

## Oral Program

Sunday, September 20, 2015	
12:00-14:30	Registration   <i>Hall Tramuntana</i>
<b>Room</b>	<b>Tramuntana 3</b>
14:30-17:45	<b>Opening &amp; Session 1: Reprogramming and Pluripotency</b> <i>Session Chair: Bing Ren</i>
14:30-14:50	Welcome and Introduction   Luciano Di Croce and Christina Lilliehook
14:50-15:45	<b>Keynote speaker: Joanna Wysocka, Stanford University, USA</b> Cellular anthropology: Using stem cells to study human evolution [KEY01]
15:45-16:15	<b>Huck Hui Ng, Genome Institute of Singapore, Singapore</b> Systems biology of stem cells [INV01]
16:15-16:45	<b>Maria Elena Torres-Padilla, IGBMC, France</b> Epigenetic mechanisms in early mammalian development: Searching for global chromatin trends [INV02]
16:45-17:00	<b>B. Di Stefano, Center for Genomic Regulation (CRG), Spain</b> C/EBP $\alpha$ establishes an elite epigenetic cell state for reprogramming into pluripotency [ST01]
17:00-17:15	<b>A. Rada-Iglesias, Center for Molecular Medicine Cologne, Germany</b> Foxd3 promotes the exit from naïve pluripotency and prevents germline specification through enhancer decommissioning [ST02]
17:15-17:45	<b>Marius Wernig, Stanford University, USA</b> Direct reprogramming towards the neural lineage [INV03]
17:45-19:15	Welcome drinks reception   <i>Tramuntana 1&amp; 2</i>
Monday, September 21, 2015	
<b>Room</b>	<b>Tramuntana 3</b>
09:00-10:30	<b>Session 2: Gene Regulation of Stem Cells</b> <i>Session Chairs: Bernhard Payer and Luciano Di Croce</i>
09:00-09:30	<b>Howard Chang, Stanford University, USA</b> Genome Regulation by Long Noncoding RNAs [INV04]
09:30-10:00	<b>Luciano Di Croce, Centro de Regulación Genómica (CRG), Spain</b> Epigenetic regulation of stem cell self-renewal and differentiation [INV05]
10:00-10:15	<b>A.P. Bracken, Trinity College Dublin, Ireland</b> Identification of novel PRC2 associated proteins required for mono-, di- or tri-methylation of H3K27 in ES cells [ST03]
10:15-10:30	<b>C. Ferrai, Max Delbrück Center for Molecular Medicine, Germany</b> Mechanisms of Polycomb repression are associated with poised RNAPII states during terminal neuronal differentiation [ST04]
10:30-11:00	Refreshment break   <i>Tramuntana 1&amp; 2</i>
<b>Room</b>	<b>Tramuntana 3</b>
11:00-12:30	<b>Session 2: Gene Regulation of Stem Cells (contd.)</b>   <i>Room: Tramuntana 2&amp;3</i> <i>Session Chairs: Bernhard Payer and Luciano Di Croce</i>
11:00-11:30	<b>Amanda Fisher, Imperial College London, UK</b> Linking epigenetics and signalling in the early mammalian embryo [INV06]
11:30-12:00	<b>Yang Shi, Harvard University, USA</b> Mechanistic study of enhancers in cancer [INV07]
12:00-12:15	<b>I. Chambers, University of Edinburgh, UK</b> Transcription factor control of transitions in pluripotent cell states [ST05]
12:15-12:30	<b>D. Nicetto, University of Pennsylvania, USA</b> Dynamics of H3K9me3 establishment in murine hepatic lineage development [ST06]
12:30-13:30	Speed networking lunch   <i>Noray Restaurant</i>
13:30-14:30	Poster session   <i>Tramuntana1&amp; 2</i>

