

VIENNA RNA MEETING 2013

OCTOBER 13TH TO 15TH, 2013
IMBA/GMI LECTURE HALL
DR. BOHR-GASSE 3, 1030 VIENNA

Registration: Gerlinde Aschauer – gerlinde.aschauer@univie.ac.at

This meeting is organized by the
SFB RNA Regulation of the Transcriptome and the
DoktoratsKolleg RNA Biology.
www.mfpl.ac.at/rna-biology



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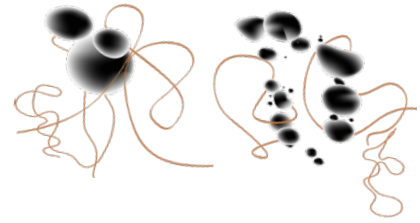
MEDIZINISCHE
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Der Wissenschaftsfonds.

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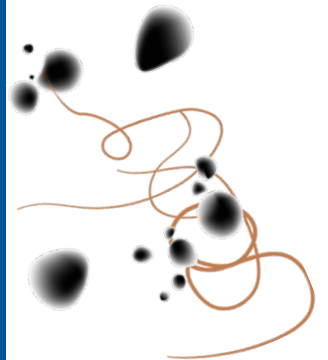
OCTOBER 13TH TO 15TH, 2013



Travel directions

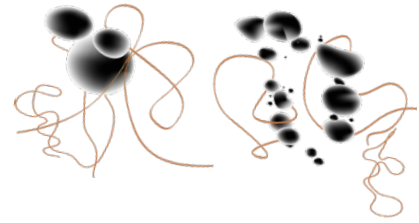
IMBA Lecture Hall
Dr. Bohr-Gasse 3
1030 Vienna, Austria

Public lines (stop "St. Marx"):
Tram 71, Tram 18, Bus 74 A, Railway (S-Bahn) S7



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Program

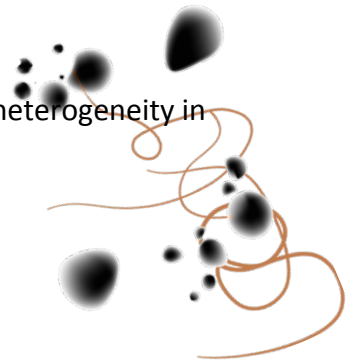
Sunday, October 13th, 2013

15:00 – 16:00 Registration / snacks and refreshments / poster setup
16:00 **Renée Schroeder**; Introductory remarks

Session I: Prokaryotes – Chair: Udo Bläsi

16:15 – 16:45 **Pascale Romby**, Institut Biologie Moléculaire et Cellulaire du CNRS, France
RNA-dependent regulation in *Staphylococcus aureus*
16:45 – 17:15 **Gerhart Wagner**, University of Uppsala, Sweden
Bacterial sRNAs regulating transcription factors: mechanistic aspects and regulatory properties
17:15 – 17:45 **Boris Görke**, MFPL, Austria
Control of bacterial cell wall biosynthesis by a hierarchically acting cascade of two small RNAs
17:45 – 18:15 **Isabella Moll**, MFPL, Austria
Regulation done the smart way: reversible ribosome heterogeneity in *Escherichia coli*

19:00 *Dinner at Altes Jägerhaus*



Monday, October 14th, 2013

Session II: miRNAs I – Chair: Luisa Cochella

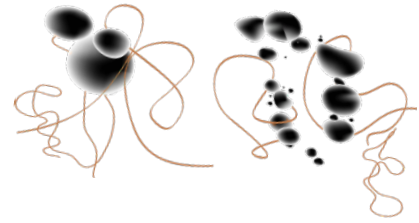
9:00 – 9:30 **Mihaela Zavolan**, University of Basel, Switzerland
Uncovering the impact of miRNAs on transcription regulatory networks
9:30 – 10:00 **Gerhard Schratt**, University of Marburg, Germany
microRNA function in synapse development and plasticity
10:00 – 10:30 **Xuemei Chen**, University of California, USA
Plant microRNAs – mechanisms of action and turnover

10:30 – 11:00 *Coffee Break*



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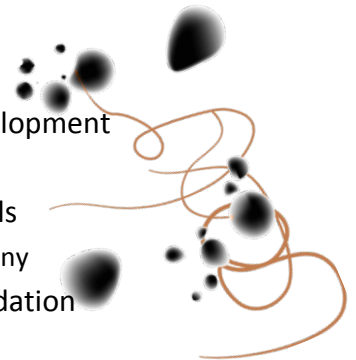
- 11:00 – 11:15 **Elisabeth Sonnleitner**, MFPL, Austria
Derepression of Hfq-regulated target mRNAs by titration
- 11:15 – 11:30 **Vitaly Sedlyarov**, MFPL, Austria
Specificity parameters of TTP-mediated mRNA decay
- 11:30 – 11:45 **Florian Eggenhofer**, University of Vienna, Austria
Comparing covariance models and visualization
- 11:45 – 12:00 **Ursula Schöberl**, IMBA, Vienna
Transcriptional regulation of noncoding RNAs involved in DNA elimination in Tetrahymena

