

Berlin Summer School 2013
Epigenetics
Monday 10 - Wednesday 12 June



Session I Jörn Walter, Department of Epigenetics/Genetics,
Saarland University Saarbrücken

Mechanisms of epigenetic gene regulation: From epigenomic maps to function

Session II Renato Paro, Department of Biosystems Science and
Engineering, ETH Zürich

Epigenetic memory in regeneration and cancer of *Drosophila* imaginal discs

Session III Ulf Ørom, Max Planck Institute for Molecular Genetics
Berlin

Enhancer activity and chromatin conformation regulated by long non-coding RNAs

Session IV Christine Sers, Institute of Pathology,
Tumorsystemsbiology, Charité Berlin

Epigenetic regulation of signal transduction: The impact of DNA methylation on oncogenic signaling in tumors and vice versa

Session V Ana Pombo, Berlin Institute for Medical Systems
Biology, MDC Berlin-Buch

An unexpected interplay between Polycomb repression and RNA polymerase II in mouse ES cells

Session VI Wei Chen, Berlin Institute for Medical Systems Biology,
MDC Berlin-Buch

Monoallelic gene expression

Session VII Ho-Ryun Chung, Max Planck Institute for Molecular
Genetics Berlin

Chromatin signaling during transcription initiation

Session VIII Uwe Ohler, Berlin Institute for Medical Systems
Biology, MDC Berlin-Buch

Combining chromatin and sequence information to identify functional regulatory elements

Session IX Hanspeter Herzel, Institute for Theoretical Biology,
Charité and Humboldt University Berlin
DNA periodicities and supercoiling

Guided tour Museum für Naturkunde Berlin, Invalidenstraße 43,
10115 Berlin

Developments – 60 Years Discovery of the Structure of DNA

Session X Robert Zinzen, Berlin Institute for Medical Systems
Biology, MDC Berlin-Buch
Tissue specific gene regulation in early development

Session XI Leonie Ringrose, IMBA Vienna
**Molecular systems biology of epigenetic regulation by polycomb
and trithorax group proteins**

Session XII Esteban Mazzoni, Department of Biology, New York
University
**Transcriptional and epigenetic changes during motor neuron
differentiation**

Session XIII Sevinc Ercan, Department of Biology, New York
University
**Chromosomal recruitment and spreading of the condensin
complexes in *C. elegans***

Session XIV Baris Tursun, Berlin Institute for Medical Systems
Biology, MDC Berlin-Buch
The role of chromatin regulation in cell fate reprogramming