

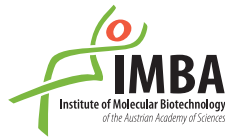


# 17<sup>th</sup> Microsymposium on RNA Biology

Vienna BioCenter, May 3<sup>rd</sup> - 5<sup>th</sup> 2023

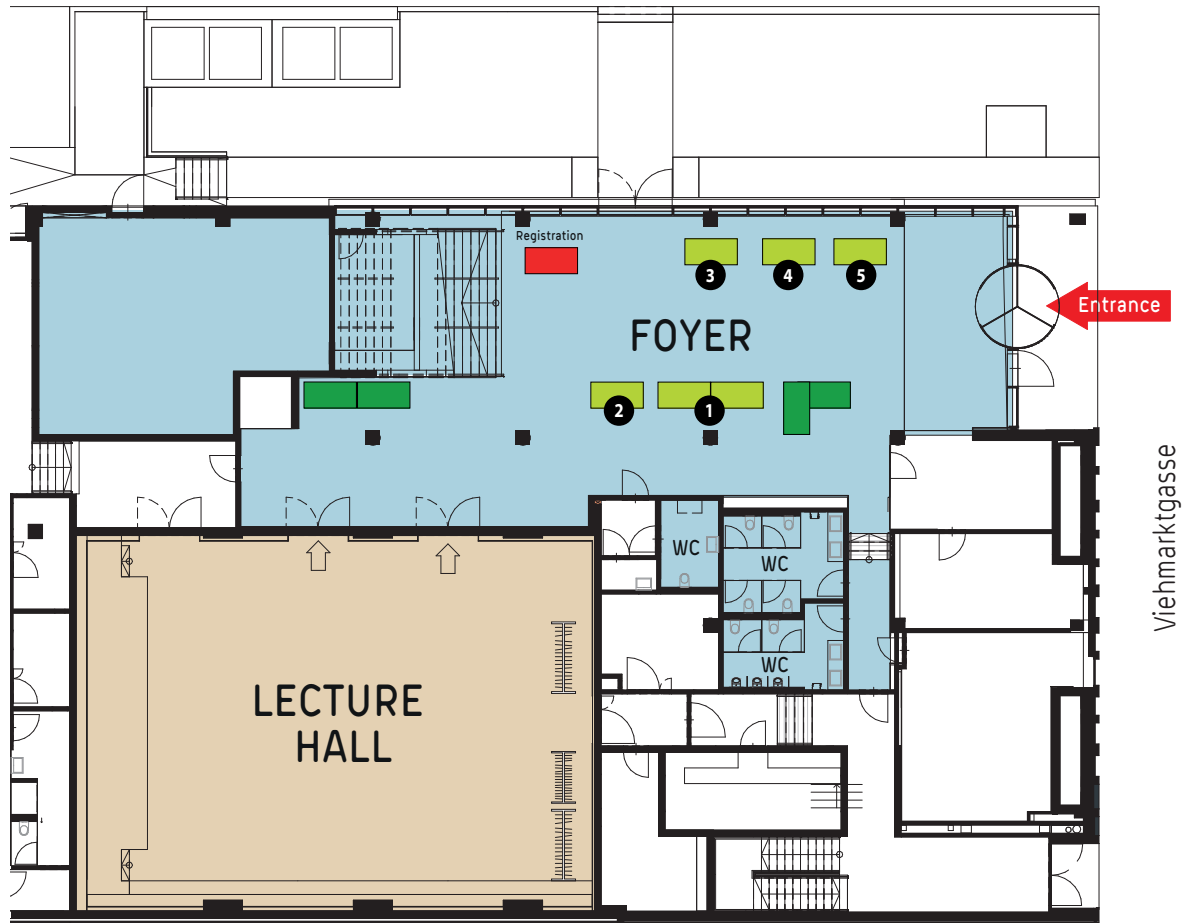


Special thanks to all supporters & sponsors of the Microsymposium:



Seeing beyond

Campus - Vienna - Biocenter



Registration

Buffet

Coat rack

EXHIBITORS: 1 Eclipse BioInnovations

2 QIAGEN

3 Lexogen

4 New England Biolabs

5 Integrated DNA Technologies

## 2023 EXHIBITORS

- 1 Eclipse BioInnovations
- 2 QIAGEN
- 3 Lexogen
- 4 New England Biolabs
- 5 Integrated DNA Technologies

R registration / information desk

Buffet

Coat hanegrs



16:45

## PhD workshop pt.1

**Tsimafei Navalayeu** (Max Perutz Labs)

CRISPR/Cas9 screening resolves the functions, cellular assembly and proteostatic control of mammalian RNA exosome subunits

