



Stem Cell Society Singapore Symposium

2 – 3 November 2009

Auditorium, Matrix Building
Biopolis, Singapore



<http://www.stemcell.org.sg>



Detailed Schedule at a Glance

Day 1: Monday, 2nd November

8:00 to 9:00 **Conference Registration**
 9:00 to 9:30 **Welcome & Opening Address**
Saikiang LIM, SCSS President
Lawrence STANTON, Symposium Chairman

Session 1: Stem Cells and Early Mammalian Development (Chair: Colin STEWART, Institute of Medical Biology)

9:30 to 10:30 MAKING STEM CELLS AND ESTABLISHING CELL FATE IN THE BLASTOCYST
Janet ROSSANT, Hospital for Sick Children and University of Toronto, Toronto, Canada (Abstract S1)

MOUSE EPIBLAST: CELL FATES AND LINEAGE POTENCY
Patrick TAM, Children's Medical Research Institute, Sydney, Australia (Abstract S2)

10:30 to 11:00 Morning Tea Break

Session 2: Transcriptional & Epigenetic Control of Stem Cells (Chair: Paul ROBSON, Genome Institute of Singapore)

11:00 to 12:30 A TIMING MECHANISM FOR STEM CELL MAINTENANCE AND DIFFERENTIATION IN PLANTS
Toshiro ITO, Temasek Life Sciences Laboratory, National University of Singapore, & PRESTO, Japan Science and Technology (Abstract S3)

GENETIC AND EPIGENETIC REGULATION OF THE IDENTITY OF EMBRYONIC STEM CELLS
Huck Hui NG, Genome Institute of Singapore (Abstract S4)

A RONIN-CONTROLLED GENETIC PROGRAM THAT FACILITATES THE RAPID GROWTH OF EMBRYONIC STEM CELLS
Thomas ZWAKA, Baylor College of Medicine, Houston, Texas, USA (Abstract S5)

12:30 to 14:00 Lunch & Poster Viewing

Session 3: Hematopoietic Stem Cells (Chair: Tara HUBER, Genome Institute of Singapore)

14:00 to 15:30 STEM CELL METABOLISM AND CELL FATE DECISION
Toshio SUDA, Keio University, Tokyo, Japan (Abstract S6)

NONMALIGNANT MOUSE LEUKEMIA STEM CELLS
Klaus KARJALAINEN, School of Biological Sciences, Nanyang Technological University, Singapore (Abstract S7)

TRACKING STEM CELL BEHAVIOR AT THE SINGLE CELL LEVEL: NEW TOOL FOR OLD QUESTIONS
Timm SCHROEDER, Institute of Stem Cell Research of the Helmholtz Center Muenchen, Germany (Abstract S8)

15:30 to 16:00 Afternoon Tea Break

Session 4: Stem Cell Technologies (Chair: Andre CHOO, Bioprocessing Technology Institute, Singapore)

16:00 to 17:00 COLORFUL CHEMICAL BIOLOGY
Young-Tae CHANG, Department of Chemistry, National University of Singapore (Abstract S9)

MEDAKA STEM CELLS AND STEM CELL TECHNOLOGIES
Yunhan HONG, Department of Biological Sciences, National University of Singapore (Abstract S10)

17:00 to 19:30 Poster Session & Social Mixer

KEYNOTE LECTURE (Introduction: Lawrence STANTON, Genome Institute of Singapore)

19:30 to 21:00 PATIENT-SPECIFIC PLURIPOTENT STEM CELLS
George DALEY, Children's Hospital Boston, Department of Biological Chemistry, Harvard Medical School, Harvard Stem Cell Institute, Howard Hughes Medical Institute, Boston, USA (Abstract S11)



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Day 2: Tuesday, 3rd November

Session 5: Neural Stem/Progenitor Cells (Chair: Gerald UDOLPH, Institute of Medical Biology)

- 9:00 to 10:30 TRANSCRIPTIONAL CONTROL OF PROLIFERATION AND DIFFERENTIATION OF NEURAL PROGENITORS
François GUILLEMOT, National Institute for Medical Research, Mill Hill, London, UK (Abstract S12)
- BRAIN TUMOR SUPPRESSORS AND NEURAL STEM CELL SELF-RENEWAL IN DROSOPHILA
Hongyan WANG, Duke-NUS Graduate Medical School, Singapore (Abstract S13)
- PLURIPOTENT STEM CELLS TO EXPLORE MECHANISMS AND TREATMENTS OF MONOGENIC DISEASES
Cécile MARTINAT, Institute for Stem Cell Therapy and Exploration of Monogenic Diseases (I-Stem), Evry, France (Abstract S14)

10:30 to 11:00 Morning Tea Break

Session 6: Adult Stem Cells (Chair: Alan Colman, Institute of Medical Biology, Singapore)

- 11:00 to 12:30 SCALE-UP OF HUMAN MESENCHYMAL STEM CELLS FOR REGENERATIVE MEDICINE USING CARBOHYDRATES
Simon COOL, Institute of Medical Biology, Singapore (Abstract S15)
- THE MYSTERY OF ENGRAFTMENT
Yann BARRANDON, Ecole Polytechnique Fédérale Lausanne (EPFL) and Lausanne University Medical School, Lausanne, Switzerland (Abstract S16)
- RECONSTRUCTING THE MESENCHYMAL STEM CELL (MSC) MICROENVIRONMENT BY DELEGATION - THE LIQUID AND THE SOLID WAY
Michael RAGHUNATH, Division of Bioengineering, National University of Singapore (Abstract S17)

12:30 to 14:00 Lunch

Session 7: Stem Cell Therapy (Chair: Susan LIM, Susan Lim Surgery, Singapore)

- 14:00 to 15:30 LIVER CELL THERAPY
Markus GROMPE, Oregon Health Science University, Portland, OR, USA (Abstract S18)
- STEMMING VISION LOSS USING STEM CELLS – SEEING IS BELIEVING
Peter COFFEY, University College London, UK (Abstract S19)
- MOTOR NEURON PROGENITORS DERIVED FROM HUMAN EMBRYONIC STEM CELLS FOR CLINICAL APPLICATION
Hans KEIRSTEAD, University of California Irvine, CA, USA (Abstract S20)

15:30 to 16:00 Afternoon Tea Break

Session 8: Cancer Stem Cells (Chair: Hannes HENTZE, Translational Medicine Research Centre Singapore, Schering-Plough)

- 16:00 to 17:00 EXPLORING CHEMORESISTANCE IN BRAIN TUMOR-INITIATING CELLS
Carol TANG, National Neuroscience Institute, Singapore (Abstract S21)
- WIP1 PHOSPHATASE AT THE CROSSROADS OF CANCER AND AGING
Dmitry BULAVIN, Institute of Molecular & Cellular Biology, Singapore (Abstract S22)
- WNT, LGR5 STEM CELLS AND CANCER
Hans CLEVERS, Hubrecht Institute, Utrecht, the Netherlands (Abstract S23)

17:00 to 17:30 Closing and End of Symposium

