

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](http://WWW.VIENNA-RNA-MEETING.AT)

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

KEYNOTE:

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SUSAN L. ACKERMAN BAR HARBOR, U.S.A.

THOMAS A. COOPER HOUSTON, U.S.A.

PASCALE COSSART PARIS, FRANCE

PETRA DERSCH BRAUNSCHWEIG, GERMANY

MARTIN JINEK ZURICH, SWITZERLAND

STEN LINNARSSON STOCKHOLM, SWEDEN

JOHANNES POPOW HEIDELBERG, GERMANY

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GIDEON RECHAVI TEL AVIV, ISRAEL

JOAN STEITZ NEW HAVEN, U.S.A.

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# Vienna RNA Meeting 2015

## RNA in Disease and Development

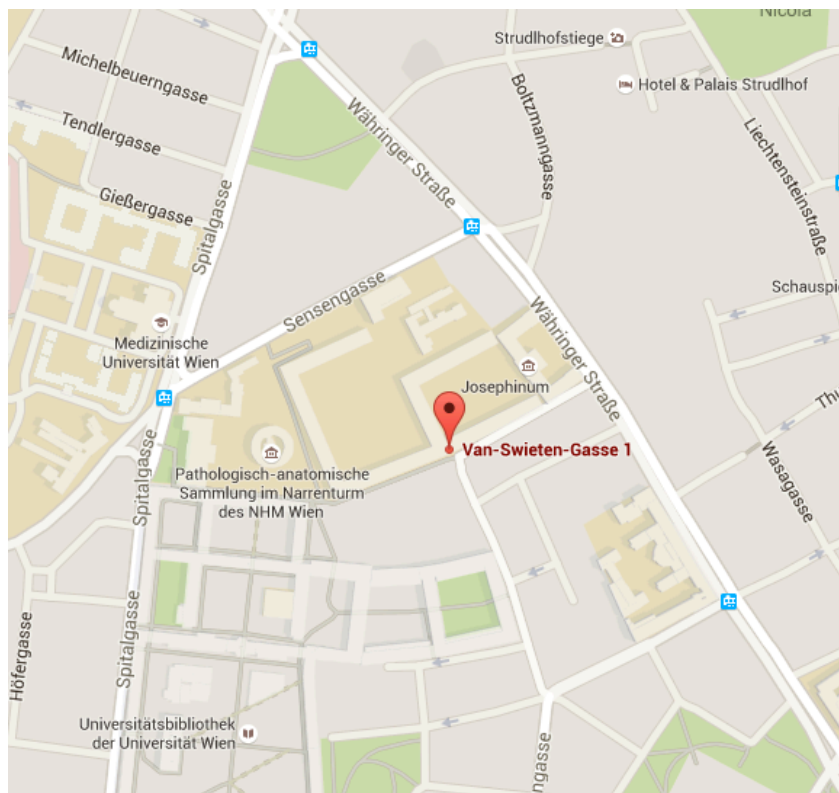
Under the patronage of Prof. Dr. Markus Müller  
Rector of the Medical University of Vienna

### 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

## 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

*Extron 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<sup>6</sup>A 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 Rossmann** 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 and 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