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## Wednesday, 13 May 2009

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- 15:00 - 17:45 **RECEPTION AND REGISTRATION**  
Operon Foyer
- 17:45 - 18:00 **Opening remarks**  
Operon Large
- 18:00 - 19:50 **SESSION 1- CHROMATIN AND NON CODING RNAs**  
**Chairs: M. Matzke and T. Kouzarides**  
Operon Large
- 18:00 - 18:20 **Comparative Visualization of Transcriptional Induction in Interphase and Post-Mitotic Cells** 1  
David Spector  
*Cold Spring Harbor Laboratory, United States of America*
- 18:20 - 18:40 **The Epigenome and Small RNA Repertoire in Mammalian Germ Cells** 2  
Hiroyuki Sasaki  
*National Institute of Genetics, Japan*
- 18:40 - 18:55 **A ncRNA regulates the epigenetic switch at the basis of facioscapulohumeral muscular dystrophy (FSHD)** 3  
  
Davide Gabellini  
*Fondazione Centro San Raffaele del Monte Tabor, Italy*
- 18:55 - 19:10 **Functional Interaction between the Nucleosome Remodeling Factor ISWI and the Hsr-omega non-coding RNA** 4  
Davide Corona  
*Dulbecco Telethon Institute c/o Università di Palermo, Italy*
- 19:10 - 19:30 **Chromatin modifications differentiate imprinted genes and tissue-specific silenced genes** 5  
Denise Barlow  
*CeMM Center for Molecular Medicine of the Austrian Academy of Sciences, Austria*

19:30 - 19:50 **Specialized transcriptional machinery required for RNA-directed DNA methylation** 6  
Marjori Matzke  
*Gregor Mendel Institute of Molecular Plant Biology, Austria*

19:50 - 20:10 **REFRESHMENTS**  
Operon Foyer

20:10 - 21:00 **CONCERT**  
Operon Large

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### Thursday, 14 May 2009

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09:00 - 15:50 **SESSION 2 - REPROGRAMMING AND IMPRINTING**  
**Chairs: W. Reik and A. Ferguson-Smith**  
Operon Large

09:00 - 09:20 **To be announced** 7  
Wolf Reik  
*The Babraham Institute, United Kingdom*

09:20 - 09:35 **Characterisation of a new lysine methylation site that marks heterochromatin and is dynamically remodelled during reprogramming and development** 8  
Robert Schneider  
*Max Planck Institute for Immunobiology (MPI-IB), Germany*

09:35 - 09:50 **Contribution of specific residues within histone H3 variants to reprogramming and development in the early mouse embryo.** 9  
Maria-Elena Torres-Padilla  
*Institute of Genetics and Molecular and Cellular Biology (IGBMC), France*

09:50 - 10:10 **X-inactivation as a Developmental Process : Regulating Xist** 10  
Philip Avner  
*Institut Pasteur, France*

10:10 - 10:40 **COFFEE BREAK**  
Operon Foyer

10:40 - 11:00	<b>Heterochromatin reprogramming by RNAi during cell division and differentiation</b> Robert Martienssen <i>Cold Spring Harbor Laboratory , United States of America</i>	11
11:00 - 11:15	<b>The control of chromatin differentiation during early embryogenesis in Drosophila</b> Gunter Reuter <i>Martin Luther University, Germany</i>	12
11:15 - 11:30	<b>REST interacts with activator ATAD2 in a cell cycle dependent manner to promote neuronal gene expression</b>  Parul Choudhary <i>The Babraham Institute, University of Cambridge, United Kingdom</i>	13
11:30 - 11:50	<b>Dlk1 regulates adult neural stem cell maintenance via control of genomic imprinting</b> Anne Ferguson-Smith <i>University of Cambridge, United Kingdom</i>	14
11:50 - 13:20	<b>LUNCH</b> Operon Foyer	
13:20 - 15:50	<b>POSTER SESSION A-F</b>  Tent outside EMBL's main entrance	
15:50 - 18:45	<b>SESSION 3 - EPIGENETIC BALANCING</b> <b>Chairs: A. Akhtar and U. Grossniklaus</b> Operon Large	
15:50 - 16:10	<b>Lessons from the X: ncRNA regulation of the epigenome</b>  Jeannie Lee <i>Massachusetts General Hospital, United States of America</i>	15