<b>Room</b>	<b>Tramuntana 3</b>
<b>14:30-15:45</b>	<b>Session 3: DNA Methylation</b> <i>Session Chair: Maria Elena Torres-Padilla</i>
14:30-15:00	<b>Wolf Reik</b> , <i>Babraham Institute, UK</i> Epigenetic reprogramming in mammalian development [INV08]
15:00-15:30	<b>Kristian Helin</b> , <i>University of Copenhagen, Denmark</i> Role of Polycomb group proteins and histone demethylases in transcriptional regulation and stemness [INV09]
15:30-15:45	<b>D. Pasini</b> , <i>European Institute of Oncology, Italy</i> Polycomb group protein activities in adult stem cells [ST07]
<b>15:45-16:15</b>	<b>Refreshment break   Tramuntana 1&amp; 2</b>
<b>Room</b>	<b>Tramuntana 3</b>
<b>16:15-17:30</b>	<b>Session 3: DNA Methylation (contd.)</b> <i>Session Chair: Maria Elena Torres-Padilla</i>
16:15-16:30	<b>A. Monfort</b> , <i>ETHZ, Switzerland</i> Genetic screening in mouse haploid embryonic stem cells identifies SPEN as silencing factor for Xist [ST08]
16:30-17:00	<b>Dirk Schübeler</b> , <i>Friedrich Miescher Institute for Biomedical Research, Switzerland</i> Reading and writing DNA methylation [INV10]
17:00-17:15	<b>TBC [ST09]</b>
17:15-17:30	<b>S.A. Benitah</b> , <i>Institute for Research in Biomedicine (IRB Barcelona), Spain</i> Enhancer modulation by Dnmt3a and Dnmt3b regulates epidermal stem cell homeostasis: Impact on ageing and cancer [ST10]
<b>19:00-22:30</b>	<b>Meet the speakers dinner (ticket holders only)</b> - Meet in the hotel lobby to walk to the Can Laury restaurant – please note that this walk is 5 minutes down a large number of stairs
<b>Tuesday, September 22, 2015</b>	
<b>Room</b>	<b>Tramuntana 3</b>
<b>09:00-10:45</b>	<b>Session 4: Genome Editing and Single Cell Analysis</b> <i>Session Chairs: Danwei Huangfu and Fuchou Tang</i>
09:00-09:30	<b>Danwei Huangfu</b> , <i>Memorial Sloan Kettering Cancer Center, USA</i> TET-dependent epigenetic mechanisms in hESC differentiation [INV11]
09:30-09:45	<b>R. Maehr</b> , <i>UMass Medical School, USA</i> Functional annotation of native enhancers with a Cas9–histone demethylase fusion [ST11]
09:45-10:15	<b>Charles Gersbach</b> , <i>Duke University, USA</i> Epigenome editing with CRISPR/Cas9 technologies for programming cell phenotype [INV12]
10:15-10:45	<b>Alexander van Oudenaarden</b> , <i>Hubrecht Institute, the Netherlands</i> Single-cell 5hmC sequencing reveals extensive chromosome-wide epigenetic heterogeneity among individual cells [INV13]
<b>10:45-11:15</b>	<b>Refreshment break   Tramuntana 1&amp; 2</b>
<b>Room</b>	<b>Tramuntana 3</b>
<b>11:15-12:30</b>	<b>Session 4: Genome Editing and Single Cell Analysis (contd.)</b> <i>Session Chairs: Danwei Huangfu and Fuchou Tang</i>
11:15-11:45	<b>Ido Amit</b> , <i>Weizmann Institute of Science, USA</i> Shaping the blood: Lessons from Chromatin and single cell RNA dynamics [INV14]
11:45-12:15	<b>Fuchou Tang</b> , <i>Peking University, China</i> Dissecting gene regulation network in human early embryos at single-cell and single-base resolution [INV15]
12:15-12:30	<b>D. Lara-Astiaso</b> , <i>Weizmann Institute of Science, Israel</i> Comprehensive mapping of chromatin dynamics during blood formation [ST12]
<b>12:30-13:30</b>	<b>Lunch   Restaurant</b>

13:30-14:30	<b>Poster Session contd.</b>   <i>Tramuntana 1&amp; 2</i>
<b>Room</b>	<b><i>Tramuntana 3</i></b>
<b>14:30-16:25</b>	<b>Session 5: Genome Organization in Stem Cells</b> <i>Session Chair: Joanna Wysocka</i>
14:30-15:00	<b>Kathrin Plath</b> , <i>University of California Los Angeles, USA</i> Reorganization of the enhancer landscape by the Yamanaka factors <b>[INV16]</b>
15:00-15:15	<b>M. Modic</b> , <i>Institute of Stem Cell Research, Helmholtz Center Munich, Germany</i> Mutually exclusive states of pluripotency and differentiation regulated by TDP43-mediated alternative polyadenylation of paraspeckle scaffold lncRNA NEAT1 <b>[ST13]</b>
15:15-15:30	<b>D. Cornacchia</b> , <i>Sloan Kettering Institute, USA</i> Induced pluripotent stem cells for the study of cellular aging and rejuvenation <b>[ST14]</b>
15:30-16:25	<b>Keynote speaker: Bing Ren</b> , <i>University of California San Diego, USA</i> Genome topology and transcriptional control <b>[KEY02]</b>
<b>16:25-16:45</b>	<b>Closing Remarks</b>   <b>Luciano Di Croce and Miao-Chih Tsai</b>