
Saturday 25 August 2018

15:00 - 18:00	Arrival and Registration ATC Registration Desk	
16:30 - 17:30	Pre-Conference Workshop ATC Courtyard Seminar Room	
18:00 - 18:15	Welcome and Opening Remarks ATC Auditorium	
18:15 - 20:00	Session 1 Chair: Eileen Furlong, <i>EMBL Heidelberg, Germany</i> ATC Auditorium	
18:15 - 18:35	FIREnano and ChromEMT: Visualizing the structural basis of gene activation and silencing in the nucleus Clodagh O'Shea <i>Salk Institute for Biological Studies, United States of America</i>	1
18:35 - 18:55	Gene Expression Within the Context of a Topologically Associating Domain Douglas Higgs <i>MRC Weatherall Institute of Molecular Medicine, University of Oxford, United Kingdom</i>	2
18:55 - 19:10	RNA-mediated regulation of chromatin complexes Roberto Bonasio <i>University of Pennsylvania, United States of America</i>	3
19:10 - 19:25	Decoding the chromatin proteome of a single genomic locus by DNA sequencing Fred van Leeuwen <i>Netherlands Cancer Institute, The Netherlands</i>	4
19:25 - 19:45	Epigenetic Regulation of HIV Transcription Melanie Ott <i>Gladstone Institutes, University of California, San Francisco, United States of America</i>	5

EMBL Conference: Transcription and Chromatin

- 19:45 - 20:05 **A sequence anomaly of the MLL promoter imposes a transcription factor addiction in leukemia** 6
Christopher Vakoc
Cold Spring Harbor Laboratory, United States of America
- 20:05 - 21:30 **Dinner**
EMBL Canteen
- 21:30 - 23:00 **Welcome Reception**
ATC Auditorium Foyer and ATC Rooftop Lounge

Sunday 26 August 2018

09:00 - 12:40	Session 2 Co-Chairs: Peter Verrijzer, <i>Erasmus MC, The Netherlands</i> and Wendy Bickmore, <i>MRC Human Genetics Unit, University of Edinburgh, United Kingdom</i> ATC Auditorium	
09:00 - 09:20	Active chromatin marks drive spatial sequestration of heterochromatin in differentiated cells Susan Gasser <i>Friedrich Miescher Institute for Biomedical Research, Switzerland</i>	7
09:20 - 09:40	Induced activation of Polycomb-repressed genes in mice Haruhiko Koseki <i>RIKEN Center for Integrative Medical Sciences, Japan</i>	8
09:40 - 09:55	Independent and overlapping roles of PRC2.1 and PRC2.2 complexes in the localisation of H3K27me2 and H3K27me3 in ESCs Adrian Bracken <i>Trinity College Dublin, Ireland</i>	9
09:55 - 10:10	Comprehensive theoretical analysis of the Polycomb – Trithorax system predicts that poised chromatin is robustly bistable minimally bivalent and minimally bivalent Leonie Ringrose <i>Humboldt Universität zu Berlin, Germany</i>	10
10:10 - 10:25	Targeting the X chromosome for dosage compensation Peter B. Becker <i>Ludwig-Maximilians-Universität München, Germany</i>	11
10:25 - 10:45	Molecular basis of chromatin binding and modification by histone lysine methyltransferases Jürg Müller <i>Max Planck Institute of Biochemistry, Germany</i>	12
10:45 - 11:15	Coffee Break ATC Auditorium Foyer	

