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**Wednesday 03 May 2017**


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- 14:30 - 16:15 **Arrival / Registration with light refreshments**  
ATC Reception and Foyer
- 16:15 - 16:30 **Opening remarks**  
ATC Auditorium
- 16:30 - 19:25 **Session 1: Regulation in chromatin**  
**Chairs: Julia Zeitlinger and Geeta Narlikar**  
ATC Auditorium
- 16:30 - 16:55 **Overcoming chromatin barriers to elicit cell fate changes** 1  
Kenneth S. Zaret  
*University of Pennsylvania, United States of America*
- 16:55 - 17:10 **INO80 chromatin remodeller links RNA quality control to transcriptional regulation** 2  
Manolis Papamichos Chronakis  
*Institute for Cell and Molecular Biosciences, Newcastle University, United Kingdom*
- 17:10 - 17:35 **Visualization of transcription initiation genome-wide at single molecule resolution** 3  
Dirk Schübeler  
*Friedrich Miescher Institute for Biomedical Research, Switzerland*
- 17:35 - 18:05 **Coffee break & Meet the speakers**  
ATC Foyer
- 18:05 - 18:30 **Epigenetic reprogramming in mouse development** 4  
Petra Hajkova  
*Imperial College London, United Kingdom*
- 18:30 - 18:45 **RNAi and heterochromatin in quiescence** 5  
Mo Motamedi  
*MGH Cancer Center and Harvard Medical School, United States of America*

EMBO Conference: Chromatin and Epigenetics

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|---------------|--|---|
| 18:45 - 19:00 | <b>Polymer physics predicts the effects of structural variants on chromatin architecture</b> | 6 |
|               | Mario Nicodemi<br><i>Università di Napoli "Federico II", Italy</i>                           |   |
| 19:00 - 19:25 | <b>Genome-wide analysis of protein-DNA interactions</b>                                      | 7 |
|               | Jussi Taipale<br><i>Karolinska Institutet, Sweden</i>  |   |
| 19:25 - 21:00 | <b>Welcome reception with light refreshments &amp; Poster preview</b>                        |   |
|               | ATC Foyer and Helices  |   |

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**Thursday 04 May 2017**


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09:00 - 12:10	<b>Session 2: Developmental Epigenetics</b> Chairs: Cigall Kadoch and Jussi Taipale ATC Auditorium	
09:00 - 09:25	<b>Hox genes regulation during vertebrate development</b> Denis Duboule <i>EPFL, Switzerland</i>	8
09:25 - 09:40	<b>Epigenetic regulation of social behavior in ants</b> Roberto Bonasio <i>University of Pennsylvania, United States of America</i>	9
09:40 - 09:55	<b>Single cell analysis of chromatin accessibility during mouse forebrain development</b> Sebastian Preissl <i>Ludwig Institute for Cancer Research, United States of America</i>	10
09:55 - 10:20	<b>Transcriptional dynamics in living Drosophila embryos</b> Michael Levine <i>Princeton University, United States of America</i>	11
10:20 - 10:50	<b>Coffee break</b> ATC Foyer	
10:50 - 11:15	<b>Why the pause? Catching RNA polymerase II in vivo</b> Julia Zeitlinger <i>Stowers Institute for Medical Research, United States of America</i>	12
11:15 - 11:30	<b>Transcriptional nucleation of topological domains during early embryogenesis</b> Juan M. Vaquerizas <i>MPI for Molecular Biomedicine, Germany</i>	13
11:30 - 11:45	<b>Polycomb mediated epigenetic regulation of early development</b> Nicola Iovino <i>MPI of Immunobiology and Epigenetics, Germany</i>	14

EMBO Conference: Chromatin and Epigenetics

- 11:45 - 12:10 **On the dangers of mistaking a correlation for causation: H3K4me1 in enhancer function** 15  
Joanna Wysocka  
*Stanford University, United States of America*
- 12:10 - 13:30 **Lunch**  
ATC Foyer
- 13:30 - 15:30 **Poster session I (odd numbers)**  
ATC Helices
- 15:30 - 19:00 **Session 3: Making and breaking heterochromatin  
Chairs: Geneviève Almouzni and Kenneth S. Zaret**  
ATC Auditorium
- 15:30 - 15:55 **Protecting active chromatin from RNAi-directed epigenetic gene silencing** 16  
Marc Bühler  
*Friedrich Miescher Institute for Biomedical Research, Switzerland*
- 15:55 - 16:10 **Phase separation drives heterochromatin domain formation** 17  
Amy Strom  
*Lawrence Berkeley National Laboratory, UC Berkeley, United States of America*
- 16:10 - 16:25 **NuRD-interacting protein Zfp296 regulates genome-wide NuRD localization and differentiation of mouse embryonic stem cells** 18  
Michiel Vermeulen  
*Radboud University Nijmegen, The Netherlands*
- 16:25 - 16:40 **Single cell changes in chromatin accessibility during metazoan development** 19  
James Reddington  
*EMBL Heidelberg, Germany*

