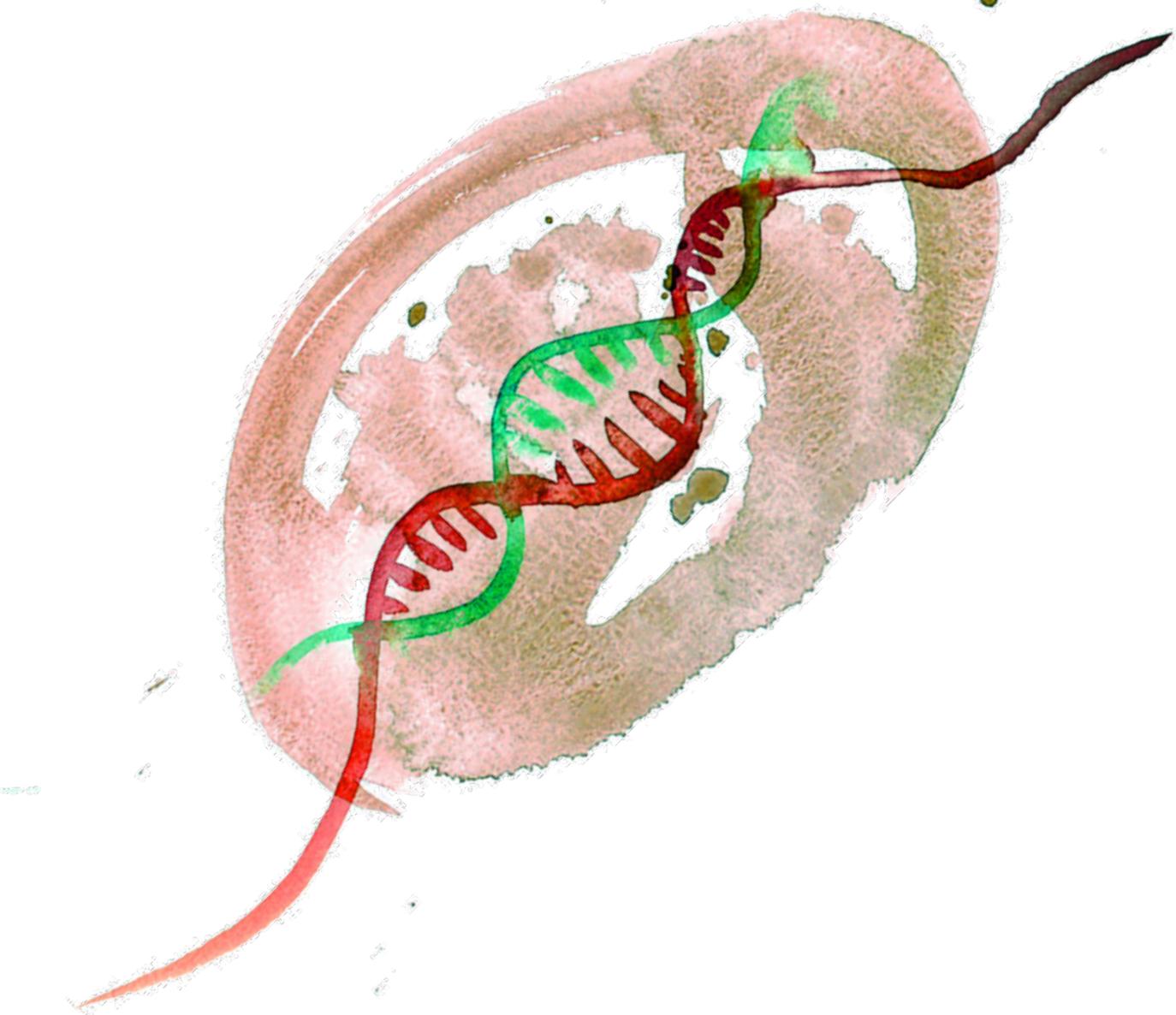


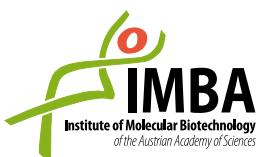
6th MICROSYMPOSIUM on SMALL RNAs

IMBA, Vienna, May 16th - 18th 2011





Solutions for Science
since 1875



6th MICROSYMPORIUM on SMALL RNAs

Monday 16th:

08.00 – 11.00 *Setup for Companies*

09.00 – 11.00 *SNACKS*

11.00 – 11.15 **Welcome & Introduction**

11.15 – 13.00 **The plant session:**

Michael Axtell: "Evolutionary perspectives on small RNA biogenesis and functions in plants"

Illumina; Florian Grädler: "Illumina RNA-Seq – actual developments"

Olivier Voinnet: "The Prion protein binds Argonaute and facilitates assembly of microRNA effector complexes"

Biogazelle; Pieter Mestdagh: "Development of an ultra-high throughput long non-coding RNA qPCR screening system"

13.00 – 14.00 *LUNCH AROUND THE LECTURE HALL*

14.00 – 15.00 **Keynote Lecture ONE;**

David Bartel: "The regulatory effects of miRNAs in mammals and the evolution of RNAi in fungi"

15.00 – 16.30 **Workshop for PhD students, ONE:**

Lena Sokol: "Successive tailing and trimming of RISC-loaded miRNA by the 3'UTR-binding protein HuR"

Svetlana Levedeba: "Transcriptome wide functional interactions of the RNA-binding protein HuR/ELAVL1"

Rachel Haurwitz: "Sequence- and structure-specific processing by Csy4, a CRISPR endonuclease"

Krzystof Chylinski: "A novel RNA maturation pathway for the production of active CRISPR crRNAs to confer bacterial immunity against invading genomes"

16.30 – 17.00 *"SMALL CAKE" COFFEE BREAK*

17.00 – 18.40

Bioinformatics goes *in vitro* and *in vivo*...

