Symposium Programme

Day 1: Monday, 18th November 2013

07:30 to 16:15 08:30 to 08:45	Symposium Registration Welcome & Opening Address Paul ROBSON, Organizing Committee Chairman
Session 1: Plur	ripotency and Early Cell Fate Decisions - 1 Chair: Larry STANTON, GIS, Singapore
8:45 to 9:15	Dissecting the Molecular Mechanisms of Human Cellular Reprogramming Toward Pluripotency Kazutoshi TAKAHASHI, <i>Kyoto University, Japan</i> (Abstract S1)
9:15 to 9:45	A Novel Hormone for Embryonic Pluripotency Bruno REVERSADE, IMB, Singapore (Abstract S2)
9:45 to 10:15	Symmetry Breaking in Mouse Development Takahashi HIIRAGI, EMBL, Germany (Abstract S3)
10:15 to 10:30	Mapping iPSC Reprogramming by Single Cell Mass Cytometry Ernesto LUJAN, Stanford University School of Medicine (Abstract S4)
10.30 to 11.00	Morning Tea Break
Session 2: Plur	ripotency and Early Cell Fate Decisions - 2 Chair: Jonathan Yuin Han LOH, <i>IMCB, Singapore</i>
11:00 to 11:30	A Long Non-coding RNA Interacts With Sox2 to Regulate Neurogenesis Larry STANTON, GIS, Singapore (Abstract S5)
11:30 to 12:00	Directed Differentiation and Characterization of Microglial Precursors from Pluripotent Stem Cells Florent GINHOUX, SIgN, Singapore (Abstract S6)
12:00 to 12:30	Master Transcription Factors Controlling Human Pancreatic Development and Disease Ray DUNN, <i>IMB, Singapore</i> (Abstract S7)
12:30 to 12:45	Developmental Signaling Logic Animating Lineage Bifurcations During Endoderm Development and Patterning from Human Pluripotent Stem Cells Kyle M. LOH, Stanford University School of Medicine, USA (Abstract S8)
12:45 to 13:00	Improved Method of Differentiation of Human Stem Cells Produces Better Functional Effects in a Primate Model D. Eugene REDMOND, Yale University School of Medicine, USA (Abstract S9)
13:00 to 13:30	Lunch Time Talk: Enabling and Expanding Stem Cell Research Christopher NOVAK, Beckman Coulter (Abstract L1)
13:00 to 14:30	Lunch Break and Poster session
Session 3: Ster	m Cells of the Placenta and Germ Cells: Chair: Colin STEWART, IMB, Singapore
14:30 to 15:00	Connecting Placental Stem/progenitor Cell Biology and Fetal Hematopoiesis Hanna MIKKOLA, UCLA, USA (Abstract S10)

15:00 to 15:30	In-vivo Epigenomic Profiling of Germ Cells Reveals Germ Cell Molecular Signatures NG Jia Hui, <i>GIS, Singapore</i> (Abstract S11)
15:30 to 16:00	Mechanism and Reconstitution In-vitro of Germ Cell Development in Mice Mitinori SAITOU, Kyoto University, Japan (Abstract S12)
16:00 to 16:15	Characterising the Trophoblast Progenitors within Early Human Placentas Cheryl LEE, Cambridge University, UK (Abstract S13)
16:15 to 16:45	Afternoon Tea Break
Session 4: KEYNOTE LECTURE Chair: NG Huck Hui, GIS Singapore	
16:45 to 17:45	iPS Cell Technology and Disease Research: Issues to be Resolved Rudolf JAENISCH, Whitehead Institute/ MIT, USA (Abstract S14)
18:00 - 21:00	Symposium Networking event at Long Black Café, Epicentre, Biopolis.

DAY 2: Tuesday 19th November 2013

07:30 to 12:00 Symposium Registration

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Session 5: Single Cell Technologies Chair: William BURKHOLDER, IMCB, Singapore		
8:30 to 9:00	Modelling Early Development with Human Embryonic Stem Cells Paul ROBSON, GIS, Singapore (Abstract S15)	
9:00 to 9:30	Preimplantation Genetic Diagnosis by Single Cell Genome Sequencing Fuchou TANG, <i>Peking University, China</i> (Abstract S16)	
9:30 to 10:00	Using Microfluidics Technology to Perform Single-cell DNA Methylation Analysis and Multiplexed Protein-protein Binding Assays Lih Feng CHEOW, IMCB, Singapore (Abstract S17)	
10.00 to 10.30	Morning Tea Break	
Session 6: Endometrium & Maternal Interactions Chair: Karl TRYGVASSON, Duke-NUS, Singapore		
10:30 to 11:00	Endometrial Stem Cells and Their Application to Women's Health Caroline GARGETT, Monash University, Australia (Abstract S18)	
11:00 to 11:30	The Role of Endometrial Progenitor Cells in Reproductive Failure Jan BROSENS, Warwick University, UK (Abstract S19)	
11:30 to 12:00	Maternal NK Cell KIR Recognition of Trophoblast HLA-C Regulates Placentation Ashley MOFFET, Cambridge University, UK (Abstract S20)	
12:00 to 12:15	Dynamic Regulation of Canonical Wnt/b catenin Signaling by LIF in Preparation for Embryo Attachment Gracy Xavier ROSARIO. <i>IMB, Singapore</i> (Abstract S21)	
12:15 to 13.45	Lunch Break and Poster session	
Session 7: Clini	ical Applications Chair: Susan LIM, Stem Cell Technologies i	
13:45 to 14:15	Fetal Programming of Human Health and Disease Risk: Role of Prenatal Stress and Stress Biology Pathik WADHWA, <i>UCI</i> , <i>USA</i> (Abstract S22)	
14:15 to 14:45	Use of Gestational Tissue Derived Cells for Lung and Brain Repair in Neonates Graham JENKIN, Monash Institute of Medical Research, Australia (Abstract S23)	
14:45to 15:15	Recurrent Miscarriages: Maternofetal Interface, Microvesicles and More Sheila VASOO, National University Hospital, Singapore (Abstract S24)	
15:15 to 15:45	Afternoon Tea Break	
Session 8: Imprinting/Epigenetics Chair: Shigeki SUGII, SBIC, Singapore		
15:45 to 15:50	Poster Prize Presentation	
15:50 to 16:20	STAT3 Regulates a Novel Epigenetic Pathway for ESC Pluripotency and Early Embryogenesis Xin-Yuan FU, NUS, Singapore (Abstract S25)	

16:20 to 16:50	Maintaining Genomic Imprinting During Early Development Daniel MESSERSCHMIDT, IMCB, Singapore (Abstract S26)
16:50 to 17:35	The Epigenetic Stability of Pluripotent and Somatic Cell States Jacob HANNA, Weizmann Institute, Israel (Abstract S27)
17:35 to 17:45	Close of symposium Paul ROBSON, Organizing Committee Chairman