

ISD-BSDB Programme 2014

Sunday 2 November, 2014	
12.00 – 15.00 13:00 – 19.30	ISD Board Meeting – The Discovery Suite Registration Opens – Bridge Suite
15.30 – 19:30	Presidential Symposium: Reprogramming the Genome in Development and Disease Discussion Leaders: Marianne Bronner and Chris Wylie
15.30 – 15.45	Welcome Remarks
15.45 – 16.45	Brachet Memorial Lecture S01 John Gurdon - Jean Brachet en route to nuclear reprogramming
16.45 – 17.15	Tea/Coffee Break
17:15 – 18.00	S02 Fiona Watt - Intercellular communication between epidermis and dermis maintains skin homeostasis
18.00 – 18.45	S03 David Kingsley - Fishing for the secrets of vertebrate evolution
18.45 – 19.30	S04 Liz Robertson - Making a commitment; regulation of cell fate choice in the early mouse embryo
19:30 – 20.30	Opening Welcome Reception – The Gallery

Monday 3 November, 2014	
08.00	Registration opens - Bridge Suite
Session 1:	EMT in development and cancer - Discussion Leader: Kathy Cheah Tower Suite
09.00 – 09.30	S05 Angela Nieto Toledano - Epithelial plasticity in development and disease
09.30 – 10.00	S06 Tatjana Sauka-Spengler - Pioneering the chromatin for neural crest specification
10.00 – 10.30	S07 Paul Kulesa - Neural Crest Invaders: News from the Front
10.30 – 11.00	Refreshment Break and Exhibition Viewing – Bridge Suite
11.00 – 11.30	S08 Margaret Frame - Targeting and imaging cancer phenotypes: Focal Adhesion Kinase as a critical regulator of tumor cells and the host immune response
11.30 – 12.00	S09 Yoshiko Takahashi - Inter-epithelial signaling protects tissues from EMT
12.00 – 12.15	O1 Marcos Simoes-Costa – Wnt effector Axud1 cooperates with neural plate border genes to drive neural crest specification
12.15 – 12.30	O2 Jeremy Green – Suprabasal cell intercalation drives epithelial invagination of ectodermal organs
12.30 – 13.30	Lunch and Exhibition Viewing – Bridge Suite
13.30 – 14.30	Poster Viewing – Bridge Suite
Session 2:	Oscillations and Signaling - Discussion leader: Alfonso Martinez Arias
14.30 – 15.00	S10 Alexander Aulehla - Self-organization of genetic oscillators during mesoderm development
15.00 – 15.30	S11 Angela Stathopoulos - Coordinate Migration of Mesoderm Cells in the Drosophila Embryo
15.30 – 16.00	S12 Ryoichiro Kageyama - Dynamic control of bHLH factors in multipotency and fate choice of neural stem cells
16.00 – 16.15	O3 Kim Dale – Stabilising NICD in the PSM slows the pace of the segmentation clock
16.15 – 16.45	Refreshment break and Exhibition Viewing – Bridge Suite
16.45 – 17.15	S13 Hiroki R. Ueda - Towards Organisms-level Systems Biology
17.15 – 17.45	S14 Caroline Hill - Spatial and temporal regulation of TGF- β superfamily signalling
17.45 – 18.00	O4 Philip Ingham – In vivo analysis of GRK2 in vertebrate Hedgehog signalling
18.00 – 18.15	O5 Martin Carkett – How limb cells establish and interpret a graded response to the Sonic Hedgehog morphogen

