



Annual RNA Retreat

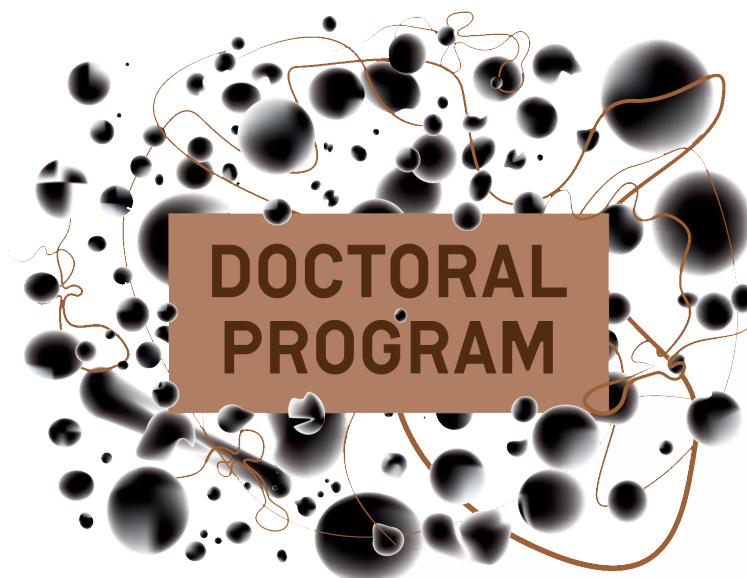
14 – 16 April 2016

Vila Vita Pannonia

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THURSDAY, 14th April 2016

10:15 Departure from VBC
Bus (company Dr.Richard) at corner of Viehmarktgassee/Dr.-Bohr-Gasse

12:15 LUNCH at Vila Vita Pannonia

13:30 Welcome in the "Seewinkelhalle"

Chair: Michael Jantsch

13:40 **Christa Bückner (MFPL)**
Dynamic view of enhancer activation during early embryonic development

14:10 **Mamduh A. Zabidi (group Stark)**
The sequence composition of Drosophila core promoters
Mamduh Zabidi (group Stark)

14:30 **Rippe Hayashi (group Brennecke)**
Genetic and mechanistic diversity of piRNA 3'end formation in Drosophila

14:50 **Tanja Drexel (group Cochella)**
Neuron-type specific miRNA represses two housekeeping genes to modulate an avoidance behavior

15:10 BREAK + CHECK IN

Chair: Javier Martinez

16:00 **Quannah Hudson**
Interactions between open chromatin may target Airn lncRNA silencing of distant genes

16:20 **Ivo Hofacker**
RNA 3D structure prediction with experimental data

16:50 Poster Teaser Talks for Poster Session I (15 à 3min)

18: 40 DINNER at hotel restaurant

20: 15 Poster Session I
Discussions
Socialising

FRIDAY, 15th April 2016

Chair: Alexander Stark

- 09:00 **Peter Lukavsky (CEITEC, Brno)**
RNA-based regulation of gene expression
- 09:30 **Milica Kronic (group von Haeseler)**
VARIFI – Automatic Variant Identification, Filtering and Annotation of Amplicon Sequencing Data
- 09:50 **Maximilian Radtke (group Schroeder)**
Nested splicing in small introns regulates transcript abundance and isoform expression
- 10:10 **Veronika Herzog (group Ameres)**
High-throughput metabolic sequencing of RNA reveals global insights into post-transcriptional gene regulation

10:30 BREAK

Chair: Luisa Cochella

- 11:00 **Ezequiel Petrillo (group Barta)**
Travelling chloroplast retrograde signals: the root station
- 11:20 **Michael Schon (group Nodine)**
Identifying novel noncoding RNAs through transcriptome profiling of Arabidopsis embryogenesis
- 11:40 **Vitaly Sedlyarov (group Kovarik)**
TTP binding site atlas in the macrophage transcriptome reveals a switch for inflammation resolution
- 12:00 **Muna Ayesha Khan (group Görke)**
Two small RNAs conserved in Enterobacteriaceae provide intrinsic resistance to antibiotics targeting the cell wall biosynthesis enzyme glucosamine-6-phosphate synthase

12:20 LUNCH

Chair: Stefan Ameres

- 14:00 **Paola Pinto (group Martinez)**
The RNA 3'-terminal phosphate cyclase, RTCD1, and a mysterious, active associated factor
- 14:20 **Elisa Vilardo (group Rossmanith)**
Roles and interplay of the subunits of human mitochondrial RNase P
- 14:40 Poster Teaser Talks for Poster Session II

16:10 BREAK

16:30 Poster Session II with Drinks & Snacks

18:15 Faculty Meeting (1 hour)

19:30 **DINNER** at "Csarda" Stadl (in the resort)

