

Conference Program

Wednesday February 11

07:30 - 09:00	Breakfast in Brunch Restaurant
	Session: Regulation of the stem cell state I Chair: Neil Clarke
09:00 - 09:30	Huck Hui NgPage 12 Deciphering and reconstruction of embryonic stem cell transcriptional regulatory network
09:30 - 10:00	Kristian HelinPage 13 Histone methylation at the center of cellular differentiation and disease
10:00 - 10:30	Marc MeneghiniPage 14 Jumonji-family histone demethylases control developmental timing during yeast sporulation
10:30 - 10:40	Abcam
	Morning Coffee
11:00 - 11:30	Anne-Ferguson SmithPage 15 Genomic imprinting: a model for dissecting the epigenetic control of gene activity and repression
11:30 - 12:00	En LiPage 16 Abstract unavailable
12:00 - 12:30	Jie DengPage 17 Single-molecule analysis of DNA methylation in induced pluripotent stem cells
	Lunch & Posters
13.30 - 14.00	Buses depart for Biopolis

Session: Regulation of the stem cell state II

Chair: Larry Stanton

14:30 - 15:00 Eran MeshorerPage 18
Chromatin state and function in pluripotent embryonic stem cells

15:00 - 15:30 Peter Rugg-GunnPage 19
Bivalent histone domains are present in pluripotent cells of the early mouse embryo *in vivo* but not in all blastocyst-derived stem cell lines *in vitro*

15:30 - 16:00 Sheng DingPage 20
A chemical approach to pluripotency and reprogramming

Afternoon Tea

16:30 - 17:00 Maarten van LohuizenPage 21
Polycomb repressors controlling stem cell fate: implications for cancer and development

17:00 - 17:30 Azim SuraniPage 22
Noisy stem cells: dynamic equilibrium and heterogeneity in pluripotent stem cells

Introduction to Genome Institute Singapore

Drinks and Tours of Biopolis Institutes

Dinner

Transfers back to Pan Pacific

Thursday February 12

07:00 - 08:30 Breakfast in Brunch restaurant

Session: Regulation of lineage specification I

Chair: Noel Buckley

08:30 - 09:05	Johan EricsonPage 23 Programming of ES cell differentiation by intrinsic transcriptional determinants
09:05 - 09:40	Noel BuckleyPage 24 Abstract unavailable
09:40 - 10:15	Zhi-Cheng XiaoPage 25 Abstract unavailable
10:15 - 10:40	Rory JohnsonPage 26 Adaptation of a stem cell regulatory programme through development and evolution
	Morning Coffee
11:10 - 11:45	Shinichi NishikawaPage 27 A new model of differentiation of hematopoietic stem cells
11:45 - 12:20	Paul GaduePage 28 Regulation of endoderm and mesoderm specification during embryonic Stem Cell differentiation
12:20 - 12:45	Zhenzhi ChngPage 29 Function of SIP1 in neuroectoderm differentiation of human embryonic stem cells
	Lunch & Posters
	Session: Regulation of lineage specification II Chair: <i>Shinichi Nishikawa</i>
14:00 - 14:35	Christine MummeryPage 30 Human embryonic stem cell cardiomyocytes in cardiac repair and drug discovery
14:35 - 15:10	Zheng YangPage 31 Directed and controlled chondrogenic differentiation of human mesenchymal stem cells for efficient cartilage repair

15:10 - 15:35 Tim ThomasPage 32
The role of the transcriptional co-activators Moz and Qkf in stem cells

Afternoon Tea

16:05 - 16:40 Anthony WhettonPage 33
Proteomic analysis of the embryonic stem cell nucleus: post-translational regulation in development

16:40 - 17:05 David SchruppPage 34
Cigarette smoke activates Wnt signaling in lung cancer cells via polycomb-mediated repression of Dickkopf-1

17:05 - 17:30 C O'NeillPage 35
The regulation of pluripotency in embryos by TRP53 and the consequences for generation of ESC lines

17:30 - 19:00 Poster session

Friday February 13

07:00 - 08:30 Breakfast in Brunch restaurant

Session: Pluripotency regulation

Chair: Huck Hui Ng

08:30 - 09:05 Ian ChambersPage 36
Transcription factor control of ES cell self-renewal

09:05 - 09:40 Larry StantonPage 37
Zic3 is a regulator of pluripotency and lineage specification in embryonic stem cells.

09:40 - 10:05 Roberto MantovaniPage 38
NF-Y controls transcription of stem cells transcriptional regulators

10:05 - 10:30 Ping YuanPage 39
Regulation of ES cell identity by a histone H3K9 methylase

Morning Coffee

Session: Induced pluripotency

Chair: Konrad Hochedlinger

11:00 - 11:35 Konrad HochedlingerPage 40
Abstract unavailable

11:35 - 12:00 Lei XiaoPage 41
Generation of induced pluripotent stem cell lines from rat adult cells

Lunch & Posters

Session : Therapeutic potential of Stem Cells

Chair: Konrad Hochedlinger

13:30 - 14:05 Joseph GoldPage 42
Human embryonic Stem Cell-derived cardiomyocytes: progress towards cellular therapy for heart disease

14.04 - 14.49 William StanfordPage 43
Identification of a Putative Tumor Suppressor via Transcriptional Network Analysis in Embryonic and Hematopoietic Stem Cells

14:40 - 15:15 Andy McMahonPage 44
From precursor to product: assembly and repair of the mammalian kidney

Closing remarks

End of Conference