**Young Yoon Lee** (Seoul National University)

Molecular and structural insights into small RNA production by human DICER

**David Steinbrecht** (Charité)

Modelling how mRNA flows through subcellular compartments

17:30

coffee break

## Session 2:

### RNA processing (pt. 2)

Chair: Javier Martinez

18:00

**Stefanie Jonas** (ETH Zurich) [EMBO Young Investigator Lecture]

Basis of gene-specific transcription attenuation by the Integrator complex

18:30

**Torben Heick-Jensen** (Aarhus University)

Nuclear Sorting of RNA

19:00

**Niko Amin-Wetzel** (Institute of Science and Technology Austria)

The macoilin-CCR4-Not complex at the endoplasmic reticulum

19:20

Symposium dinner & informal poster session

Thursday, May 04

**Session 3: RNA transport**

Chair: Clemens Plaschka

09:00

**Karsten Weis** (ETH Zurich)

The role of DEAD-box ATPases in the regulation of ribonucleoprotein complex condensation

09:30

**Marlene Oeffinger** (Montreal Clinical Research Institute)

Nuclear mRNA metabolism drives selective basket assembly on a subset of nuclear pore complexes in *S.cerevisiae*

10:00

**Alexa McIntyre** (University of Zurich)

Phosphorylation controls mRNA retention via nuclear speckle cohesion during stress

10:20

*coffee break*

**Session 4: Development**

Chair: Andrea Pauli

10:50

**Geraldine Seydoux** (Johns Hopkins University)

Regulation of RNA granule assembly and function

11:20

**Nadine Vastenhouw** (University of Lausanne)

The spark of life. Initiating transcription in embryos.

11:50

*break*

12:10

**Valérie Hilgers** (Max Planck Institute of Immunobiology and Epigenetics)

Non-coding RNAs drive cytoplasmic compartmentalization and neuronal function

12:40

**Laura Arribas-Hernandez** (University of Copenhagen)

Growth control by an m6A/YTHDF axis in plants

13:00

*lunch break*

14:00

## PhD workshop pt.2

**Jasper van Lopik** (University of Cambridge)

Unistrand piRNA clusters are an evolutionary conserved mechanism to suppress endogenous retroviruses across the *Drosophila* genus

**Klara Kuret** (National Institute of Chemistry)

3'UTR mRNP repositioning triggers selective mRNA decay to drive rapid embryonic morphogenesis

**Marcos Iuri Roos Kulmann** (Institute of Molecular Genetics)

Activation of antiviral RNAi in mammals

**Franziska Hoerbst** (John Innes Centre)

True or false, heads or tails, SNP or error, mobile or not; And the implication for determining the mobility of mRNA

15:00

Poster session I

16:30

## PhD workshop pt.3

**Peter Wang** (Whitehead Institute)

Guide-RNA sequence determinants of Argonaute2 slicing kinetics and conformational dynamics

**Ivan Milenkovic** (Centre for Genomic Regulation)

Epitranscriptomic fingerprinting: tissue and cell type deconvolution from rRNA modification patterns

**Daniel Buendia Avila** (Gregor Mendel Institute for Molecular Plant Biology)

Everything Everywhere All at once? Understanding transposon silencing in the minute flowering plant *Wolffia*

17:15

end of meetings

Free evening for attendees

Friday, May 05

## Session 5: Small RNAs

Chair: Stefan Ameres

09:00

**Joshua Mendell** (UT Southwestern Medical Center)

New functions and regulators of noncoding RNAs in mammals

09:30

**Virginia Busetto** (Max Perutz Labs / University of Vienna)

MUT-7: a conserved exoribonuclease involved in sRNA biogenesis

09:50

coffee break

10:20

**Felipe Teixeira** (University of Cambridge) [EMBO Young Investigator Lecture]

Transposable element regulation and DNA damage response during germline development

10:50

**Katarzyna Kuduk** (Eclipse Bioinnovations) [sponsored talk]

Eclipse Bioinnovations: Accelerating the RNA genomics discoveries

11:05

**Ramesh Pillai** (University of Geneva)

RNA modifications in control of mammalian gene expression

11:35

Poster session II

13:00

lunch break

## Session 6: Translation control

Chair: Arturo Mari-Ordonez

14:00

**Yiliang Ding** (John Innes Centre)

RNA structure, a hidden regulator in living cells

14:30

**Milan Gerovac** (Institut für Molekulare Infektionsbiologie)

Immediate targeting of host ribosomes by jumbo phage encoded proteins

14:50

**Axel Innis** (Institut Européen de Chimie et Biologie)

The ribosome: when RNA meets protein to sense small molecules

15:20

**PhD award & closing remarks**

15:30

Light bites & socializing



## **The 17<sup>th</sup> MICROSYMPOSIUM on RNA Biology**

### **Our special thanks to:**

the Graphics team Tibor Kulcsar & Hannes Tkadletz, IMBA/IMP Facility Management, Michael Enzberger & the Cafeteria Team, Doris Nigischer & the Reception Team, GMI/ IMBA/IMP PR Departments, Lea Klement

*All speakers, session chairs, the tech support team and the many helpers that make this symposium a success!*