Mihaela Zavolan: "Identification of binding sites of RNA-binding proteins from *in vitro* to *in vivo*"

Exiqon; Carsten Alsbo: "Early detection of colorectal cancer from patient blood plasma using microRNA-based RT-qPCR"

Nikolaus Rajewsky: "In vivo identification of targets of RNA binding proteins"

Qiagen; Dirk Hadaschik: "Detection and profiling of circulating miRNAs in plasma and serum"

18.40 – 19.00

Talking to the Editors:

Stan Gorski; EMBO Journal: "Everything you need to know about scientific publishing"

19.00 – 20.00

DINNER AT THE IMP-CAFETERIA

20.00 – 21.00

CONCERT AT THE IMP-LECTURE HALL:

"Summer Fireworks"

by Ekaterina Frolova, Tymur Melnyk and Patrick Lechner"



Tuesday 17th:

09.00 – 10.30 The multiple functions of small RNAs, ONE:

Klaus Förstemann: "miR-277 regulates metabolism and longevity in Drosophila"

Antonio Giraldez: "The role of microRNAs in vascular development and tumor angiogenesis"

Joshua Mendell: "MicroRNAs in oncogenic signaling pathways"

10.30 – 11.00

"CROISSANT" COFFEE BREAK

11.00 – 12.00 Therapeutics and Technology, ONE:

Susanna Obad; Santaris Pharma: "Targeting microRNAs for therapeutics"

Barry Polisky; Marina Biotech Inc: "Local liposomal and oral bacterial si/shRNA delivery to tumors"

12.00 – 13.00 piRNAs on the move, ONE:

Mikiko Siomi: "Biogenesis of PIWI-interacting small RNA in insects"

Ramesh Pillai: "A new role for Piwi catalytic competence in the mammalian transposon silencing strategy"

13.00 – 14.00

LUNCH AROUND THE LECTURE HALL

14.00 – 15.00 Keynote Lecture TWO;

Thomas Tuschl: "Characterization of regulatory small RNAs and RNA-binding proteins"

15.00 – 16.30 piRNAs on the move, TWO:

Julius Brennecke: "Genetic Approaches to Dissect the piRNA Pathway in Drosophila"

Eric Miska: "Germline stress and trans-generational inheritance"

William Theurkauf: "Adaptation to transposon invasion by the piRNA pathway"

16.30 – 17.00

"SACHER TORTA" COFFEE BREAK

17.00 –

VIENNA-TOUR & DINNER FOR ACADEMY AND COMPANY SPEAKERS.

BAR-RESTAURANT FOR WORKSHOP-PhD STUDENTS.



Wednesday 18th:

09.00 – 11.00 Workshop for PhD students, TWO:

Anitha Jayaprakash: "Identification and remediation of biases in the activity of RNA-ligases in deep sequencing of small RNAs"

Mikhail Klenov: "Separation of Piwi protein functions"

Jana Nejepinska: "Long dsRNA expression in the mouse elicits RNAi in oocytes and minimal interferon response in somatic cells"

David Weinberg: "The inside-out mechanism of Dicers from budding yeasts"

Melanie Tanguy: "Regulating the regulators – cellular miRNA destabilization in virus infection"

11.00 – 11.30 "COOKIE" COFFEE BREAK

11.30 – 12.30 Therapeutics and Technology, TWO:

Stephanie Urschel; ThermoFisher Dharmacon: "Analyzing miRNA biology: workflow and tools to identify and validate miRNA gene targets"

Jost Siebler; TaconicArtemis: "Understanding the function of miRNAs in vivo"

12.30 – 15.00 LUNCH AT THE ATRIUM AND POSTER VIEWING

15.00 – 16.00 Keynote Lecture THREE;

Thijn Brummelkamp: "Haploid Genetic Screens in Human Cells"

16.00 – 18.45 The multiple function of small RNAs, TWO:

Stefan Ameres: "Mechanism and application of a small RNA decay pathway"

Gunter Meister: "Analysis of Argonaute interactions in human cells"

17.00 – 17.30 "ICE CREAM" COFFEE BREAK

Riboxx; Jacques Rohayem: "Inhibition of human rhinovirus replication in mice by highly selective small interfering RNA"

Sebastian Kadener: "Post-transcriptional regulation by miRNAs imparts robustness to circadian gene expression"

Johannes Zuber: "Improved shRNAmir screening systems identify Brd4 as a drug target in aggressive leukemia"

18.50 – 19.00 Award for the PhD-Workshop and closing of the meeting

19.00 – DINNER AT THE ATRIUM.

