

4th MICROSYMPOSIUM on SMALL RNAs

IMBA, Vienna, May 18th - 20th 2009





HYBRIGENICS



services



4th MICROSYMPOSIUM_{on} SMALL RNAs Program

Monday 18th:

10.00 – 11.00 SNACKS

11.00 – 11.20 Setup and Welcome

“miRNAs & cancer”

- 11.20 – 11.50 **Sohail Tavazoie:** “Discovery and characterization of human metastasis suppressor microRNAs”
- 11.50 – 12.10 **Hazel Pinheiro – Exiqon:** “Discovery of microRNA biomarkers for cancer using LNA-based technologies”
- 12.10 – 12.40 **Reuven Agami:** “Cancerous microRNAs and regulatory RNA binding proteins”
- 12.40 – 13.00 **Andreas Keller – Febit:** “microRNAs and cancer -lost in the flood of information”
- 13.00 – 13.30 **Anders Lund:** “p53-independent up-regulation of miR-34a during oncogene-induced senescence represses MYC”

13.30 – 15.00 LUNCH

- 15.00 – 16.00 **Keynote Lecture: Witold Filipowicz:** “MicroRNA regulation in mammalian cells: still few things to learn”
- 16.00 – 16.30 **Isabel Arnold – EMBO Journal:** “Shedding light into the black box - the editorial process at The EMBO Journal”
- 16.30 – 17.00 **Elisa Izaurralde:** “The GW182 protein family in animal cells: new insights into domains required for miRNA mediated gene silencing”

17.00 – 17.30 COFFEE BREAK

“Technology & Therapeutics - 1”

- 17.30 – 18.00 **Sakari Kauppinen – Santaris Pharma:** “Targeting of microRNAs for therapeutics”
- 18.00 – 18.30 **Stephanie Urschel – ThermoFisher Scientific-Dharmacon:** “Design of Stabilized Mimics”
- 18.30 – 19.30 “PhD Workshop – 1”
Megha Ghildiyal – Phil Zamore’s Laboratory: “microRNA* strands act as guides in the AGO2-RNAi pathway”
Davide Cacchiarelli – Irene Bozzoni’s Laboratory: “Coupled RNA processing and transcription of intergenic primary miRNAs”
Raghu Chivukula – Joshua Mendell’s Laboratory: “Therapeutic microRNA replacement in a murine liver cancer model”

19.30 –----- OPEN DINNER AND POSTER SESSION

Tuesday 19th:

“New European Junior Group Leaders – 1”

- 09.00 – 09.30 **Alena Shkumatava:** “Systematic analysis of miRNA target expression during zebrafish development”
- 09.30 – 09.50 **Roman Kurek – Panomics-Affimetrix:** “Visualization of single RNA molecules in cells and tissues”
- 09.50 – 10.20 **Hervé Seitz:** “Rethinking the biological function of small RNAs in animals”

10.20 – 11.00 COFFEE BREAK

“Bioinformatics of small RNAs”

- 11.00 – 11.30 **Artemis Hatzigeorgiou:** “An efficient machine learning approach for microRNA target prediction using high-throughput data”
- 11.30 – 12.00 **Mihaela Zavolan:** “The what, where and how of targeting by miRNAs: a computational analysis”
- 12.00 – 12.30 **Ravi Sachidanandam:** “Mechanisms through coarse-grained analyses”
- 12.30 – 12.50 **Eugene Berezikov – InterNA Genomics:** “miR-Intess software for small RNA discovery and expression profiling”

12.50 – 14.00 LUNCH

14.00 – 15.00 “PhD Workshop – 2”

- Matyas Flemr** – Petr Svoboda’s Laboratory: “Conversion of P-bodies into mRNA storage domains in mouse oocytes”
- Colin Malone** – Greg Hannon’s Laboratory: “An epigenetic role for maternally inherited piRNAs in transposon silencing”
- Kai Papenfort** – Jorg Vogel’s Laboratory: “Functions of small non-coding RNAs in Salmonella”
- 15.00 – 15.20 **George Tzertzinis – New England Biolabs:** “New tools for RNA research from NEB”
- 15.20 – 15.50 **Hugo Lujan:** “Antigenic variation in Giardia is regulated by RNAi”

15.50 – 16.20 COFFEE BREAK

“Small RNAs in C. elegans”

- 16.20 – 16.50 **Alla Grishok:** “Targets of endogenous RNAi processes in C. elegans”
- 16.50 – 17.20 **Helge Grosshans:** “Not so stable after all – active and regulated turnover of miRNAs”

17.30 – ----- DINNER DOWNTOWN: MAIN SPEAKERS AND WORKSHOP STUDENTS

Wednesday 20th:

“The Argonaute world”

- 09.30 – 10.00 **Zissimos Mourelatos:** “Piwi proteins and piRNAs”
10.00 – 10.30 **Stefan Ameres:** “Small RNA-target RNA interactions determine the stability of small silencing RNAs in *Drosophila*”

10.30 – 11.00 COFFEE BREAK

“Technology & Therapeutics - 2”

- 11.00 – 11.30 **Eva van Rooij – miRagen Therapeutics:** “MicroRNAs as therapeutics in cardiovascular disease”
11.30 – 11.50 **Sarah Fredriksson – Genovis:** “Nanoparticles for combined delivery and imaging”
11.50 – 12.20 **Dmitry Samarsky – RXi:** “Development of novel RNAi therapeutic programs”
12.20 – 12.40 **Claudia Lavoubie – Invitrogen:** “Solutions for RNAi in vivo”

12.40 – 14.00 LUNCH

14.00 – 15.40 “PhD Workshop – 3”

- Jutta Helm** – Kriton Kalantidis’ Laboratory: “The plant homologue of Enhanced RNAi 1 (ERI-1) is involved in chloroplast ribosomal RNA biogenesis”
Lucia Clemens-Daxinger – Marjori Matzke’s Laboratory: “RNA-directed DNA methylation: a small RNA-mediated epigenetic modification”
Marco Jovanovic – Michael Hengartner’s Laboratory: “A Quantitative targeted proteomics approach to identify microRNA targets in *C. elegans*”
Ute Bissels – Miltenyi: “Absolute quantification of microRNAs via a universal reference”
Svetlana Lebedeva – Nikolaus Rajewsky’s Laboratory: “Identification of targets of mRNA-binding protein HuR using high-throughput sequencing and quantitative proteomics”



15.40 – 16.00 **CJ Fitzsimons – EMBO Management courses**

16.00 – 16.30 *COFFEE BREAK*

“New European Junior Group Leaders – 2”

16.30 – 17.00 **Markus Landthaler:** “Decoding of post-transcriptional regulatory networks by small RNA sequencing”

17.00 – 17.30 **Julius Brennecke:** “The piRNA pathway: a defense system against transposon strategies”

17.30 – 18.00 *Award PhD’s best presentations and closing*

18.00 ----- *OPEN DINNER AT IMBA*



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Jutta Dammann, Jiradet Gloggnitzer, Tibor Kulcsar, Denise Langer, Evelyn Missbach, Wolfgang Racholz, Herbert Schmidt, Hannes Tkadletz, Stefan Trinker, the Cafeteria Team, the Reception Team and Javier Martinez

HIGHLIGHTS

