



Microsymposium on small RNAs

IMBA, Vienna, May 4th - 6th 2015

Thanks to the generosity of these sponsors, the Microsymposium is a free-attendance meeting



Ameres, Cochella, Brennecke & Martinez Laboratories

10th MICROSYMPOSIUM_{on} SMALL RNAs

Monday May 4th

09.00 – 10.30 Registration and Poster Setup/Snacks

10.30 – 10.40 Welcome and Introduction

SESSION 1 MicroRNAs

10.40 – 11.20 **Victor Ambros** – MicroRNA pathways and developmental robustness in *C. elegans*

11.20 – 11.40 **Jonathan Shaffer (Qiagen)** – Development of a circulating miRNA biomarker signature for acetaminophen toxicity using a three phase, systematic approach

11.40 – 12.20 **David Bartel** – MicroRNAs

12.20 – 14.00 LUNCH

PhD Workshop I

14.00 – 14.20 **Semih Cetin** (Pfeffer Lab) – Target-induced microRNA degradation by DIS3L2 and TUT1

14.20 – 14.40 **Madalena Reimão-Pinto** (Ameres Lab) – Uridylation of hairpin RNAs by Tailor confines the emergence of miRNAs in *Drosophila*

14.40 – 15.00 **Thomas Bleazard** (Griffith-Jones Lab) – Bias in miRNA functional enrichment analysis

15.00 – 15.20 **Wei Wang** (Zamore Lab) – Argonaute3 slicing triggers production of phased primary piRNAs that direct transcriptional silencing by Piwi

15.20 – 15.40 **Dominik Handler** (Brennecke Lab) – piRNA-guided slicing specifies transcripts for phased and directional piRNA biogenesis

15.40 – 16.30 Coffee Break

Session 2 Structure and Mechanism

16.30 – 17.10	Elisa Izaurre – Towards a molecular understanding of miRNA-mediated gene silencing
17.10 – 17.50	Narry Kim – Functional anatomy of Microprocessor
17.50 – 18.30	Dinshaw Patel – Structure-Function studies of Riboswitches and Ribozymes
<u>19.00</u>	<u>Dinner</u>



Tuesday May 5th

Session 3: Small RNAs and Chromatin

- 09.00 – 09.40 **Robin Allshire** – Epigenetic transmission: Establishment and inheritance of specialized chromatin
- 09.40 – 10.00 **Tina Damgaard (Exiqon)**– Exosomal microRNAs in urine - promising biomarkers for disease
- 10.00 – 10.40 **Craig Pikaard** – siRNA precursors transcribed by RNA polymerase IV in *Arabidopsis*

10.40 – 11.10 Coffee Break

- 11.10 – 11.50 **David Baulcombe** – Heritable variation triggered by small RNAs in Plants
- 11.50 – 12.30 **Kazufumi Mochizuki** – Small RNA-mediated genome-wide trans-recognition network in *Tetrahymena* DNA elimination

12.30 – 13.30 Lunch

Session 4: Small RNAs and Host Defense

- 13.30 – 14.10 **Alexei Aravin** – The assembly of the ping-pong piRNA processing complex
- 14.10 – 14.50 **Mikiko Siomi** – Maelstrom, an endonuclease necessary for both initiation and effector phases in the piRNA pathway

14.50 – 15.20 Coffee Break

- 15.20 – 16.00 **Julius Brennecke** – piRNA Biogenesis
- 16.00 – 16.40 **Phillip Zamore** – When Good Proteins happen to Bad Nucleic Acids

16.45 - Tour and Dinner for academic speakers

Bar for PhD Workshop speakers

Wednesday May 6th

09.30 – 10.00 Coffee

Session 5: Mechanism II

10.00 – 10.40 **Yukihide Tomari** – Biochemical and biophysical dissection of small RNA pathways

PhD Workshop II

10.40 – 11.00 **Andrea Barghetti** (Olsen Lab) – Protein farnesylation is required for membrane-associated Ago1 silencing activity

11.00 – 11.20 **Katarzyna Kowalik** (Bühler Lab) – The Paf1 complex represses small RNA-mediated epigenetic silencing

11.20 – 11.40 **Bruno Albuquerque** (Ketting Lab) – piRNAs are essential for rebooting endo-siRNAs in *C. elegans*

11.40 – 12.00 **Pauline Marie** (Ronsseray Lab) – piRNA-mediated repression during female germline development in *Drosophila*

12.00 – 14.30 Lunch and Poster Viewing

Session 6: Small RNA Biology

14.30 – 15.10 **Eric Lai** – MicroRNA biology: Lessons from *Drosophila*

15.10 – 15.50 **Markus Stoffel** – The microRNA-200 family regulates pancreatic beta cell survival in type 2 diabetes

15.50 – 16.30 **Eric Miska** – Non-coding RNA in innate immunity

16.30 – 17.00 **Johannes Zuber** – Exploring normal and malignant cell fate programs using advanced shRNA technology

17.00 – 17.30 **PhD Workshop Award and closing of the meeting**

17.30 - Happy hour and light bites

Note

Note

The 10th MICROSYMPOSIUM on SMALL RNAs

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