		Programme
16:40 - 16:55	<b>A novel approach to interrogate the genome-wide distribution of oxidative DNA damage</b> Anna R. Poetsch <i>The Francis Crick Institute, United Kingdom</i>	20
16:55 - 17:35	<b>Coffee break &amp; Meet the speakers</b> ATC Foyer	
17:35 - 18:00	<b>Establishing and maintaining epigenetic memories</b> Danesh Moazed <i>Harvard Medical School, United States of America</i>	21
18:00 - 19:00	<b>Keynote lecture:</b>  <b>Imaging the 3D organization of the genome and transcriptome in single cells</b> Xiaowei Zhuang <i>HHMI, Harvard University, United States of America</i>	22
19:00 - 19:15	<b>Apéritif</b> ATC Foyer	
19:15 - 21:00	<b>Dinner</b> ATC Canteen	
21:00 - 22:30	<b>After-dinner drinks</b> ATC Rooftop Lounge	

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Friday 05 May 2017

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09:00 - 12:10	<b>Session 4: Histone modifications, RNA and metabolism</b> Chairs: L. Stirling Churchman and Patrick Cramer ATC Auditorium	
09:00 - 09:25	<b>Mammalian SWI/SNF (BAF) complex structure and function in human cancer</b> Cigall Kadoch <i>Dana-Farber Cancer Institute &amp; Harvard Medical School, United States of America</i>	26
09:25 - 09:40	<b>Regulation of H2B Ubiquitination by Histone Variants and Posttranslational Modifications</b> Felix Wojcik <i>Princeton University, United States of America</i>	24
09:40 - 09:55	<b>Structural biology of molecular recognition of histone acylation and epigenetic regulation by YEATS domain proteins</b> Yuanyuan Li <i>Tsinghua University, China</i>	25
09:55 - 10:20	<b>Shaping chromatin in the nucleus, the bricks and the architects</b> Geneviève Almouzni <i>Institut Curie/CNRS, France</i>	23
10:20 - 10:50	<b>Coffee break</b> ATC Foyer	
10:50 - 11:15	<b>Epigenetic regulation by histone acetylation</b> Asifa Akhtar <i>MPI of Immunobiology and Epigenetics, Germany</i>	27
11:15 - 11:30	<b>Revealing the developmental implications of genomic imprinting using androgenetic and parthenogenetic human embryonic stem cells</b> Ido Sagi <i>The Hebrew University of Jerusalem, Israel</i>	28

11:30 - 11:45	<b>FACT is a reprogramming barrier in <i>C. elegans</i> and human cells</b>	29
	Baris Tursun <i>Max Delbrück Center for Molecular Medicine, Germany</i>	
11:45 - 12:10	<b>Does decoying of microRNAs involve few or many RNAs</b>	30
	Chris Ponting <i>University of Edinburgh &amp; The Wellcome Trust Sanger Institute, United Kingdom</i>	
12:10 - 13:30	<b>Lunch</b> ATC Foyer	
13:30 - 15:30	<b>Poster session II (even numbers)</b> ATC Helices	
15:30 - 18:35	<b>Session 5: Transcriptional and posttranscriptional regulation</b> <b>Chairs: Xiaowei Zhuang and Dirk Schübeler</b> ATC Auditorium	
15:30 - 15:55	<b>RNA polymerase II pausing controls transcription initiation</b>	31
	Patrick Cramer <i>MPI for Biophysical Chemistry, Germany</i>	
15:55 - 16:10	<b>Evolutionary and functional analysis of human transcription start sites</b>	32
	Cai Li <i>The Francis Crick Institute, United Kingdom</i>	
16:10 - 16:25	<b>Gene regulatory elements driving the adaptive divergence of natural populations</b>	33
	Stanley Neufeld <i>Friedrich Miescher Laboratory of the Max Planck Society, Germany</i>	
16:25 - 16:40	<b>Chromatin marks are responsible for maintenance but not initiation of transcription</b>	34
	Silvia Pérez-Lluch <i>Center for Genomic Regulation (CRG), Spain</i>	

EMBO Conference: Chromatin and Epigenetics

- 16:40 - 17:05 **Long lasting trans-generational epigenetic transmission of environmental information in an animal** 35  
Ben Lehner  
*Center for Genomic Regulation (CRG), Spain*
- 17:05 - 17:45 **Coffee break & Meet the speakers**  
ATC Foyer
- 17:45 - 18:10 **Decoding transcriptional regulation in Drosophila** 36  
Alexander Stark  
*Research Institute of Molecular Pathology (IMP), Austria*
- 18:10 - 18:25 **Polycomb Repressive Complex 2 methylates Elongin A to tune transcript levels of targeted genes** 37  
Behfar Ardehali  
*MGH, United States of America*
- 18:25 - 18:35 **Poster prize announcements**  
ATC Auditorium
- 18:35 - 18:50 **Apéritif**  
ATC Foyer
- 18:50 - 20:30 **Dinner**  
ATC Cantenn
- 20:30 - 22:00 **After-dinner drinks**  
ATC Rooftop Lounge