EMBL Conference: Transcription and Chromatin

- 11:15 - 11:35 **GPIF limits Polycomb Repressive Complex 2 activity in mammalian germ cells** 13
Raphaël Margueron
Institut Curie, France
- 11:35 - 11:50 **Modelling the pathological long-range regulatory effects of structural variation with patient-specific hiPSC** 14
Alvaro Rada-Iglesias
University of Cologne, Germany
- 11:50 - 12:05 **Telobox motifs recruit CLF/SWN-PRC2 for H3K27me3 deposition via TRB factors in Arabidopsis** 15
Franziska Turck
Max Planck Institute for Plant Breeding Research, Germany
- 12:05 - 12:20 **Recruitment of Polycomb Repressive Complex 2 by MTF2 in embryonic stem cells contributes to lineage specification** 16
Gert Jan Veenstra
Radboud University, The Netherlands
- 12:20 - 12:40 **The Epigenetic Status of some Histone Post-Translational Modifications** 17
Danny Reinberg
Howard Hughes Medical Institute at NYU School of Medicine, United States of America
- 12:40 - 14:30 **Lunch**
EMBL Canteen
- 14:30 - 17:00 **Poster Session 1: Odd numbers**
ATC Helices A & B
- 17:00 - 19:15 **Session 3**
Chair: Michael Levine, *Princeton University, United States of America*
ATC Auditorium

17:00 - 17:20	Deciphering Transcriptional Regulation of Human Core Promoters Eran Segal <i>Weizmann Institute of Science, Israel</i>	18
17:20 - 17:40	Transcriptional cofactors display core promoter class-specificity Alexander Stark <i>Research Institute of Molecular Pathology (IMP), Austria</i>	19
17:40 - 17:55	The Evolution of Long-range Gene Regulation at the HoxD locus Denis Duboule <i>University of Geneva and École Polytechnique Fédérale de Lausanne, Switzerland</i>	20
17:55 - 18:10	Exploring the Molecular Basis of Cis-Regulatory Robustness uncovers a Playground for Adaptation of Gene Expression during Evolutionary Diversification of Vertebrate Limbs Rolf Zeller <i>University of Basel, Switzerland</i>	21
18:10 - 18:25	Functional insights into genome topology and enhancer function during embryonic development Eileen Furlong <i>EMBL Heidelberg, Germany</i>	22
18:25 - 18:40	GRO-Seq data resource for identification of pri-miRNAs and keystone enhancers Minna Kaikkonen <i>School of Medicine, University of Eastern Finland, Finland</i>	23
18:40 - 19:00	The Remote Control of Gene Expression Wendy Bickmore <i>MRC Human Genetics Unit, University of Edinburgh, United Kingdom</i>	24
19:00 - 19:15	Dynamics of X-chromosome organisation in the context of genome-wide changes during early mouse embryo development Samuel Collombet <i>Institut Curie, France</i>	25

EMBL Conference: Transcription and Chromatin

19:20 - 21:30 **Dinner**
EMBL Canteen

21:30 - 23:00 **After-dinner Drinks**
ATC Auditorium Foyer and ATC Rooftop Lounge

Monday 27 August 2018

- 09:00 - 12:40 **Session 4**
 Co-Chairs: Karen Adelman, *Harvard Medical School, United States of America* and Denis Duboule, *University of Geneva and Ecole Polytechnique Fédérale de Lausanne, Switzerland*
 ATC Auditorium
- 09:00 - 09:20 **Variable silencing of the repeat genome – implications for non-genetic inheritance** 26
 Anne C. Ferguson-Smith
University of Cambridge, United Kingdom
- 09:20 - 09:40 **A single ubiquitylation site in RNA Polymerase II regulates the transcriptional response to UV damage** 27
 Jesper Svejstrup
The Francis Crick Institute, United Kingdom
- 09:40 - 09:55 **Long-range chromatin interactions on the inactive X and at Hox clusters are regulated by the non-canonical SMC protein Smchd1** 28
 Marnie Blewitt
Walter and Eliza Hall Institute for Medical Research, Australia
- 09:55 - 10:10 **Parallel assessment of enhancer activity in distinct cell types of a complex mammalian tissue** 29
 Arnaud Krebs
EMBL Heidelberg, Germany
- 10:10 - 10:25 **Beyond transcription amplification: MYC-driven oncogenic enhancer reprogramming favors the onset of tumorigenesis by inducing a stem cell-like state.** 30
 Alessio Zippo
University of Trento, Italy
- 10:25 - 10:45 **Common Threads: Metabolism, Epigenetics and the Circadian Clock** 31
 Paolo Sassone-Corsi
University of California, Irvine, United States of America