16:10 - 16:25	<b>Characterisation of DNA methyltransferases expression during sexual reproduction in <i>Arabidopsis thaliana</i></b>	16
	Pauline Jullien <i>Temasek Lifesciences Laboratory, Singapore</i>	
16:25 - 16:45	<b>The role of nuclear pore components in gene regulation</b>	17
	Asifa Akhtar <i>EMBL, Germany</i>	
16:45 - 17:05	<b>Recognition of DNA and Histone Tails by Chromodomains</b>	18
	Sepideh Khorasanizadeh <i>University of Virginia, United States of America</i>	
17:05 - 17:35	<b>COFFEE BREAK</b> Operon Foyer	
17:35 - 17:55	<b>Stability and plasticity of heterochromatin in <i>Arabidopsis</i></b>	19
	Ortrun Mittelsten Scheid <i>Gregor Mendel Institute of Molecular Plant Biology, Austria</i>	
17:55 - 18:10	<b>H19 acts as a trans regulator of the Imprinted Gene Network controlling growth in mice</b>	20
	Luisa Dandolo <i>Institut Cochin, Faculté de Médecine, France</i>	
18:10 - 18:25	<b>b1 paramutation: the heritable transfer of epigenetic information in trans</b>	21
	Maike Stam <i>Swammerdam Institute for Life Sciences, Universiteit van Amsterdam, Netherlands</i>	
18:25 - 18:45	<b>Epigenetic Reprogramming of the <i>Arabidopsis</i> Paternal Genome after Fertilization</b>	22
	Ueli Grossniklaus <i>University of Zürich, Institute of Plant Biology &amp; Zürich-Basel Plant Science Center, Switzerland</i>	

18:45 - 20:00 **DINNER**  
Canteen

20:00 - 21:00 **BEER SESSION**  
Operon Foyer

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**Friday, 15 May 2009**

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09:00 - 15:50 **SESSION 4 - CHROMATIN AND HISTONE DYNAMICS**  
**Chairs: G. Almouzni and K. Helin**  
Operon Large

09:00 - 09:20 **Chromatin assembly factors and the challenges of DNA replication and repair** 23  
Geneviève Almouzni  
*CNRS/Curie Institute, France*

09:20 - 09:35 **Clustering heterochromatin: Sir3 promotes telomere clustering independently of silencing in Budding yeast** 24  
  
Angela Taddei  
*Institut Curie, France*

09:35 - 09:50 **Nuclear organization of Pc domains in Drosophila central brain cells** 25  
Bas Tolhuis  
*NKI-AVL, Netherlands*

09:50 - 10:10 **Lessons learned from yeast about human leukemia** 26  
Ali Shilatifard  
*Stowers Institute for Medical Research, United States of America*

10:10 - 10:40 **COFFEE BREAK**  
Operon Foyer

10:40 - 11:00 **Histone Methyltransferases and Demethylases in Cell Proliferation and Disease** 27  
Kristian Helin  
*University of Copenhagen, Denmark*

11:00 - 11:15	<b>Chromosome-Wide Rad51 Spreading and SUMO-H2A.Z-Dependent Chromosome Fixation in Response to a Persistent DNA Double-Strand Break</b> Marian Kalocsay <i>Max-Planck-Institute of Biochemistry, Germany</i>	28
11:15 - 11:30	<b>Np95 recruits Suz12 on the mOct4 proximal promoter</b>  Ian Marc Bonapace <i>University of Insubria, Italy</i>	29
11:30 - 11:50	<b>Novel enzymatic activities of the polycomb system in Drosophila</b> Jürg Müller <i>EMBL, Germany</i>	30
11:50 - 13:20	<b>LUNCH</b> Operon Foyer	
13:20 - 15:50	<b>POSTER SESSION G - O</b>  Tent outside EMBL's main entrance	
15:50 - 18:40	<b>SESSION 5 - EPIGENOMICS</b> <b>Chairs: P. Silver and T. Jenuwein</b> Operon Large	
15:50 - 16:10	<b>Unraveling occupancy and organization of the genome</b>  Robert Kingston <i>Massachusetts General Hospital, United States of America</i>	31
16:10 - 16:25	<b>The JmjC-protein Msc1 ensures that H2A.Z is not found in the wrong chromatin domains</b> Francis Stewart <i>Technische Universität Dresden, Germany</i>	32
16:25 - 16:45	<b>Epigenetic control by histone methylation</b> Thomas Jenuwein <i>Max-Planck-Institute of Immunobiology, Germany</i>	33

16:45 - 17:00	<b>Chromatin dynamics of basal transcription complexes</b>	34
	Marc Timmers <i>University Medical Centre Utrecht, Netherlands</i>	
17:00 - 17:20	<b>Genetics of DNA methylation in genes and transposons in <i>Arabidopsis thaliana</i></b>	35
	Tetsuji Kakutani <i>National Institute of Genetics, Japan</i>	
17:20 - 17:50	<b>COFFEE BREAK</b> Operon Foyer	
17:50 - 18:10	<b>DNA methylation in <i>Arabidopsis thaliana</i></b>	36
	Steven Jacobsen <i>University of California - Los Angeles, United States of America</i>	
18:10 - 18:25	<b>Replicating Chromatin: A snapshot of New and Parental Histones in Transit</b>	37
	Anja Groth <i>BRIC, University of Copenhagen, Denmark</i>	
18:25 - 18:40	<b>Topoisomerases stimulate histone turnover and regulate genome wide gene expression</b>	38
	Karl Ekwall <i>Karolinska Institutet, Sweden</i>	
18:40 - 20:00	<b>DINNER</b> Canteen	
20:00 - 21:00	<b>BEER SESSION</b> Operon Foyer	