SATURDAY, 16th April 2016

Chair: Renée Schroeder

- 09:00 **Andrea Pauli (IMP)**
Found in translation – from genomics to novel gene function
- 09:30 **Alexander Kornienko (group Barlow)**
Long non-coding RNAs display higher natural expression variation than protein-coding genes in healthy humans
- 09:50 **Nela Nikolic (group Moll)**
Induction of the MazF endoribonuclease promotes growth heterogeneity between single bacterial cells
- 10:10 **Petra Pusic (group Bläsi)**
Effect of Hfq on antibiotic susceptibility and biofilm formation in *Pseudomonas aeruginosa*

10:30 BREAK (latest chance for check out)

Chair: Isabella Moll

- 11:00 **Liam Keegan (CEITEC, Brno)**
ADAR RNA editing and innate immunity
- 11:30 **Maja Stulic (group Jantsch)**
Filamin RNA editing controls cell migration and colitis
- 11:50 **Bianca Genencher (group Schäfer)**
RNA Methylation and Genome Instability: Searching the Missing Link?
- 12:10 Q&A Session for PhD Students

12:40 LUNCH

- 13:45 Bus leaving back to Vienna Biocenter Campus

Poster Session I

Thursday 14th April 2016

- #1 Brian Reichholf (group Ameres):
Intracellular kinetics of small RNA biogenesis and turnover
- #2 Daniel Andergassen (group Barlow/ Hudson):
Allele-specific H3K27ac defines domains of activation and repression
- #3 Muralidhar Tata (group Bläsi):
Identification and characterization of novel ncRNAs in anoxic biofilms of *Pseudomonas aeruginosa* PA14 by RNA-Seq
- #4 Julia Batki (group Brennecke):
Characterization of novel factors required for Piwi-mediated transcriptional gene silencing
- #5 Mostafa Elmaghraby (group Brennecke):
tba
- #6 Sveltana Durica (group Görke):
Molecular characterization of RNase E adaptor protein RapZ
- #7 Yvonne Göpel (group Görke):
Identification of adapter proteins for global Endoribonucleases in *Escherichia coli*
- #8 Markus Mörk-Mörkenstein (group Görke):
Modulation of histidine kinase activity by interaction with an accessory protein in *Escherichia coli*
- #9 Gregor Entzian (group Hofacker):
RNA kinetics
- #10 Mariam Farman (group Hofacker):
Transcriptomics of *Bordetella* and human phagocytes interplay
- #11 Stefan Hammer (group Hofacker):
Flexible and universal multiple target sequence design
- #12 Roman Ochsenreiter (group Hofacker):
Virus RNA Structure Atlas
- #13 Benedikt Hagen (group Indik, VetMed):
Multiplex single molecule RNA-FISH to study nucleo-cytoplasmic transport of retroviral mRNAs
- #14 Prajakta Bajad (group Jantsch):
tba
- #15 Utkarsh Kapoor (group Jantsch):
Global interplay of A-to-I RNA editing & pre-mRNA splicing

PLUS

from student speakers of day 1: Simple print-out of "most important" slides (e.g. simply A4 pages) for discussions in the poster session

Poster Session II

Friday 15th April 2016

- #16 Florian **Ebner** (group Kovarik):
mRNA-binding protein Tristetraprolin governs T cell-mediated immunity to colorectal cancer
- #17 Lucy **Sneezum** (group Kovarik):
Tristetraprolin regulates mRNA decay in inflammation
- #18 Dhaarsini **Koneswarakantha** (group Martinez):
The surprising link between tRNA splicing and selenocysteine biosynthesis
- #19 Tanino **Albanese** (group Moll):
Recycling of stalled ribosome complexes in the absence of trans-translation
- #20 Folke **Ebert** (group Moll):
Regulation of ribosomal protein S1
- #21 Christan **Müller** (group Moll):
Ribosome repair: The RNA-Ligase RtcB antagonizes stress-induced ribosome heterogeneity in E. coli
- #22 Mykola **Roiuk** (group Moll):
tRNA Val as a potential MazF target
- #23 Stefan **Lutzmayer** (group Nodine):
Understanding siRNA functions in Arabidopsis embryos
- #24 Aleksandra **Plotnikova** (group Nodine):
Spatiotemporal functions of microRNAs in plant embryos
- #25 Luis Enrique **Cabrera Quio** (group Pauli, IMP):
Towards the understanding of translation dynamics during the mesoderm transition
- #26 Sabrina **Summer** (group Rossmann):
Characterization of human YBEY, a potential new player in mitochondrial RNA metabolism
- #27 Andrés **Magan Garcia** (group Schroeder):
Interfering with antisense transcription: the role of RNA polymerase-binding RNA aptamers in transcriptional interference
- #28 Luis Felipe **Paulin Paz** (group von Haeseler):
Understanding the sampling properties of high throughput sequencing technologies
- #29 Caroline **Poynter** (VIBT/ BOKU):
Monitoring of skin infection by *Exophiala dermatitidis* using transcriptomics

PLUS

from student speakers of day 2 & 3: Simple print-out of "most important" slides (e.g. simply A4 pages) for discussions in the poster session