EMBL Conference: Transcription and Chromatin

- 10:45 - 11:15 **Coffee Break**
ATC Auditorium Foyer
- 11:15 - 11:35 **To be presented onsite** 32
Xavier Darzacq
University of California, Berkeley, United States of America
- 11:35 - 11:50 **Chromatin structure shapes the diffusion dynamics of transcription factors** 33
Nacho Molina
CERBM – Institute of Genetics and Molecular and Cellular Biology (IGBMC), France
- 11:50 - 12:05 **Mitotic chromosome association predicts genome-wide transcription factor occupancy and impact on local chromatin accessibility** 34
David Suter
École Polytechnique Fédérale de Lausanne, Switzerland
- 12:05 - 12:20 **Time-Resolved Analysis Reveals Rapid Dynamics and Broad Scope of the CBP/p300 Acetylome** 35
Chunaram Choudhary
University of Copenhagen, Denmark
- 12:20 - 12:40 **Visualization of Transcription Hubs in Living Drosophila Embryos** 36
Michael Levine
Princeton University, United States of America
- 12:40 - 14:30 **Lunch**
ATC Auditorium Foyer
- 14:30 - 17:00 **Poster Session 2: Even numbers**
ATC Helices A & B
- 17:00 - 19:20 **Session 5**
Chair: Marc Timmers, *University of Freiburg, Germany*
ATC Auditorium

17:00 - 17:20	SWI/SNF (BAF) chromatin remodeling complexes are frequently mutated in cancer: Mechanisms and vulnerabilities	37
	Charles W. M. Roberts <i>St. Jude Children's Research Hospital, United States of America</i>	
17:20 - 17:40	Phase-separation mechanisms in heterochromatin	38
	Geeta Narlikar <i>University of California, San Francisco, United States of America</i>	
17:40 - 17:55	Chromatin remodeling in development and disease	39
	Peter Verrijzer <i>Erasmus MC, The Netherlands</i>	
17:55 - 18:10	Targeted degradation of BRD9 reverses oncogenic gene expression in synovial sarcoma	40
	Gerard Brien <i>Trinity College Dublin, Ireland</i>	
18:10 - 18:25	Click Chemistry Enables Preclinical Evaluation Of Targeted Epigenetic Therapies	41
	Paola Grandi <i>Cellzome, Germany</i>	
18:25 - 18:40	Implementation of the histone acetyl transferase modules in the SAGA and NuA4 co-activators.	42
	Patrick Schultz <i>Institute of Genetics and Molecular and Cellular Biology (IGBMC), France</i>	
18:40 - 19:00	Deconstructing the Relationship between Chromatin and Transcription during Ultradian Metabolic Cycles	43
	Jane Mellor <i>University of Oxford, United Kingdom</i>	
19:00 - 19:20	Principles of Epigenetics and Chromatin in Development and Human Disease	44
	Ali Shilatifard <i>Northwestern University Feinberg School of Medicine, United States of America</i>	

EMBL Conference: Transcription and Chromatin

19:20 - 21:30 **Dinner**
EMBL Canteen

21:30 - 23:00 **After-dinner Drinks**
ATC Auditorium Foyer and ATC Rooftop Lounge