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## Saturday, 16 May 2009

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09:00 - 19:00	<b>SESSION 6 - CHROMATIN, TRANSCRIPTION AND BEYOND</b> Chairs: V. Colot and M. Carmo- Fonseca Operon Large
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09:00 - 09:20	<b>Histone MacroH2A1.1 Mediates ADP-Ribosylation-Dependent Chromatin Condensation</b>	39
	Andreas Ladurner <i>EMBL, Germany</i>	
09:20 - 09:35	<b>Insights into the mechanism and physiological roles of KRAB/KAP1-mediated epigenetic regulation</b>	40
	Didier Trono <i>Ecole Polytechnique Fédérale de Lausanne, Switzerland</i>	
09:35 - 09:55	<b>HCF-1: Integrating sequence-specific regulators with chromatin modifiers in transcriptional regulation.</b>	41
	Winship Herr <i>University of Lausanne, Switzerland</i>	
09:55 - 10:10	<b>HP1 proteins interfere with SWI/SNF remodeling</b>	42
	Christian Muchardt <i>Institut Pasteur - Paris, France</i>	
10:10 - 10:25	<b>A Molecular Understanding of Epigenetics</b>	43
	Danny Reinberg <i>HHMI at NYU School of Medicine, United States of America</i>	
10:25 - 10:40	<b>Novel insights into the plant histone code: lessons from ORC1</b>	44
	Crisanto Gutierrez <i>Centro de Biología Molecular Severo Ochoa, Spain</i>	
10:40 - 11:10	<b>COFFEE BREAK</b>	
	Operon Foyer	
11:10 - 11:30	<b>Chromatin modifying enzymes: their function and role in cancer</b>	45
	Tony Kouzarides <i>The Gurdon Institute, United Kingdom</i>	

11:30 - 11:45	<b>Ribosomal gene silencing controls cell proliferation and heterochromatin formation at centric and pericentric DNA regions</b> Raffaella Santoro <i>ETH Zürich, Switzerland</i>	46
11:45 - 12:05	<b>Co-transcriptional RNA checkpoints</b> Maria Carmo-Fonseca <i>Instituto de Medicina Molecular, Portugal</i>	47
12:05 - 12:20	<b>RNA-mediated genetic assimilation of a learned behavior in <i>C. elegans</i></b> Jean-Jacques Remy <i>INRA, CNRS UMR 6184, Mediterranee University, France</i>	52
13:00 - 14:30	<b>LUNCH</b> Canteen	
14:30 - 17:00	<b>POSTER SESSION P - Z</b> Tent outside EMBL's main entrance	
17:00 - 18:30	<b>FREE TIME</b>	
18:30 - 20:05	<b>SESSION 7</b> Operon Large	
18:30 - 19:30	<b>Plenary lecture AND Poster prize announcements</b>  <b>Designing Biological Memory</b> Pamela Silver  <i>Harvard Medical School, United States of America</i>	48
20:00 - 01:00	<b>BANQUET DINNER AND PARTY</b> Canteen	

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## Sunday, 17 May 2009

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09:00 - 11:30	<b>SESSION 8 - EPIGENETICS AND DEVELOPMENT</b> Chairs: R. Grosschedl and S. Dent Operon Large	
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09:00 - 09:20	<b>Higher-order chromatin regulators Satb1 and Satb2 regulate Nanog expression and embryonic stem cell differentiation</b> Rudolf Grosschedl <i>Max-Planck-Institute of Immunobiology, Germany</i>	49
09:20 - 09:35	<b>AlkB homologs 1-8; Unique roles in demethylating DNA, RNA and histones?</b> Arne Klungland <i>Oslo University Hospital, Germany</i>	50
09:35 - 09:55	<b>Key decisions in early development: Epigenetic control of cell lineage differentiation</b> Myriam Hemberger <i>The Babraham Institute, United Kingdom</i>	51
09:55 - 10:10	<b>Poster Prize 1</b> Operon Large	
10:10 - 10:40	<b>COFFEE BREAK</b> Operon Foyer	
10:40 - 10:55	<b>Poster Prize 2</b> Operon Large	
11:10 - 11:30	<b>New Functions for the Gcn5 Histone Acetyltransferase</b> Sharon Dent <i>MD Anderson Cancer Center, United States of America</i>	53
11:30 - 12:50	<b>LUNCH and DEPARTURE</b> Operon Foyer	