RNA-BASED THERAPEUTICS | RNA IN NEUROSCIENCE | RNA IN CANCER | RNA IN IMMUNOLOGY

RNA
IN DISEASE AND DEVELOPMENT

VIENNA RNA MEETING 2015
22–24 OCTOBER

REGISTRATION: WWW.VIENNA-RNA-MEETING.AT

VAN SWIETEN SAAL · VAN-SWIETEN-GASSE 1A · A-1090 VIENNA

GESTALTUNG: BUERO BAUER

KEYNOTE:
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VIENNA RNA BIOLOGY

mfpl | universität wien | MEDICAL UNIVERSITY OF VIENNA | FWF | Ce-M-M- | GMI | IMBA | IMP

Vienna RNA Meeting 2015

RNA in Disease and Development

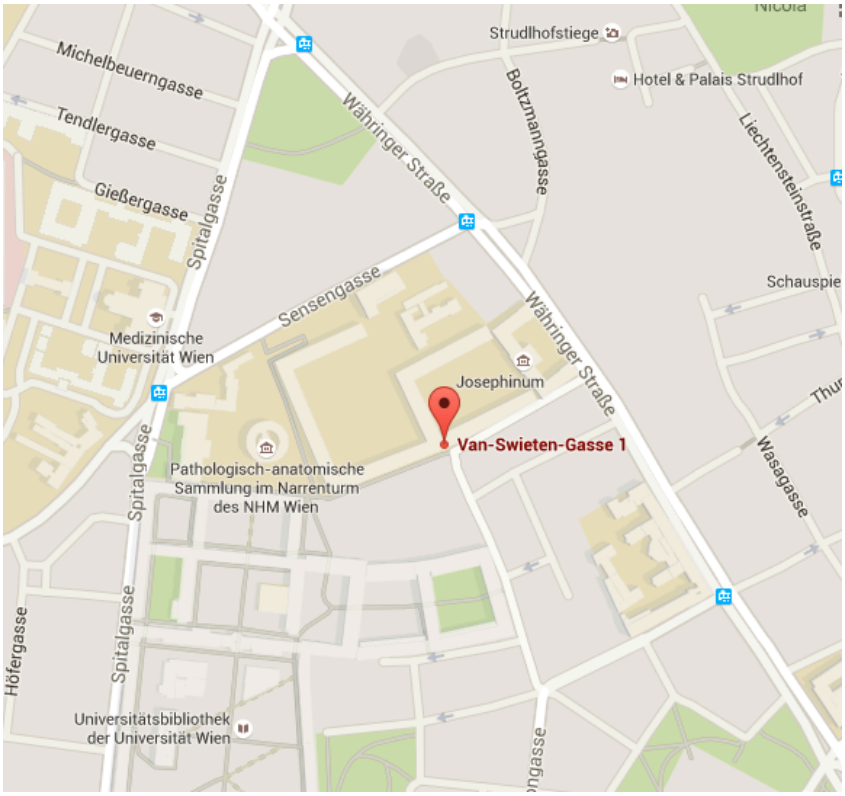
Under the patronage of Prof. Dr. Markus Müller

Rector of the Medical University of Vienna

Location

Van Swieten Saal
Van-Swieten-Gasse 1a
A-1090 Wien

The conference venue is easily reached on foot from the Medical University of Vienna or the stop Schottentor (U2, various trams). At Schottentor you can take one of the trams leaving the lower platform and exit the first stop Schwarzspanierstrasse.



Organizers:

DoktoratsKolleg RNA Biology – **Andrea Barta**, Medical University of Vienna
SFB RNA Regulation of the Transcriptome – **Michael Jantsch**, Medical University of Vienna

www.vienna-rna-meeting.at

Thursday 22 October 2015

14:30 Registration & Welcome

16:00 Welcome

Markus Müller
Rector of the Medical University of Vienna and Patron of this year's Vienna RNA Meeting

Andrea Barta
Medical University of Vienna, Head of the DoktoratsKolleg RNA Biolog

Michael Jantsch
Medical University of Vienna, Head of the SFB RNA Regulation of the Transcriptome

Session 1, Chair: Andrea Barta

16:15 **Phillip A. Sharp** Koch Institute for Integrative Cancer Research at M.I.T.
Non-coding RNAs, synthesis, function and utility

17:00 **Thomas A. Cooper** Baylor College of Medicine, Houston, TX
Alternative splicing regulatory networks in development and their disruption in myotonic dystrophy

19:00 Speaker's Dinner

Friday 23 October 2015

Session II, Chair: Richard Moriggl

09:00 **Joan Steitz** Yale School of Medicine, New Haven
Nuclear noncoding RNAs of viral and cellular origin: more surprises.