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**Saturday 06 May 2017**


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09:00 - 12:25	<b>Session 6: Nuclear architecture</b> Chairs: Joanna Wysocka and Alexander Stark ATC Auditorium	
09:00 - 09:25	<b>Acute loss of BRD4 halts global transcription elongation</b> L. Stirling Churchman <i>Harvard Medical School, United States of America</i>	38
09:25 - 09:40	<b>The cohesin release factor WAPL restricts chromatin loop extension</b> Elzo de Wit <i>Netherlands Cancer Institute, The Netherlands</i>	39
09:40 - 09:55	<b>TADs represent a functionally but not structurally privileged scale in the hierarchical folding of chromosomes</b> Luca Giorgetti <i>Friedrich Miescher Institute for Biomedical Research, Switzerland</i>	40
09:55 - 10:10	<b>DNA damage susceptibility is regulated by genome architecture and dictates cancer mutagenesis</b> Ashby Morrison <i>Stanford University, United States of America</i>	41
10:10 - 10:35	<b>To be presented onsite</b> Peter Fraser <i>Babraham Institute, United Kingdom</i>	42
10:35 - 11:05	<b>Coffee break</b> ATC Foyer	
11:05 - 11:20	<b>Poster prize short talk 1</b> ATC Auditorium	
11:20 - 11:35	<b>Poster prize short talk 2</b> ATC Auditorium	

EMBO Conference: Chromatin and Epigenetics

11:35 - 12:00	<b>Histone H3 Lysine 4 methyltransferases MLL3 and MLL4 Modulate Long-range Chromatin Interactions at Enhancers</b>	43
	Bing Ren <i>University of California, San Diego, School of Medicine, United States of America</i>	
12:00 - 12:25	<b>Mechanisms of heterochromatin assembly and function</b>	47
	Geeta Narlikar <i>University of California, San Francisco, United States of America</i>	
12:25 - 14:10	<b>Lunch</b> ATC Foyer	
14:10 - 18:00	<b>Session 7: Remodelling chromatin Chairs: Asifa Akhtar and Ben Lehner</b> ATC Auditorium	
14:10 - 14:35	<b>Structural studies of nucleosome remodelers in transcription</b>	44
	Andres Leschziner <i>University of California, San Diego, United States of America</i>	
14:35 - 14:50	<b>Remodeler-specified nucleosome positioning in yeast as studied by genome-wide in vitro reconstitution</b>	45
	Philipp Korber <i>LMU Munich, Germany</i>	
14:50 - 15:05	<b>Modulation of CHD4/Mi-2 nucleosome remodeling activity by protein-protein interaction and cancer-derived point mutations</b>	46
	Alexander Brehm <i>IMT, Philipps University Marburg, Germany</i>	
15:05 - 15:40	<b>Coffee break &amp; Meet the speakers</b> ATC Foyer	
15:40 - 16:05	<b>Elucidating combinatorial chromatin states</b>	48
	Nir Friedman <i>The Hebrew University of Jerusalem, Israel</i>	

16:05 - 16:20	<b>Shaping the transcriptional landscape through FACT</b> Peter Tessarz <i>MPI for Biology of Ageing, Germany</i>	49
16:20 - 16:35	<b>A Fully Recombinant Approach to Dissect INO80 Chromatin Remodelling in a Genome Wide Manner</b> Sebastian Eustermann <i>Gene Center, LMU Munich, Germany</i>	50
16:35 - 16:50	<b>Coffee break</b> ATC Foyer	
16:50 - 17:50	<b>Keynote lecture:</b> <b>Epigenetics and Rett syndrome</b> Adrian Bird <i>The University of Edinburgh, United Kingdom</i>	51
17:50 - 18:00	<b>Closing remarks</b> ATC Auditorium	
18:00 - 18:15	<b>Apéritif</b> ATC Foyer	
18:15 - 21:00	<b>Banquet Dinner or BBQ (depending on weather)</b> ATC Canteen or Terrace	
21:00 - 00:00	<b>Conference Party with DJ</b> ATC Foyer or Terrace	

Poster removal (Please remember to collect your poster. Posters which have not been collected will be disposed of after the meeting.)

Feedback Questionnaire - Check your inbox when the meeting ends! You will find an email with the link to the online feedback questionnaire. Please take time to complete it!