8th MICROSYMPOSIUM on SMALL RNAs

Monday 27th

11.00 – 11.10 **Welcome and Introduction**

11.10 – 13.00 **Structure and Mechanism (1)**

11.10 – 11.40 **Elisa Izaurralde** – Mechanisms of miRNA-mediated gene silencing

11.40 – 12.10 **Jeremy Wilusz (Sharp Lab)** – Changing dogmas of post-transcriptional control: Lessons from the MALAT1 noncoding RNA

12.10 – 12.40 **Carolyn Phillips (Ruvkun Lab)** – Compartmentalization of siRNA and piRNA pathways in C. elegans

12.40 – 14.00 *Lunch*

14.00 – 15.00 **Keynote Lecture**

Narry Kim – Regulation of microRNA through alternative processing and modifications

15.00 – 16.40 **PhD Workshop – Part 1**

15.00 – 15.20 **Daniela Praher (Technau Lab, University of Vienna)** – Cnidarian microRNAs regulate their targets by a plant-like cleavage mechanism

15.20 – 15.40 **Alfred Bronkhorst (van Rij Lab, Nijmegen Centre for Molecular Life Sciences)** The DNA virus Invertebrate iridescent virus 6 is a target of the *Drosophila* RNAi machinery

15.40 – 16.00 **Judith Hauptmann (Meister Lab, University of Regensburg)** – Turning catalytically inactive human Argonaute proteins into active slicer enzymes

16.00 – 16.20 **Jennifer Gebetsberger (Polacek Lab, Department for Chemistry and Biochemistry, University of Bern, Switzerland**) – When small non-coding RNAs meet the ribosome: Tuning the translational machinery

16.20 – 16.40 **Sophie Wöhrer (Mochizuki Lab, IMBA)** – Assembly of a functional small RNA effector complex in *Tetrahymena*

16.40 – 17.10 *Break*

17.10 – 19.00 Genome defense (1)

17.10 – 17.40 **Jean-René Huynh** – tRNA fragments and transposable elements silencing in the *Drosophila* germline

17.40 – 18.10 **Ramesh Pillai** – Role of yet another tudor domain protein Tdrd12 in mouse piRNA biogenesis and its essential role for transposon silencing

18.10 – 18.30 **QIAGEN, Anni R. Thomsen** - miRNA profiling from serum or plasma — challenges and recommendations

18.30 – 19.00 **Tai Montgomery (Ruvkun Lab)** – Crosstalk between small RNA pathways in *C. elegans*

19.00 – 19.20 EMBO Journal, Anne Nielsen, Editor

19.30 Dinner at the IMBA/IMP cafeteria

Monday 27th

Salad from the buffet

Glaced veal Tafelspitz

Risotto and Asparagus

Halibutt fillet

Ratatouille vegetables

Zuccotto cream in the glass

Wednesday 29th

Cheese plate all over the world

Grapes and Nuts

Caesars Salad with chicken, grana and croutons

Variation of fresh baguettes

Fresh fruit salad and profiteroles

And the wine!

Grey Carmenere 2010,
Red Wine, Chile, from Ventisquero

Legends 2011,
Red Wine, Austria, from Scheiblhofer

Chardonnay Unplugged 2012,
White Wine, Austria, from Hannes Reeh

Grüner Veltliner Kamptaler Terrassen 2012,
White Wine, Austria, from Bründlmayer

Tuesday 28th

9.00 – 10.30 Small RNA Biology (1)

9.00 – 9.30 **Richard Carthew** – Regulation of miRISC activity by lipid signaling

9.30 – 10.00 **Sue-Jean Hong (Bartel Lab)** – Biological roles of miRNA-200 regulation of Zeb1 and Zeb2 during mammalian development

10.00 – 10.30 **Antonio Giraldez** – How life begins: The maternal to zygotic transition

10.30 – 11.00 Break

11.00 – 12.30 Genome Defense (2)

11.00 – 11.30 **Shiv Grewal** – Epigenetic genome control by RNAi and heterochromatin machinery

11.30 – 12.00 **Kuniaki Saito** – DmGTSF1 is required for effective retrotransposon silencing by Piwi and ovarian development in *Drosophila*

12.00 – 12.30 **Eric Miska** – Social RNA

12.30 – 13.30 Lunch

13.30 – 15.00 Structure and Mechanism (2)

13.30 – 14.00 **Yukihide Tomari** – Assembly and function of RISC

14.00 – 14.30 **Illumina – ENCODE your research, Silvio Scheel –** Gene Expression and Regulation Update

14.30 – 15.00 **Markus Hafner (Tuschl Lab)** – RNA targets of LIN28

15.00 – 15.30 Coffee break / Poster viewing

15.30 – 16.20 Mechanism and Application

15.30 – 16.00 **Anastasia Khvorova** – RNA Therapeutics: Promise and Reality

16.00 – 16.20 **Christof Fellmann (Mirimus)** – A processing-optimized backbone boosts the effectiveness of experimental miRNA-based RNAi

16.20 – 16.50 **Helen Pickersgill** – Scientific writing from an editor's perspective

17.00 - Tour, Dinner with academic speakers, Bar for Workshop PhD students

Wednesday 29th

9.00 – 10.30 Small RNA Biology (2)

9.00 – 9.30 **Chris Hammell** – The coupling of temporal gene expression and cell fate specification

9.30 – 10.00 **Ana Eulalio** – Shedding light on microRNA function through High Content Screening

10.00 – 10.30 **Petr Svoboda** – The real RNAi – a tale of naughty mice

10.30 – 11.00 Break

11.00 – 12.40 PhD Workshop – Part 2

11.00 – 11.20 **Felix Muerdter (Hannon Lab, CSHL)**– A genome-wide RNAi screen draws a genetic framework for transposon control and primary piRNA biogenesis in Drosophila

11.20 – 11.40 **Mirela Marasovic (Halic Lab, Gene Center Munich)** – Argonaute and Trimmer generate Dicer-independent priRNAs and mature siRNAs to initiate heterochromatin formation

11.40 – 12.00 **Zhao Zhang (Zamore & Theurkauf Labs, UMass Medical School)** – Rhino binding and convergent transcription are sufficient to generate a piRNA-producing locus

12.00 – 12.20 **Matyas Ecsedi (Großhans Lab, FMI Basel)**– Quantitative analysis reveals extensive target specificity of individual let-7 miRNA family members in vivo

12.20 – 12.40 **Grzegorz Sienski (Brennecke Lab, IMBA)** – Dissection of the Piwi-mediated transcriptional silencing process

12.40 – 15.00 Lunch and poster viewing