rio Sugimura
16:15 - 16:40	Gene-Edited Pigs for Xenotransplantation	Dr. Björn Petersen (via zoom)
16:40 - 16:50	Turning Human Blood into Neural Stem Cells without a Detour to Pluripotency	Dr. Ralf Jauch
16:50 - 17:00	Q&A Session	
<b>Session 4: Technical Workshop</b>		Moderator: Dr. Yuanhua Huang Dr. Ralf Jauch
17:00 - 17:20	BGI Health (HK) Company Limited - Spatiotemporal Omics	Dr. Miguel Esteban
17:20 - 17:50	Thermo Fisher Scientific (Hong Kong) Limited - Transition Your PSC Research to the Clinic with Confidence	Dr. Molly Xue
17:50	Closing Remarks	Prof. Gordon Dougan
18:30	Symposium Dinner by Invitation	