09:30 **Alison Tyson-Capper** Newcastle University, U.K.
HER2 and ER splice variants in breast cancer: What is the 'true' receptor status?

10:00 **Andrea Barta** Medical University of Vienna, Max F. Perutz Laboratories
Exitron splicing in breast cancer

10:20 **Florian Pauler** Center of Molecular Medicine (CeMM), Vienna
From vision to reality: Airn lncRNA as a model for understanding lncRNA function, epigenetic control and RNA-biology

10:40 *Break*

11:10 **Gideon Rechavi** University of Tel Aviv, The Chaim Sheba Medical Center
The role of m^6A mRNA methylation in early embryonic cell fate decisions

11:30 **Heinrich Kovar** Children's Cancer Research Institute (CCRI), Vienna
A Ewing sarcoma susceptibility locus regulates a long non-coding RNA: Evidence for involvement in post-translational stress response

11:50 **Julius Brennecke**
Institute of Molecular Biotechnology (IMBA) of the Austrian Academy of Sciences
Silencio connects the Piwi-piRNA complex to the cellular heterochromatin machinery

12:10 **Sten Linnarsson** Karolinska Institute, Stockholm
Molecular anatomy of the mouse brain by single-cell RNA-seq

12:40 *Lunch plus* ***Poster Session I***

Session III, Chair: Udo Bläsi

14:30 **Pascale Cossart** Institut Pasteur, Paris
Novel RNA-mediated regulations : lessons from Listeria

15:00 **Petra Dersch**
Helmholtz Centre for Infection Research, Technical Univ. Braunschweig
Sensory and regulatory RNAs as mediators of Yersinia virulence gene expression

15:30 **Boris Görke** University of Vienna, Max F. Perutz Laboratories
Domain swapping between homologous bacterial small RNAs uncovers an aptamer for conditional RNase E cleavage

15:50 **Isabella Moll** University of Vienna, Max F. Perutz Laboratories
The Ribosome: A key player in persistence?

16:10 *Break*

Session IV, Chair: Alex Stark

16:40 **Javier Martinez**
Institute of Molecular Biotechnology (IMBA) of the Austrian Academy of Sciences
The endless search for novel RNA metabolic pathways

17:00 **Martin Jinek** University of Zurich (UZH)
CRISPR-Cas: from genome defence to genome editing and gene therapy.

17:30 **Johannes Zuber** Research Institute of Molecular Pathology (IMP), Vienna
Finding and probing cancer dependencies using advanced shRNAmir technology

19:00 Conference Dinner

Saturday 24 October 2015

Session V, Chair: Mary O'Connell

09:00 **Matthias Schäfer** Medical University of Vienna
Cytosine Methylation Marks in RNA: Detection and Biological Function

09:20 **Walter Rossmanith** Medical University of Vienna
HSD10 disease: impaired mitochondrial tRNA maturation rather than a deficiency in isoleucine metabolism?

09:40 **Georg Stöcklin**
German Cancer Research Center (DKFZ), University of Heidelberg
The RNA-binding protein TIAR control mitotic entry an maintains genome stability

10:10 **Johannes Popow** EMBL, Heidelberg
FASTKD2 is an RNA-binding protein required for mitochondrial RNA processing and translation

*10:40 Brunch Break plus **Poster Session II***

Session VI

12:30 **Susan L. Ackerman**
Howard Hughes Medical Institute and The Jackson Laboratory
Transfer RNAs and Neurological Dysfunction

13:00 **Mani Ramaswami** Trinity College Dublin
Ataxin-2 and disordered protein domains in neuronal RNA-granule formation and memory consolidation in vivo

13:30 **Luisa Cochella** Research Institute of Molecular Pathology (IMP), Vienna
Dissecting the roles of miRNAs in the nervous system using C. elegans

13:50 **Michael Jantsch** Medical University of Vienna
Consequences of A to I RNA editing on cell contraction and inflammation

14:10 Closing Remarks