Tuesday 4 November, 2014	
08.00	Registration opens – Bridge Suite
Session 3:	Regeneration – Discussion leader: Isabel Farinas
09.00 – 09.30	S15 Alejandro Sanchez Alvarado - The planarian protonephridia reveals the existence of a common ancestor to the vertebrate and invertebrate excretory systems
09.30 – 10.00	S16 Ken Poss - Insights on tissue regeneration from Zebrafish
10.00 – 10.15	O6 Fiona Wardle – Global identification of Smad2 and Eomesodermin targets in zebrafish
10.15 – 10.30	O7 Simon Hughes – Tissue homeostasis of muscle stem cells regulates muscle fibre number
10.30 – 11.00	Refreshment break and Exhibition Viewing – Bridge Suite
11.00 – 11.15	O8 Meritxell Huch - Lgr5 liver stem cells and Hepatic organoids
11.15 – 11.45	S17 Elly Tanaka - Testing Gene Function during Regeneration
11.45 – 12.15	S18 Paul Martin - Inflammation and its parallel roles in wound healing and cancer initiation
12.15 – 12.30	O9 Constanza Vasquez Doorman - Zic-1 activates planarian stem cells for head regeneration
12.30 – 13.30	Lunch and Exhibition Viewing – Bridge Suite
Session 4:	Stem cells and dynamics – Discussion leader: Magdalena Zernicka-Goetz
13.30 – 14.00	S20 Anna Katerina Hadjantonakis - The dynamics of cell lineage specification in the mouse blastocyst
14.00 – 14.30	S21 Nissim Benvenisty - Modeling genetic and epigenetic disorders using human pluripotent stem cells
14.30 – 15.00	S22 Austin Smith - Embryonic Stem Cells: Capture of a Ground State
15.00 – 15.30	Refreshment Break and Exhibition Viewing
15.30 – 16.00	S23 Dominique Bergmann - Dynamic programming and reprogramming of the stomatal lineage of plants
16.00 – 16.30	S24 Lorenz Studer - Modeling development, age & disease in human pluripotent stem cells
16.30 – 17.00	S25 Tariq Enver - Transcriptional noise and stem cell fate
17.00 – 18:30	Poster viewing
19.30 – 20.00	Pre dinner drinks
20.00 onwards	Conference dinner

Wednesday 5 November, 2014	
08.00 –	Registration opens – Bridge Suite
Session 5:	Nervous system development – Discussion leader: Claudio Stern
09.00 – 09.45	Ann McLaren Memorial Lecture S26 Carole LaBonne - Molecular Underpinnings of Potency Suggest a Novel Origin for the Vertebrate Neural Crest
09.45 – 10.15	S27 Hisato Kondoh - Regionally specific mechanisms of neural plate development
10.15 – 10.45	S28 James Briscoe - The Gene Regulatory Logic for Reading the Sonic Hedgehog Gradient In The Vertebrate Neural Tube
10.45 – 11.15	Refreshment Break and Exhibition Viewing
11.15 – 11.45	S29 Nancy Papalopulu - The role of dynamical gene expression in controlling cell state transitions
11.45 – 12.15	S30 Robb Krumlauf - Coupling Hox genes to head development in chordate evolution: A story in segments
12.15 – 12.30	O10 Andrew Copp – Epithelial bending in spinal cord closure
12.30 – 12.45	O11 Raman Das – A new form of cell-sub-division mediates detachment and differentiation of newborn neurons
12.45 – 13.30	Lunch and Exhibition Viewing
12.45 – 13.30	ISD Members Meeting held in the Tower Suite
Session 6:	Reprogramming the Genome in Development and Evolution – Discussion leader: Josh Brickman
13.30 – 13.45	O12 Wanda Buzgariu – Plasticity of epithelial cells in <i>Hydra</i>
13.45 – 14.15	S31 Elaine Ostrander - Genetics of morphology in domestic dogs
14.15 – 14.45	S32 Chris Lowe - The evolution of A/P axis specification in deuterostomes
14.45 – 15.00	Refreshment Break and Exhibition Viewing
15.00 – 15.15	O13 Dorit Hockman – The development and evolution of vertebrate oxygen-sensing cells
15.15 – 15.45	S33 Sophie Jarriault - Transdifferentiation: what underlies its efficiency?
15.45 – 16.15	S34 Detlev Arendt - Evolution of neurons and nervous systems