12:00 – 13:00 *Poster Session I*

13:00 – 14:00 *Lunch*

Session III: miRNAs II – Chair: Javier Martinez

- 14:00 – 14:30 **Luisa Cochella**, IMP, Austria
Spatio-temporal specificity of miRNA function in development
- 14:30 – 15:00 **Silke Dorner**, MFPL, Austria
mRNA degradation on the ribosome in Drosophila cells
- 15:00 – 15:30 **Elena Conti**, Max Planck Institute of Biochemistry, Germany
Molecular mechanisms of eukaryotic 3'-5' RNA degradation



15:30 – 16:00 *Coffee Break*

- 16:00 – 16:30 **Stefan Ameres**, IMBA, Austria
Identification and characterization of small RNA modifying and degrading enzymes
- 16:30 – 17:00 **Rickard Sandberg**, Karolinska Institut, Sweden
Patterns of allelic transcription in single cells
- 17:00 – 17:30 **Joshua Rosenthal**, University of Puerto Rico
Generating functional diversity in the brains of tinfisch by RNA editing
- 17:30 – 18:00 **Michael Jantsch**, MFPL, Austria
Regulating the actin cytoskeleton with RNA-editing

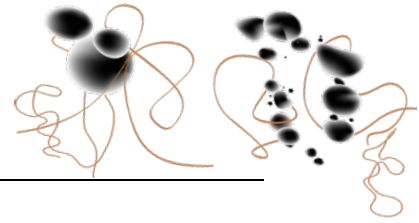
18:00 – 19:00 *Poster Session II / Aperitif*

19:00 *Dinner at IMP Cafeteria*



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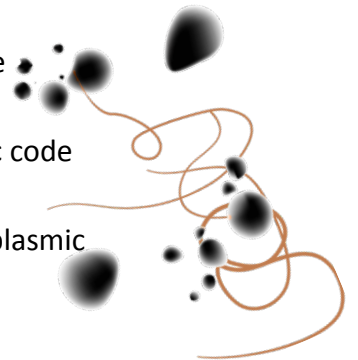
Tuesday, October 15th, 2013

Session IV: RNA Processing – Chair: Andrea Barta

- 9:00 – 9:30 **Stewart Shuman**, Memorial Sloan-Kettering Cancer Center, USA
Biology and chemistry of RNA damage and RNA repair
- 9:30 – 10:00 **Michael Rosbash**, Brandeis University, USA
Circadian Rhythms, Neurons, and RNA Processing
- 10:00 – 10:30 **Emmanuelle Charpentier**, Helmholtz Center for Infection Research, Germany
From CRISPR-Cas bacterial adaptive immunity to genome engineering:
the RNA-programmable DNA endonuclease Cas9

10:30 – 11:00 Coffee Break

- 11:00 – 11:15 **Grzegorz Sienski**, IMBA, Austria
Piwi interacting RNAs orchestrate transcriptional trans-silencing of
transposons in Drosophila
- 11:15 – 11:30 **Meghan Lybecker**, MFPL, Austria
Identification of sRNAs in the Lyme disease spirochete
- 11:30 – 11:45 **Bojan Zagrovic**, MFPL, Austria
Protein-RNA interactions and the origin of the genetic code
- 11:45 – 12:00 **Dmytro Ustianenko**, CEITEK, Czech Republic
DIS3L2 is the key component of the mammalian cytoplasmic
uridylation-mediated RNA degradation pathway



12:00 – 13:00 Poster Session III

13:00 – 14:00 Lunch

Session V: RNA-protein Interactions – Chair: Alex Stark

- 14:00 – 14:30 **Fatima Gebauer**, Centre for Genomic Regulation (CRG), Spain
UNR: an RNA binding protein with multiple roles in post-transcriptional
gene regulation
- 14:30 – 15:00 **Daniel Gautheret**, Université Paris-Sud, France
Detecting unexpected RNA processing events - a window on the
pervasive alternative transcriptome
- 15:00 – 15:30 **Markus Landthaler**, Max-Delbrück-Center for Molecular Medicine, Germany
Insights into the mammalian protein-mRNA interactome

15:30 – 16:00 Concluding Remarks

