

MMRI Stem Cell Symposium 2010

 **epigenetics, transcriptomics and nanobiotechnology of stem cells**

Date: May 20th-21st 2010

Venue: University of Queensland Centre for Clinical Research, Royal Brisbane Hospital Campus, Herston, Brisbane, Queensland, Australia

Thursday May 20th 2010

4pm – 6pm. Opening Plenary Talk – Professor Don Metcalf, Walter and Eliza Hall Institute, Melbourne

“Haematopoietic stem cells – Puzzles and lessons”

6pm – 8pm. Welcome Reception at UQCCR

Sponsored by Miltenyi Biotec

Friday May 21st

8am – 10.20am. Nanotechnology and Stem Cells*. Organiser: Professor Matt Trau, Australian Institute of Bioengineering and Nanotechnology, University of Queensland

10.20am – 11am. Morning tea break – sponsored by Miltenyi Biotec

11am – 13.20pm. Transcriptomics of stem cells*. Organiser: Dr Christine Wells, Eskitis Institute for Cell and Molecular Therapies, National

Centre for Adult Stem Cell Research, Griffith University

13.20pm – 14.30pm. Lunch and Poster Session (lunch sponsored by Miltenyi Biotec)

14.30pm – 16.50pm. Epigenetics of stem cells*. Organiser: Professor John Mattick, Institute for Molecular Bioscience, University of Queensland.

Afternoon tea will be available during this session – sponsored by Miltenyi Biotec

*Note: each of these three modules will start with a “101” basic information session, followed by scientific talks, followed by a vigorous interactive audience participation session

8am – 17.00pm. The Scientific Exhibits will be open throughout the meeting

17.00pm. Close of meeting

Questions for Nanotechnology Audience Participation Session

- 1) What nanotechnology application would you kill for in the area of stem cell research?
- 2) What information about your stem cell research would you kill for using nanotechnology?
- 3) How do you image molecular pathways inside the stem cell using nanotechnology?
- 4) How do you investigate Intracellular signalling in stem cells using nanotechnology?
- 5) How do you image membrane processes in stem cells?
- 6) How can you manipulate stem cells using nanotechnology?

Questions for Transcriptomics Audience Participation Session

- 1) What makes a global expression analysis useful?
- 2) How do I value add to my profiling experiments?

Questions for Epigenetics Audience Participation Session

- 1) Are epigenetic marks stochastic within a cell population or highly specific for individual cell states?
- 2) What controls the locus- and site-specificity of epigenetic marks?
- 3) How do environmental factors alter epigenetic memory?
- 4) To what extent can epigenetic memory be meiotically inherited?
- 5) How do epigenetic marks overlap between pluripotent cells and cancer cells?

Registration FREE. Registration and poster abstract details online via the MMRI website:
www.mmri.mater.org.au

All food and beverages complimentary

Local Organising Committee:
Kerry Atkinson (MMRI), Nick Fisk (UQCCR), Ernst Wolvetang (AIBN), Paul Verma (Monash University), Falak Helwani (MMRI), Michael Ting (UQCCR), Tom Chung and Dmitry Ovchinnikov (AIBN), Huseyin Sumer (Monash University)

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