

THURSDAY, 20 OCTOBER

Welcome Address

13:00 - 13:15 René Ketting IMB, Mainz, DE

Keynote Lecture

Chair: René Ketting

13:15 - 14:00 Elaine Fuchs The Rockefeller University, New York, USA *Epigenetics in stem cells and cancers*

Session 1: Embryogenesis - I

Chair: René Ketting

14:00 - 14:30 Edith Heard Institut Curie, Paris, FR *The structural and functional dynamics of the inactive X chromosome*

14:30 - 15:00 Susan Strome University of California, Santa Cruz, USA *Paternal epigenetic contributions to germline development in C. elegans*

15:00 - 15:15 Melanie Eckersley-Maslin Babraham Institute, Cambridge, UK *MERVL/Zscan4 network activation results in transient genome-wide DNA demethylation*

15:15 - 15:45 *Coffee Break*

15:45 - 16:15 Ben Lehner CRG, Barcelona, ES *Transgenerational epigenetic memory and forgetting in C. elegans*

16:15 - 16:45 Maxim Greenberg Institut Curie, Paris, FR *Transient transcription in the early embryo sets an epigenetic state that programs post-natal growth*

16:45 - 17:15 Antonio Giraldez Yale University School of Medicine, New Haven, USA *The hidden code behind the genetic code: Codon optimality regulates mRNA translation and stability during the maternal to zygotic transition*

17:15 - 17:30 Shai Joseph MPI of Molecular Cell Biology and Genetics, Dresden, DE *Competition between histone and transcription factor binding regulates zebrafish genome activation*

17:30 - 20:30 *Welcome Reception & Poster Session*

FRIDAY, 21 OCTOBER

Session 2: Plasticity and Differentiation

Chair: Bradley Cairns

09:00 - 09:30	Rudolf Jaenisch	Whitehead Institute, Cambridge, USA	<i>Analyzing and editing DNA methylation in the mammalian genome</i>
09:30 - 10:00	Todd Macfarlan	NIH/NICHD, Bethesda, USA	<i>KRAB-ZFPs: Genome defenders and drivers of mammalian evolution</i>
10:00 - 10:30	Didier Trono	EPFL, Lausanne, CH	<i>Mobile genetic elements, polydactyl proteins and human-specific gene regulatory networks</i>
10:30 - 10:45	Abhijit Das	Gurdon Institute, Cambridge, UK	<i>Epigenetic mechanisms of blocking dedifferentiation of neurons into neural stem cells</i>
10:45 - 11:15	<i>Coffee Break</i>		
11:15 - 11:45	Rudolf Grosschedl	MPI Immunology and Epigenetics, Freiburg, DE	<i>Transcriptional networks in normal and malignant B lymphopoiesis</i>
11:45 - 12:15	Vijay Tiwari	IMB, Mainz, DE	<i>Discovering novel epigenetic regulators during neurogenesis</i>
12:15 - 12:45	Gidi Rechavi	Sheba Cancer Research Center, Tel Aviv, IL	<i>Developmental role of epitranscriptomic regulation</i>
12:45 - 13:00	Weijun Feng	DKFZ, Heidelberg, DE	<i>The chromatin remodeller Chd7 is essential for mammalian brain development</i>
13:00 - 14:30	<i>Lunch & Poster Session</i>		
14:30 - 21:00	<i>Excursion to the Eberbach Monastery with wine tasting and dinner</i>		

SATURDAY, 22 OCTOBER

Keynote Lecture

Chair: Jean-Yves Roignant

09:00 - 09:45	Magdalena Zernicka-Goetz	University of Cambridge, UK	<i>Partnership between potency and architecture: Laying the grounds for mammalian embryo development</i>
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Session 3: Embryogenesis - II

Chair: Jean-Yves Roignant

09:45 - 10:15	Maria-Elena Torres-Padilla	IGBMC, Strasbourg, FR	<i>Heterochromatin remodeling is essential for reprogramming at fertilization.</i>
10:15 - 10:45	Denis Duboule	EPFL, Lausanne, CH	<i>The control of long-range gene regulation at the HoxD locus</i>
10:45 - 11:00	Yad Ghavi-Helm	EMBL, Heidelberg, DE	<i>Impact of structural rearrangements on transcription regulation in 3D during embryogenesis</i>

11:00 - 11:30 *Coffee Break*

11:30 - 12:00	Julie Ahringer	Gurdon Institute, Cambridge, UK	<i>Genome architecture and chromatin regulation in C. elegans</i>
12:00 - 12:30	Paolo Sassone-Corsi	University of California, Irvine, USA	<i>Common threads: Metabolism, epigenetics and the circadian clock</i>
12:30 - 12:45	Natalia Soshnikova	IMB, Mainz, DE	<i>Dynamic changes in chromatin states accompany specification of the adult intestinal stem cells</i>

12:45 - 14:15 *Lunch & Poster Session*

Session 4: Germ Cells and Reproduction

Chair: Natalia Soshnikova

14:15 - 14:45	Antoine Peters	FMI, Basel, CH	<i>Chromatin dynamics in mammalian reproduction</i>
14:45 - 15:15	Azim Surani	Gurdon Institute, Cambridge, UK	<i>Origin and epigenetic programming of human primordial germ cells</i>
15:15 - 15:30	Saulius Klimasauskas	Vilnius University, LT	<i>High resolution DNA epigenome profiling using Tethered-Oligonucleotide-Primed sequencing (TOP-seq)</i>

15:30 - 16:00 *Coffee Break*

16:00 - 16:30	Matt Lorincz	University of British Columbia, Vancouver, CA	<i>Impact of LTR retrotransposons on the transcriptome and methylome in the mouse germline & beyond</i>
16:30 - 17:00	Bradley Cairns	Huntsman Cancer Institute, Salt Lake City, USA	<i>Central roles for murine DUX and human DUX4 in activating cleavage stage genes and retrotransposons</i>
17:00 - 17:15	Jean-Yves Roignant	IMB, Mainz, DE	<i>m⁶A modulates neuronal functions and sex determination in Drosophila</i>
17:15 - 17:30	Courtney Hanna	Babraham Institute, Cambridge, UK	<i>Mapping the chromatin landscape in the oocyte and early embryo</i>

Closing Remarks

17:30 - 17:45	Jean-Yves Roignant	IMB, Mainz, DE	
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