

4th Microsymposium on Small RNAs, May 18th -20th, 2009

IMBA, Institute of Molecular Biotechnology

Monday 18th:

10.00 – 11.00

SNACKS

11.00 – 11.20

Setup and Welcome

11.20 – 11.50

"miRNAs & cancer"

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

- 17.30 – 18.00 *“Technology & Therapeutics - 1”*
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:
“Dystrophin-dependent epigenetic reprogramming of muscle miRNA expression”
Raghu Chivukula – Joshua Mendell’s Laboratory:
“Therapeutic microRNA replacement in a murine liver cancer model”
- 19.30 ————— **OPEN DINNER AND POSTER SESSION**

Tuesday 19th:

- 09.00 – 09.30 **“New European Junior Group Leaders – 1”**
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**
- 11.00 – 11.30 **“Bioinformatics of small RNAs”**
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

16.20 – 16.50

“Small RNAs in *C. elegans*”

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:

- 09.30 – 10.00
10.00 – 10.30
- “The Argonaute world”*
Zissimos Mourelatos: “Piwi proteins and piRNAs”
Stefan Ameres: “Small RNA-target RNA interactions determine the stability of small silencing RNAs in *Drosophila*”
- 10.30 – 11.00
- COFFEE BREAK**
- 11.00 – 11.30
11.30 – 11.50
11.50 – 12.20
12.20 – 12.40
- “Technology & Therapeutics - 2”*
Eva van Rooij – miRagen Therapeutics: “MicroRNAs as therapeutics in cardiovascular disease”
Sarah Fredriksson – Genovis: “Nanoparticles for combined delivery and imaging”
Dmitry Samarsky – RXi: “Development of novel RNAi therapeutic programs”
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

16.30 – 17.00

“New European Junior Group Leaders – 2”

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