

Singapore-Germany Stem Cell Symposium

Basic Research & Translational Aspects of Stem Cells

Date : 6 - 7 Apr 2009

Venue : Breakthrough Theatre
Matrix Building



Image courtesy of Ray Dunn (IMB)

Programme

Day 1: Monday, 6 April 2009

Time	Sessions
9.00 – 9.15	<p>Welcome Address by Alan Colman, ED, Singapore Stem Cell Consortium Dr. Leisch, DFG Representative Mr. Herzog, Counsellor Science and Technology, German Embassy Prof. Jürgen Hescheler, Dr. Gerald Udolph</p>
<p>Session 1: iPS, Control of Self renewal, Spying on Stem Cells (Chair : Lim Sai Kiang, Institute of Medical Biology)</p>	
9:15 – 10:45	<p>Disease-specific induced pluripotent stem cells and their uses Alan COLMAN, Institute of Medical Biology</p> <p>Tracking stem cell behavior at the single cell level: New tools for old questions Timm SCHROEDER, Helmholtz Zentrum München</p> <p>Unique actions of REST in embryonic and neural stem cells Larry STANTON, Genome Institute of Singapore</p>
<p><i>10 :45 to 11.15 Morning Tea Break</i></p>	
<p>Session 2:: New Kids on The Block (Chair : Jürgen Hescheler, University of Cologne)</p>	
11:15 to 12:45	<p>Generation of pluripotent stem cells from adult human testis Thomas SKUTELLA, University of Tübingen</p> <p>Fetomaternal microchimerism in a murine animal model: stem cell transplantation naturally? Gerald UDOLPH, Institute of Medical Biology</p> <p>Tumour initiating cells in neuroectodermal tumors: at the interface between stem cell and tumor cell biology Christian BELTINGER, University Children's Hospital</p>
<p><i>12:45 – 13:30 Lunch</i></p>	

**Session 3: Niches, ECM, and Stem Cell Connections
(Chair : Larry Stanton, Genome Institute of Singapore))**

13:30 to 15:00

The Creation of Artificial Stem Cell Niches
Victor NURCOMBE, Institute of Medical Biology

Role of the extracellular matrix and matrix-metalloproteinases in the human hematopoietic stem cell niche

Gerd KLEIN, University of Tübingen

The importance of being connected: junctional complexes between human HSCs, leukemic cells and mesenchymal stromal cells

Patrick WUCHTER, University Heidelberg

15:00 to 15:30 Afternoon Tea Break

**Session 4: Neural Differentiation of Stem Cells
(Chair : Gerald Udolph, Institute of Medical Biology)**

15:30 to 17:00

Genes and activity in the regulation of neural precursors cells in the adult brain
Gerd KEMPERMANN, CRTD – Center for Regenerative Therapies Dresden

Survival and Proliferation Factors for Neural Stem Cells

Sohail AHMED, Institute of Medical Biology

In vitro assay for neural stem cell asymmetric division

Xiaohang YANG, Institute of Molecular and Cell Biology

*18:30 Conference Reception, German Ambassador's Residence
(For Speakers and Invited Guests only)*

Day2 : Tuesday, 7 April 2009

Time	Topic
<p style="text-align: center;">Session 5: Stem Cell Markers and Directed Differentiation (Chair : Peter Droege, Nanyang Technological University)</p>	
09:00 – 10:30	<p>Time-resolved analysis of Oct4/Pou5fl – dependent state changes in the transcriptomes of zebrafish early embryos Wolfgang DRIEVER, University Freiburg</p> <p>Differentiation of serotonergic neurons from embryonic stem cells Michael BADER, Max Delbrück Center for Molecular Medicine</p> <p>Steering embryonic stem cell fate: insights into regulatory decisions based on basic cellular metabolism and the Wnt signaling pathway Nicole zur NIEDEN, Fraunhofer Institute</p>
<p style="text-align: center;"><i>10:30 to 11:00 Morning Tea Break</i></p>	
<p style="text-align: center;">Session 6: Moving towards applications (Chair : Thomas Skutella, University of Tübingen)</p>	
11:00 – 12:30	<p>Deciphering the surface molecules on human embryonic stem cells Andre CHOO, Bioprocessing Technological Institute</p> <p>Embryonic and induced pluripotent Stem Cells for Basic research and Regenerative Medicine Jürgen HESCHELER, University Cologne</p> <p>Deriving clinical applications from embryonic stem cells through lineage-restricted progenitor cell lines Sai Kiang LIM, Institute of Medical Biology</p>
<p style="text-align: center;"><i>12 :30 – 14:00 Lunch</i></p>	

Session 7: Stem Cells in Drug Discovery and Disease
(Chair : Andre Choo, Bioprocessing Technological Institute)

14:00 to 15:30

TAG1-APP signalling in neural stem cells
Gavin S. DAWE, National University of Singapore, Singapore

Stem Cell Bioprocessing : Going 3G via 3D
Steve OH, Bioprocessing Technological Institute

Characterization of ESC-derived in vitro systems to assay neurotoxicity and developmental neurotoxicity
Suzanne KADEREIT, University Konstanz

15:30 to 16:00 Afternoon tea break

Session 8: Reprogramming and iPS
(Chair : Alan Colman, Institute of Medical Biology)

16:00 to 17:30

Approaching natural reprogramming
Barbara KNOWLES, Institute of Medical Biology

Single cell expression analysis from zygote to blastocyst
Paul ROBSON, Genome Institute of Singapore

Induction of pluripotency in somatic and germline cells
Hans SCHOELER, Max Planck Institute for Molecular Biomedicine

Closing and End Of Symposium

18:30 Conference Dinner (Hosted by SSCC, for Speakers and Invited Guests only)