Wellcome Trust - Medical Research Council
Cambridge Stem Cell Institute

PhD Day Symposium

Thursday 13 July 2017

Talks: William Harvey Lecture Theatre,
University of Cambridge School of Clinical Medicine

Poster session: Seminar Rooms,
University of Cambridge School of Clinical Medicine

Talk Schedule

	Session 1	
09:40	**Alisa Molotova, CSCI PhD rep** Welcome	**Franklin/Chalut**
09:45	**Dr Alessandro Serra** Multiplexing done easy: Detect miRNA or proteins directly from crude samples with Fireplex	**Abcam**
09:55	**Stanley Strawbridge** Session introduction	**Smith**
10:00	**Moosa Qureshi** Cellular Model of CEBPA N321D aims to capture Gene Expression Profile in the Transition to Pre-Leukaemic Status	**Göttgens**
10:15	**Olivia Harris** Un(MaSC)ing mammary gland development: combining novel lineage tracing and 3D imaging for studying mammary stem cells	**Watson**
10:30	**Claudia Pama** Myelination during development and learning	**Káradóttir**
10:45	**Anastasiya Sybirna** Exploring transcriptional regulators of human germ cell fate	**Surani**
11:00	**Madeline McNamara** Development of potential therapeutic strategies for Marfan Syndrome using a human iPSC-derived *in vitro* disease model	**Sinha**
11:15	*Coffee break*	
	Session 2	
11:40	**Dr Rebecca Jones** Public Engagement – ways to get involved	**SCI Public Engagement**
11:50	**Eugene Park** Session introduction	**Ringshausen**
11:55	**Serena Belluschi** Molecular regulation of quiescence exit within the heterogeneous human LT-HSC compartment	**Laurenti**
12:10	**Lucia Cordero Espinoza** Stromal regulation of facultative progenitors in the regenerating liver	**Huch**
12:25	**Dr Brian Huntly** Introduction to External Speaker	
12:30	**Professor Margaret Goodell -** External Speaker Immortal Stem Cells and their Epigenetic Regulation	**Baylor College of Medicine, Texas**
13:30	*Lunch Buffet*	

Session 3

14:15	**Julia Spindel** Session introduction	**Reik**
14:20	**Anna Albiero** Cartilage progenitor cells: study of DACTs proteins in human articular cartilage	**McCaskie**
14:35	**Rebecca Caeser** Functional mutation screening using CRISPR in germinal centre malignancies	**Hodson**
14:50	**Fiona Hamey** Modelling the transcriptional landscape of haematopoiesis	**Göttgens**
15:05	**Michael Segel** Contextualising OPC Ageing	**Franklin**
15:20	*Coffee break*	

Session 4

15:45	**Cora Olpe** Session introduction	**Winton**
15:50	**Ludovica Di Canio** Regulation of oligodendrocyte lineage cell progression by the RXRγ nuclear receptor	**Franklin**
16:05	**Caroline Oedekoven** Characterisation of fate choice regulators in single mouse haematopoietic stem cells	**Kent**
16:20	**Giovanni Canu** Cell-cycle dependent mechanisms controlling differentiation of haematopoietic stem cells	**Vallier**
16:35	**Amanda Collier** Comprehensive Cell Surface Protein Profiling Identifies Specific Markers of Human Naive and Primed Pluripotent States	**Rugg-Gunn**
16:50	*End of talks*	
17:00	**Closed PI meeting**	
17:00	*Poster session, with refreshments*	
18:30	*Talk and poster winners announced*	

