

**Program 4th International Symposium –
Stem Cells, Development and Regulation
October 12-14, 2010. Hotel Krasnapolsky, Amsterdam**

Day 1 – October 12

9.00 – 9.30	Registration
9.30 – 10.00	Elaine Dzierzak, Scientific Co-Director NIRM <i>Opening</i> Chair: Maarten van Lohuizen, Netherlands Cancer Institute
10.00 – 10.35	Azim Surani, Wellcome Trust /Cancer Research UK Gurdon Institute, Cambridge, United Kingdom <i>Resetting the mouse epigenome in germ cells for totipotency</i>
10.35 – 11.10	Mandy Fisher, MRC Clinical Sciences Centre, Imperial College London, United Kingdom <i>Resetting the lineage clock – how does reprogramming work?</i>
11.10 – 11.40	Break
11.40 – 12.15	Stuart Orkin, Howard Hughes Medical Institute, Chevy Chase, USA <i>Embryonic stem cell like gene signatures and cancer</i>
12.15 – 12.50	Richard Young, Whitehead Institute for Biomedical Research, Cambridge, USA <i>Transcriptional control of embryonic cell state</i>
12.50 – 14.15	Lunch Chair: Joost Gribnau, Erasmus MC
14.15 – 14.50	Philip Avner, Institut Pasteur, Paris, France <i>X-inactivation regulation and pluripotency</i>
14.50 – 15.25	Robert Blelloch, University of California, San Francisco, USA <i>MicroRNA regulation of embryonic and induced pluripotent stem cells</i>
15.25 – 15.35	Olle Lindvall, Lund University Hospital, Lund, Sweden <i>ISSCR guidelines</i>
15.35 – 16.05	Break
16.05 – 16.40	Olle Lindvall, Lund University Hospital, Lund, Sweden <i>Moving stem cells to the clinic in Parkinson's disease</i>
16.40 – 17.15	Ben Scheres, Utrecht University, Utrecht, The Netherlands <i>Gene networks for plant stem cell specification</i>
17.15 – 19.00	Posters and drinks

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Day 2 – October 13

Chair: Dies Meijer, Erasmus MC

09.15 – 09.50 Patrik Ernfors, Karolinska Institutet, Stockholm, Sweden
Cell cycle restriction by histone H2AX limits self-renewal of adult neural stem cells

09.50 – 10:25 Derek van der Kooy, University of Toronto - Terrence Donnelly CCBR, Toronto, Canada
A novel neural stem cell at the top of the neural stem cell hierarchy

10.25 – 11.00 Sally Temple, New York Neural Stem Cell Institute, Rensselaer, USA
Neural stem cell movements in the vascular niche

11.00 – 11.30 Break

11.30 – 12.05 Amy Wagers, Joslin Diabetes Center - Harvard Medical School, Boston, USA
Skeletal muscle stem cells and the regulation of tissue repair and tumorigenesis

12.05 – 13.30 Lunch

Chair: Niels Geijsen, Hubrecht Institute

13.30 – 13.50 Eric Deneault, Molecular Genetics of Stem Cells Laboratory, IRIC, University of Montreal, Montreal, Canada
Identification of Secreted Factors Inducing Hematopoietic Stem Cell Self-Renewal

13.50 – 14.10 Catherine Porcher, MRC Molecular Haematology Unit, Weatherall Institute of Molecular Medicine, John Radcliffe Hospital, University of Oxford, UK
VEGFA Controls Haematopoietic Stem Cell Specification in a Dose-Dependent, Isoform-Specific Manner

14.10 – 14.30 Derk ten Berge, Erasmus Stem Cell Institute, Department of Cell Biology, Erasmus Medical Center, Rotterdam, the Netherlands
Wnt proteins are essential for self renewal of embryonic stem cells by preventing differentiation to epiblast stem cells

14.30 – 15.00 Break

15.00 – 15.20 Marjolein Wildwater, Developmental Biology, Utrecht University, Utrecht, The Netherlands
Wnt signaling and cell shape redundantly control the cell division axis in C. elegans epithelial stem cells

15.20 – 15.40 Mehdi Pirouz, Max Planck Institute for biophysical Chemistry, Research Group Developmental Biology, Göttingen, Germany
Mad212 Is Essential for Embryonic Development of Primordial Germ Cells

15.40 – 16.00 Hugo Snippert, Hubrecht Institute, KNAW and University Medical Center Utrecht, The Netherlands
Intestinal Crypt Homeostasis results from Neutral Competition between Symmetrically Dividing Lgr5 Stem Cells

16.00 – 18:00 Posters and Drinks

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Day 3 – October 14

Chair: Riccardo Fodde, Erasmus MC

- 09.15 – 09.50 Roel Nusse, Howard Hughes Medical Institute, Stanford, USA
Wnt signaling during stem cell self-renewal and tissue repair
- 09.50 – 10.25 Hans Snoeck, Mount Sinai School of Medicine, New York, USA
- 10.25 – 10.40 Nancy Witty, ISSCR Executive Director
International Society for Stem Cell Research (ISSCR)
- 10.40 – 11.10 Break
- 11.10 – 11.45 Paul Coffey, University Medical Center Utrecht, The Netherlands
FOXO-mediated regulation of stem cell homeostasis through coordinated control of metabolism and autophagy
- 11.45 – 12.20 Elaine Dzierzak, Erasmus University Medical Center Rotterdam, The Netherlands
Where do blood cells come from?
- 12.20 – 14.00 Lunch
- Chair: Paul Coffey, University Medical Center Utrecht**
- 14.00 – 14.35 Keith Humphries, British Columbia Cancer Agency, Vancouver, Canada
Leukemic stem cells: uncovering the "dark side" of stem cell function
- 14.35 – 15.10 Gerald de Haan, Groningen University Medical Center, The Netherlands
A microRNA cluster that modulates hematopoietic stem cell pool size
- 15.10 – 15.45 Tariq Enver, MRC Weatherall Institute of Molecular Medicine, University of Oxford, United Kingdom
The stem and progenitor cell biology of childhood leukaemia
- 15.45 – 16.00 Closure