Tuesday 28 August 2018

- 09:00 - 12:35 **Session 6**
 Co-Chairs: Tony Kouzarides, *University of Cambridge, United Kingdom* and Katherine Jones, *Salk Institute for Biological Studies, United States of America*
 ATC Auditorium
- 09:00 - 09:20 **A molecular mechanism for RNA polymerase II activation** 45
 Patrick Cramer
Max Planck Institute for Biophysical Chemistry, Germany
- 09:20 - 09:40 **The RNAPII CTD kinase, CDK12, cooperates with mTORC1 to regulate gene-specific translation of protein critical for mitotic genome stability** 46
 Katherine Jones
Salk Institute for Biological Studies, United States of America
- 09:40 - 09:55 **Making sense of non-coding transcription at enhancers** 47
 Karen Adelman
Harvard Medical School, United States of America
- 09:55 - 10:10 **Transcription termination and genome organisation** 48
 Jean-Christophe Andrau
CNRS, France
- 10:10 - 10:25 **PHF3 binds RNA polymerase II via the SPOC domain and regulates transcription of neuronal genes** 49
 Dea Slade
University of Vienna, Austria
- 10:25 - 10:45 **The TRiC/CCT chaperonin complex acts as a checkpoint in assembly of the basal transcription factor TFIID** 50
 Marc Timmers
University of Freiburg, Germany
- 10:45 - 11:15 **Coffee Break**
 ATC Auditorium Foyer

EMBL Conference: Transcription and Chromatin

- 11:15 - 11:35 **Epigenetic modulation of a preserved 3D chromatin landscape in two distinct states of pluripotency** 51
Hendrik Stunnenberg
Radboud Institute for Molecular Life Sciences, Radboud University Nijmegen, The Netherlands
- 11:35 - 11:50 **Segregation of the mammalian germline and soma is policed by Otx2** 52
Ian Chambers
University of Edinburgh, United Kingdom
- 11:50 - 12:05 **Recruitment of chromatin remodeler Isw1b depends both on histone H3K36 methylation and DNA-binding** 53
Michaela Smolle
Biomedical Center, Ludwig-Maximilians-Universität München Germany
- 12:05 - 12:20 **Targeting nucleosomes by transcription factors in reprogramming** 54
Abdenour Soufi
University of Edinburgh, United Kingdom
- 12:20 - 12:40 **Transposable elements, their controllers and the speciation of human early embryogenesis** 55
Didier Trono
École Polytechnique Fédérale de Lausanne, Switzerland
- 12:40 - 14:30 **Lunch**
ATC Auditorium Foyer
- 14:30 - 17:00 **Poster Session 3: Odd and even numbers**
ATC Helices A & B
- 17:00 - 19:30 **Session 7**
Chair: Henk Stunnenberg, *Radboud Institute for Molecular Life Sciences, Radboud University Nijmegen, The Netherlands*
ATC Auditorium
- 17:00 - 17:20 **Mechanisms of reprogramming to pluripotency** 56
Kathrin Plath
University of California, San Francisco, United States of America

17:20 - 17:40	A GADD45a-ING1-C/EBP axis regulates energy homeostasis and organismal aging	57
	Christof Niehrs <i>Institute of Molecular Biology (IMB), Germany</i>	
17:40 - 17:55	Repression of divergent noncoding transcription by a sequence-specific transcription factor	58
	Folkert van Werven <i>Francis Crick Institute, United Kingdom</i>	
17:55 - 18:10	Transcription factors activate genes through the phase separation capacity of their activation domains	59
	Ann Bojja <i>Whitehead Institute for Biomedical Research, United States of America</i>	
18:10 - 18:25	Co-translation drives the assembly of mammalian transcription regulatory multi-subunit complexes	60
	Laszlo Tora <i>Institute of Genetics and Molecular and Cellular Biology (IGBMC), France</i>	
18:25 - 18:45	Probing the transcriptional consequences of Ras and Rho activation	61
	Richard Treisman <i>The Francis Crick Institute, United Kingdom</i>	
18:45 - 19:05	Modifications of RNA: their function and role in cancer	62
	Tony Kouzarides <i>Gurdon Institute, University of Cambridge, United Kingdom</i>	
19:05 - 19:15	Closing Remarks	
	ATC Auditorium	
19:30 – 21:30	Conference Dinner	
	EMBL Canteen	
21:30 – 01:00	Conference party with live band	
	ATC Foyer	