#StemCellPhD

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Poster List

1	**Theresa Bartels** Systematic Characterisation of Astrocyte Heterogeneity in the Mouse Forebrain by RNAscope	**Rowitch**
2	**Lawrence Bates** Developing new methods to study the role of Oct4 in pluripotency	**Silva**
3	**James Baye** The thermodynamics of stem cell fate transitions: single-cell and collective dynamics	**Chalut**
4	**Francesca Beaton** The Bone Marrow Niche and its Manipulation for Cartilage and Bone Repair	**McCaskie**
5	**Daniel Bode** Characterisation of protein networks driving haematopoietic stem cell fate choice	**Kent**
6	**Jan Botthof** Loss of the homologous recombination gene rad51 leads to Fanconi anemia-like symptoms in zebrafish	**Cvejic**
7	**Aracely Castillo Venzor** Decoding the early cell state transitions during primordial germ cell specification	**Surani**
8	**Amanda Dalby** An Inducible Human iPSC Line for the Scaling up of Megakaryocyte and Platelet Production *in vitro* for Transfusion Medicine	**Ghevaert**
9	**Charlene Fabian** Polycomb-Group Proteins in Human Pancreatic Cell Differentiation	**Rugg-Gunn**
10	**Sophie Frankham-Wells** The interaction of a blood subpopulation and MSCs in hypoxia	**McCaskie**
11	**Nikoletta Gkatza** Post-transcriptional RNA methylation affects protein translation and response to stress	**Frye**
12	**Myfanwy Hill** Imaging Demyelination in the CNS	**Franklin**
13	**Wajid Jawaid** Deep learning models of bifurcating developmental journeys from single-cell transcriptomic data can make accurate predictions of gene perturbations	**Göttgens**
14	**Timo Kohler** Cells in Gels: Multi germ layer differentiation of clonal embryonic stem cells in biomimetic microgels	**Chalut**
15	**Tim Lohoff** Mechanisms of lineage commitment during exit from pluripotency *in vivo*	**Nichols/Reik**
16	**Ludovica Marando** The role of the DNMT3A mutation in the subversion of normal Haematopoietic Stem Cell function and generation of preleukaemia	**Huntly**

17	**Jamie McGinn** Epithelial stem cell fate plasticity in health and disease; a mouse oesophageal model	**Alcolea**
18	**Chris McMurran** Remyelination in germ-free mice	**Franklin**
19	**Alisa Molotova** Dynamic interplay between ageing OPCs and their surrounding microenvironment	**Franklin/Chalut**
20	**Sam Myers** Determining the signalling pathways that govern naive human pluripotency	**Smith**
21	**Cora Olpe** Investigating the Cancer Chemopreventive Effect of Aspirin	**Winton**
22	**Anna Osnato** Transcriptional networks variations during cell cycle progression in human embryonic stem cells	**Vallier**
23	**Luca Peruzzotti-Jametti** Transplanted induced neural stem cells ameliorate experimental autoimmune encephalomyelitis by metabolic reprogramming of mononuclear phagocytes	**Pluchino**
24	**Blanca Pijuan-Sala** eRNAs: a potential proxy for enhancer state during blood differentiation at the single-cell level	**Göttgens**
25	**Alexander Ross** Development of gut location and developmental stage specific iPSC derived human intestinal epithelial organoids for use in disease modelling, drug discovery and autologous cell therapy	**Vallier**
26	**Antonella Santoro** Hematopoietic niche remodelling in B cell malignancies	**Ringshausen**
27	**Vijitha Sathiaseelan** Characterization of ZAP70 mediated signaling pathways in distinct cellular compartments in Chronic Lymphocytic Leukaemia.	**Ringshausen**
28	**Kirsten Scott** B lymphocytes in Parkinson's Disease	**Barker**
29	**Mairi Shepherd** Single cell approaches identify the molecular network driving malignant haematopoietic stem cell self-renewal	**Kent**
30	**Elsa Sousa** Investigating the link between naïve cell identity and X-inactivation	**Silva**
31	**Julia Spindel** The role and regulation of UHRF1 during epigenetic reprogramming	**Reik**
32	**Samantha Tilson** Induced Pluripotent Stem Cell Derived Model for the Study of Non-alcoholic Steatohepatitis and Hepatitis C Virus	**Vallier**

33	**Katie Tremble** The Role of Sox2 in Induced Pluripotency	**Silva**
34	**Christophe Verstreken** Cell substrate stretching affects mechanotransduction pathways and the pluripotency network in ES cells	**Chalut**
35	**Sam Watcham** Modelling Haematopoiesis in Health and Disease across Different Scales	**Göttgens**
36	**Brandon Wesley** Single-cell analysis of primary human hepatocytes for improved maturation and population heterogeneity of iPSC-derived hepatocytes	**Vallier**
37	**Bao Xiu Tan** The roles of mechanotransduction in pluripotency and cell fate decisions	**Chalut**
38	**Loukia Yiangou** Control of mesoderm specification by cell cycle regulators	**Sinha/Vallier**

Notes

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