



Programme
59. Mosbacher Kolloquium 2008
"Epigenetics"

Wednesday March 26, 2008

20:30 **Welcome**
in the town hall

Thursday March 27, 2008

8.30 Opening remarks (Alfred Wittinghofer; Jörn Walter)

8.45 - 9.30 Introductory Keynote Lecture,
Peter Becker, München, D
Chromatin dynamics

Morning Session: Establishment of epigenomic marks I

"Histone modifications"

Chair Persons: Mario Noyer-Weidner (before coffee break); Ingrid Grummt (after coffee break)

9.30 - 10.05 **Bryan Turner**, Birmingham, UK
The many roles of histone modifications: signals, codes and epiphenomena

10.05 - 10.40 **Thomas Jenuwein**, Wien, A
Epigenetic Control by Histone Methylation

10.40 - 11.00 *Coffee Break*

11.00 - 11.35 **Wolfgang Fischle**, Göttingen, D
The interplay of histone modifications and genome function:
Molecular analysis of chromatin domains

11.35 - 12.10 **Robert Schneider**, Freiburg, D
Histone Modifications - new sites,
new players and new functions

12.10 - 13.00 *Lunch Break*

13.00 – 13.45 **Poster Session 1**

Afternoon Session: Establishment of epigenomic marks II

„DNA-Methylation“

Chair Person: Thomas Trautner

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| 13.45 - 14.20 | Timothy Bestor , New York, USA
Regulation of de novo methylation in mammals |
| 14.20 – 14.55 | Albert Jeltsch , Bremen, D
Structure and mechanism of mammalian DNA methyltransferases |
| 14.55 - 15.30 | Embo Young Investigator Lecture:
Francois Fuks , Brussels, B
Mechanisms of DNA methylation in mammals |
| 15.30 - 16.00 | <i>Coffee Break</i> |
| 16.00 - 16.45 | Otto Warburg-Medal
(sponsored by QIAGEN) |
| 17.00 - 18.30 | General Meeting of the GBM / Mitgliederversammlung |
| 19.15 - 20.00 | Feodor Lynen Lecture
Rudolf Jaenisch , Cambridge, USA
Stem cells, pluripotency and epigenetic reprogramming |

Friday, March 28

Morning Session: Molecular interpretation (reading) of epigenetic marks

“Histone variants, MBDs and the transcriptional machinery”

Chair Persons: Thomas Jenuwein (before coffee break); Renato Paro (after coffee break)

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| 8.30 - 9.05 | Stephen Henikoff , USA
Histone variant dynamics and epigenetics |
| 9.05 - 9.40 | Irina Stancheva , Edinburgh, UK |

Recognition of methylated DNA by MBD family proteins

9.40 - 10.10 *Coffee Break*

“Developmental control by Polycomb/Trithorax complexes”

10.10 - 10.45 **Giacomo Cavalli**, Montpellier, F
Polycomb proteins in fly development

10.45 - 11.20 **Juerg Müller**, Heidelberg, D
Transcriptional regulation by the Polycomb/trithorax system

11.20 - 11.55 **Frank Sauer**, Riverside, USA
Role of non-coding RNA in cell differentiation

12.00 - 13.00 *Lunch Break*

13.00 - 14.30 **Poster Session 2**

Afternoon Session: Control of chromatin structure

“Non-coding RNAs, RNA-interference and epigenetic control”

Chair Person: *Timothy Bestor (before coffee); Bryan Turner (after coffee break)*

14.30 - 15.05 **Ingrid Grummt**, Heidelberg, D
Noncoding RNA in sense and antisense orientation mediates heterochromatin formation and silencing of rRNA genes

15.05 - 15.40 **Mikel Zaratiegui**, CSHL, USA
RNA interference guides histone modification during the S phase of chromosomal replication

15.40 - 16.15 **Edith Heard**, Paris, F
RNA actors in X-chromosome inactivation

16.15 - 16.45 *Coffee Break*

16.45 - 17.15 **BayerSchering Pharma Thesis Prize:**
Award Lecture

“Nuclear structure and dynamics”

17.15 - 17.50 **Peter Fraser**, Cambridge, UK
Nuclear organization and coordinate gene expression

17.50 - 18.25 **Thomas Cremer**, München, D

Evolutionary conserved and cell type specific features of higher order chromatin arrangements

Saturday, March 29

Chair Persons: Alfred Wittinghofer (until coffee break), Edith Heard (after coffee break)

Industrial Symposium

8.30 – 9.00 **Gerald Schock**, QIAGEN GmbH, Hilden
Reliable Methylation Analysis for Epigenetic Research: New Technologies and Critical Success Factors

Morning session: Epigenomic reprogramming and disease

“Epigenomics and cancer”

9.00 - 9.35 **Frank Lyko**, Heidelberg, D
Targeting epigenetic mutations in cancer

9.35 - 10.10 **Peter Jones**, Los Angeles, USA
Epigenetic Therapies

10.10 - 10.40 *Coffee Break*

“Control of pluripotency and development”

10.40 - 11.15 **Wolf Reik**, Cambridge, UK
Mechanisms of imprinting and epigenetic reprogramming in mammalian development

11.15 - 11.50 **Hans Schöler**, Münster, D
Induction of Pluripotency in Somatic and Germline Cells

11.50 - 12.25 **Azim Surani**, Cambridge, UK
Genetic and epigenetic regulators of the germ line and pluripotency

12.30 **Closing remarks**