

MEETING

CHROMOSOMES, STEM CELLS AND DISEASE

20-21 September 2012

PROGRAM

Thursday September 20

08:30 Registration

09:25 Welcome by Miguel BEATO (CRG)

Chair: Tony KOUZARIDES (Gurdon Institute)

09:30 **Tony KOUZARIDES**
Gurdon Institute, University of Cambridge, UK

“Chromatin modification pathways”

10:00 **Peter FRASER**
Nuclear Dynamics and Function Laboratory, The Babraham Institute, Cambridge UK

“From cell populations to single molecule analyses of chromosome folding”

10:30 Short talk selected from abstracts

Alejandra GONZÁLEZ LOYOLA
Cell Division and Cancer Group, Spanish National Cancer Research Center (CNIO), Madrid ES

“Understanding the role of Aurora kinases in pluripotency”

10:45 Short talk selected from abstracts

François SPITZ
Developmental Biology Unit, EMBL Heidelberg, Heidelberg DE

“Deciphering the regulatory architecture of the mouse genome”

11:00 Coffee break

Chair: Ernest LAUE (University of Cambridge)

11:30 **Job DEKKER**
Program in Systems Biology, Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, Worcester (MA) US

“Folding principles of genomes”

12:00 Short talk selected from abstracts

Holger RICHLY
Molecular Epigenetics, Institute of Molecular Biology (IMB), Mainz DE

“Function of Polycomb Repressive Complex 1 (PRC1) in Repair of UV-type DNA damage”

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12:15 Short talk selected from abstracts

Joan SEOANE

*Gene Expression and Cancer Group, Vall d'Hebron Institute of Oncology (VHIO),
Barcelona ES*

“Regulation of the cell state of differentiation by TGF-beta”

12:30 **Leonid MIRNY**

*Harvard-MIT Division of Health Sciences and Technology, Massachusetts Institute
of Technology, Cambridge (MA) US*

“Higher order chromatin architecture shapes the landscape of chromosomal
alterations in cancer”

13:00 Lunch and Poster Session

Chair: Giacomo CAVALLI (Institute of Human Genetics)

14:30 Short talk selected from abstracts

Adrian BRACKEN

Smurfit Institute of Genetics, Trinity College Dublin, IE

“The Polycomb PHF19 recruits the H3K36me3 demethylase NO66 to silence
hitherto active genes during embryonic stem cell differentiation”

14:45 Short talk selected from abstracts

François LE DILY

*Chromatin and Gene Expression Group, Gene Regulation, Stem Cells and Cancer
Program, CRG, Barcelona ES*

“Activation and repression of transcription upon progesterone stimulation occur in
spatially segregated environments”

15:00 **Eduard BATLLE**

*Colorectal cancer laboratory, Oncology, Institute for Research in Biomedicine (IRB),
Barcelona ES*

“From Colon Stem Cells to Colorectal Cancer”

15:30 Short talk selected from abstracts

Maria José BARRERO

Center for Regenerative Medicine in Barcelona (CMRB), Barcelona ES

“Overcoming the epigenetic barrier during reprogramming to pluripotency”

15:45 **Giacomo CAVALLI**

Chromatin and Cell Biology, Institute of Human Genetics, Montpellier FR

“Polycomb proteins, germ cells and nuclear organization in flies”

16:15 Coffee break

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Chair: Thomas GRAF (CRG)

- 16:45 **Guy SAUVAGEAU**
Molecular Genetics of Stem Cells Laboratory, Institute of Research in Immunology and Cancer (IRIC), University of Montreal, Montreal CA
“Chemo-Genomics of Leukemia Stem Cell Self-Renewal”
- 17:15 Short talk selected from abstracts
Yusuke MIYANARI
Institute of Genetics and Molecular and Cellular Biology (IGBMC), Illkirch FR
“Control of ground state pluripotency by allelic regulation of Nanog”
- 17:30 **Anton WUTZ**
Epigenetic Regulation and Cell Identity Control, Department of Biochemistry, University of Cambridge, Cambridge UK
“Characterization of haploid embryonic stem cells from mouse embryos”
- 18:00 **Thomas GRAF**
Gene Regulation, Stem Cells and Cancer Programme, CRG, Barcelona ES
“Mechanisms of C/EBP α induced immune cell transdifferentiation”
- 18:30 Pica pica & poster session

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Friday September 21

Chair: Kristian HELIN (Biotech Research and Innovation Centre)

- 09:30 **Neil BROCKDORFF**
Developmental Epigenetics, Department of Biochemistry, University of Oxford, UK
“Polycomb complexes in X chromosome inactivation and beyond”
- 10:00 **Kristian HELIN**
Biotech Research and Innovation Centre (BRIC), Centre for Epigenetics, University of Copenhagen, DK
“Mechanisms regulating the recruitment of Polycomb Group proteins to target genes”
- 10:30 Short talk selected from abstracts
Alessio ZIPPO
Dipartimento di Biotecnologie Università di Siena; and Istituto Nazionale di Genetica Molecolare (INGM), Milano IT
“Myc blocks cell differentiation through the recruitment of the PRC2 complex”
- 10:45 Short talk selected from abstracts
Diego PASINI
Epigenetic mechanisms in stem cell differentiation and oncogenesis, Department of Experimental Oncology, European Institute of Oncology, Milano IT
“Ten Eleven translocation proteins link the O-linked N-acetylglucosamine transferase Ogt to chromatin”
- 11:00 Coffee break

Chair: Luciano DI CROCE (CRG)

- 11:30 **Ramin SHIEKHATTAR**
Gene Expression and Regulation, The Wistar Institute, Philadelphia (PA) US
“Long noncoding RNAs and transcriptional regulation”
- 12:00 **Yang SHI**
Department of Pathology, Harvard Medical School & Division of Newborn Medicine, Department of Medicine, Children’s Hospital, Boston (MA) US
“Histone methylation regulation, recognition and link to human disease”
- 12:30 **Paola SCAFFIDI**
Cell Biology of Genomes Group, National Cancer Institute, NIH, Bethesda (MD) US
“Epigenetic mechanisms of tumor maintenance”
- 13:00 Lunch