

2014 IMB Conference Programme Nuclear RNA in Gene Regulation & Chromatin Structure

Thursday, 9 October 2014

Welcome Address

17:45 - 18:00 René Ketting IMB Mainz

Keynote Lecture

Chair: René Ketting

18:00 - 18:45 Steven E. Jacobsen UCLA RNA directed DNA methylation

19:00 - 21:00 *Welcome Reception & Poster Session at IMB*

Friday, 10 October 2014

Session 1: *Small RNA pathways and chromatin*

Chair: René Ketting

09:00 - 09:30 William E. Theurkauf University of Building a germline genome defense system
Massachusetts

09:30 - 10:00 Marc Bühler FMI Basel Achieving epigenetic robustness through ncRNA- and protein-based feedback motifs

10:00 - 10:30 Todd Blevins Indiana University Rescue of lethality and genetic hybrid incompatibility
Bloomington via reversal of epiallele silencing

10:30 - 10:45 Fabio Mohn IMBA Vienna The Rhino-Deadlock-Cutoff complex licenses noncanonical transcription of dual-strand piRNA clusters in *Drosophila*

10:45 - 11:15 *Coffee Break*

11:15 - 11:45 Eric Miska Gurdon Institute Transgenerational epigenetic inheritance and RNAe

11:45 - 12:15 Kazufumi Mochizuki IMBA Vienna Two types of siRNAs regulate programmed DNA elimination in *Tetrahymena*

12:15 - 12:30 Josep Duato Botam University of Oxford Gene expression regulation through DICER1-mediated transcriptional gene silencing (TGS) in normal and breast cancer cells

12:30 - 14:30 *Lunch & Poster Session*

Session 2: *Splicing and Chromatin*

Chair: Falk Butter

14:30 - 15:00 Benjamin Blencowe University of Toronto Alternative splicing regulatory networks in development and disease

15:00 - 15:30 Alberto R Kornblihtt University of Buenos Aires Chromatin, Pol II elongation and alternative splicing

15:30 - 15:45 Markus Schüler MDC Berlin The investigation of 3D genome architecture using the prediction of trans-splicing events

15:45 - 16:15 *Coffee Break*

16:15 - 16:45 Jean-Yves Roignant IMB Mainz The exon junction complex facilitates exon definition by modulation of transcription elongation

16:45 - 17:15 Christian Muchardt Pasteur Institute A nuclear argonaute complex containing HP1 γ uses ncRNAs to regulate intragenic chromatin structure and alternative splicing

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17:15 – 17:30 Julian König IMB Mainz Intergenic Alu exonisation facilitated the evolution of tissue-specific transcript ends

18:00 *Conference Dinner*

Saturday, 11 October 2014

Keynote Lecture

Chair: Jean-Yves Roignant

09:00 - 09:45 Ruth Lehmann Skirball Institute, NYU School of Medicine mRNA regulation in the germ line of *Drosophila melanogaster*

Session 3: *Non-coding RNA in dosage compensation and telomere biology*

Chair: Jean-Yves Roignant

09:45 - 10:15 Joost Gribnau EMC Rotterdam Activation of X inactivation

10:15 - 10:45 Lisa Hall University of Massachusetts Chromosome regulation and architecture: Implications for the repeat genome

10:45 - 11:15 Peter Becker LMU Munich Role of roX RNA in biogenesis and targeting of the *Drosophila* dosage compensation machinery

11:15 - 11:45 *Coffee Break*

11:45 - 12:00 Falk Butter IMB Mainz Quantitative mass spectrometry to identify lncRNA interacting proteins: TERRA interactome

12:00 - 12:30 Brian Luke University of Heidelberg Telomeric non-coding RNA (TERRA) regulates telomere length dynamics at critically short telomeres and affects rates of senescence

12:30 - 13:00 Michael G. Rosenfeld UC San Diego Enhancer Codes and Regulated Transcriptional Programs

13:00 - 20:45 *Boxed Lunch and Excursion*

Sunday, 12 October 2014

Session 4: *lncRNAs*

Chair: Ruth Lehmann

09:15 - 09:45 Ingrid Grummt DKFZ Heidelberg DNA: RNA triplex-mediated targeting of chromatin modifiers: A key to epigenetic regulation

09:45 - 10:15 Bernhard Herrmann MPI Berlin Elucidating the role of the lncRNA Fendrr in mouse embryogenesis

10:15 - 10:30 Manvendra Singh MDC Berlin Cross-talks between human endogenous retroviruses derived lncRNA and host factors: Re-wiring cell-type-specific transcriptional networks in humans

10:30 - 11:00 *Coffee Break*

11:00 - 11:30 Kannanganattu V. Prasanth University of Illinois Role of long noncoding RNAs in cell cycle progression and cancer

11:30 - 12:00 Renato Paro ETH Zurich Profiling chromatin-associated RNA-protein interactions by PAR-CLIP

Closing Remarks

12:00 - 12:15 René Ketting IMB Mainz

12:30 *Departure*

IMB is grateful to the following for their support
of the 2014 IMB Conference