Posters:

Combinatorial microRNA regulation during adipogenesis: A systems biology approach.

Maria Liivrand, Merja Heinäniemi, Carsten Carlberg, Lasse Sinkkonen and Thomas Sauter.

miR-148b is a major coordinator in a Relapse-associated miR signature in Breast Tumors.

D. Cimino, C. De Pittà, F. Orso, S. Casara, M. Zampini, C. Romualdi, C. Damasco, E. Pinatel, R. Ponzone, C. Brisken, M. De Bortoli, P. Sismondi, G. Lanfranchi, P. Provero and D. Taverna.

Post-transcriptional regulation of Osterix/SP7 by microRNAs.

Serena Rubina Baglio, Carlos le Sage, Donatella Granchi, Reuven Agami and Nicola Baldini.

To the origin of translational control: Are there small ncRNAs interacting with the archaeal ribosome?

Gebetsberger Jennifer, Marek Zywicki and Polacek Norbert.

Influence of EBV-encoded proteins on the vault RNA level.

Birgit Nachbauer, Melanie Amort, Aloys Schepers and Norbert Polacek.

Dataset integration identifies transcriptional regulation of microRNA genes by PPARG in mouse adipogenesis.

Elisabeth John, Anke Wienecke-Baldacchino, Merja Heinäniemi, Carsten Carlberg and Lasse Sinkkonen.

Nora virus suppresses the effector phase of the RNAi pathway.

Joël T. van Mierlo, A. Walter Bronkhorst, Christophe Antoniewski and Ronald P. van Rij.

Upregulated miRNAs and putative pathway control in aged human fibroblasts.

Marina C. Costa, André Melo, Maria Carmo-Fonseca and Francisco J. Enguita.

Role of Dicer in the pathogenesis of Herpesviruses.

Eléonore Schmitt, Cécile Macquin and Philippe Georgel.

Post-transcriptional modifications affect the microRNA's residency in argonaute effector complexes.

H. Alexander Ebhardt.

Plant virus control employing RNA-based vaccines: A novel non-transgenic strategy.

Andreas Voloudakis.

Identification of Non-coding RNAs Involved in Neural Differentiation.

K. Skreka, I. R. Nat, M. Zywicki, M. Heiss, A. Salti, G. Dechant and A. Hüttenhofer.

The role of miR-200 in breast cancer metastasis.

Ricardo Perdigão Henriques.

RNA oligonucleotides can modulate human Dicer activity in vitro.

Anna Kurzynska-Kokorniak, Natalia Koralewska, Agata Tyczewska, Tomasz Twardowski and Marek Figlerowicz.

Effects of human Argonaute2 phosphorylation on small RNA-guided gene silencing.

Simone Harlander, Sabine Rüdel and Gunter Meister.

CAMTA1 is a novel tumor suppressor that is regulated by miR-9/9* in glioblastoma stem cells.

Daniel Schraivogel, Lasse Weinmann, Alexander Eichner, Christoph Beier, Dagmar Beier and Gunter Meister.

Distinct microRNA signatures in human lymphocyte subsets and enforcement of CD4+ T cell naiveness by miR-125b.

G. Rossetti, R. L. Rossi, L. Wenandy, S. Curti, A. Ripamonti, R. J. P. Bonnal, R. Sciarretta Birolo, M. Moro, V. Parente, J. Geginat, S. Abrignani and M. Pagani.

Cytokine-dependent regulation of microRNA expression: relevance for melanoma development.

Martina Schmitt, Demetra Philippidou, Christiane Margue, Iris Behrmann and Stephanie Kreis.

miR-184 maintains pancreatic β cell mass.

Sudhir Gopal Tattikota and Matthew N. Poy.

The functional role of microRNA-375 in pancreatic b-cells.

Thomas Rathjen, Sudhir G. Tattikota and Matthew N. Poy.

Regulation of miRNA biogenesis by TNF- α and IGF-I involves MAPK/Erk signaling.

Swanhild U. Meyer, Michael W. Pfaffl and Christian Thirion.

Mir-19 regulates TLR2 expression in rheumatoid arthritis fibroblast-like synoviocytes.

Lucas Philippe, Ghada Alsaleh, Guillaume Suffert, Philippe Georgel, Sébastien Pfeffer, Jacques-Eric Gottenberg, Jean Sibilia and Dominique Wachsmann.

Altered miR-146a expression in Atopic Dermatitis and its functional role in human primary keratinocytes.

Ana Rebane, Alar Aab, Maya Zimmermann, Andrea Koreck, Norbert Meyer and Cezmi Akdis.

Array based analysis of miRNA and mRNA expression characterizes early differentiation pathways of CD133+ and CD34+ hematopoietic stem and progenitor cells.

Ute Bissels, Stefan Wild, Stefan Tomiuk, Markus Hafner, Hartmut Scheel, Aleksandra Mihailovic, Yeong-Hoon Choi; Thomas Tuschl and Andreas Bosio.



The 6th MICROSYMPOSIUM on SMALL RNAs

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