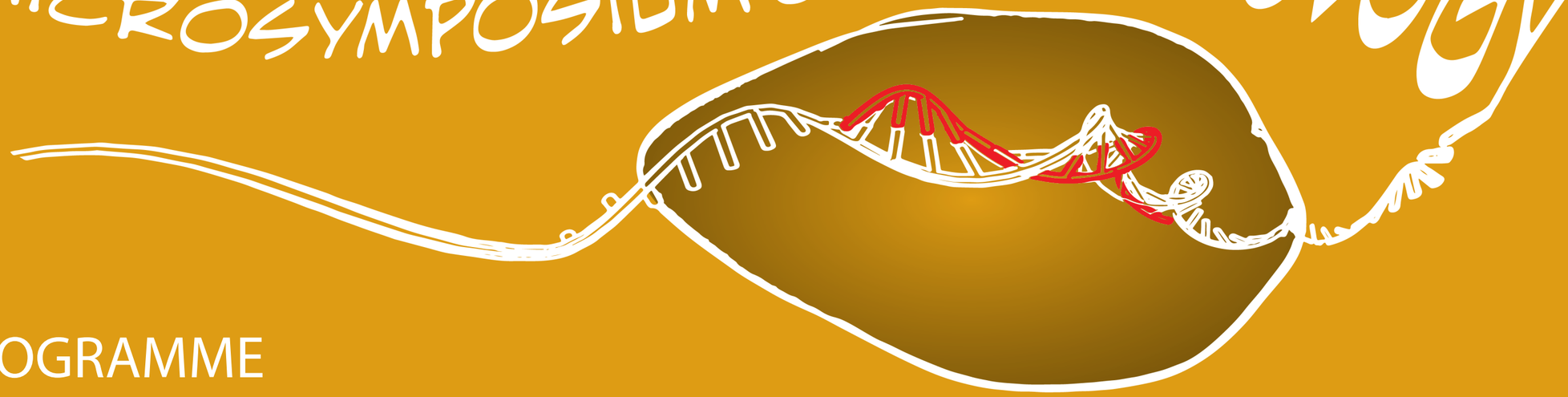
20. MICROSYMPOSIUM ON RNA BIOLOGY



PROGRAMME

20th Microsymposium on RNA Biology

Vienna BioCenter, June 17th - 19th 2026

IMBA Institute of Molecular Biotechnology of the Austrian Academy of Sciences
GMI GREGOR MENDEL INSTITUTE AUSTRIAN ACADEMY OF SCIENCES
IMP Research Institute of Molecular Pathology
MAX PERUTZ LABS VIENNA
Vienna BioCenter

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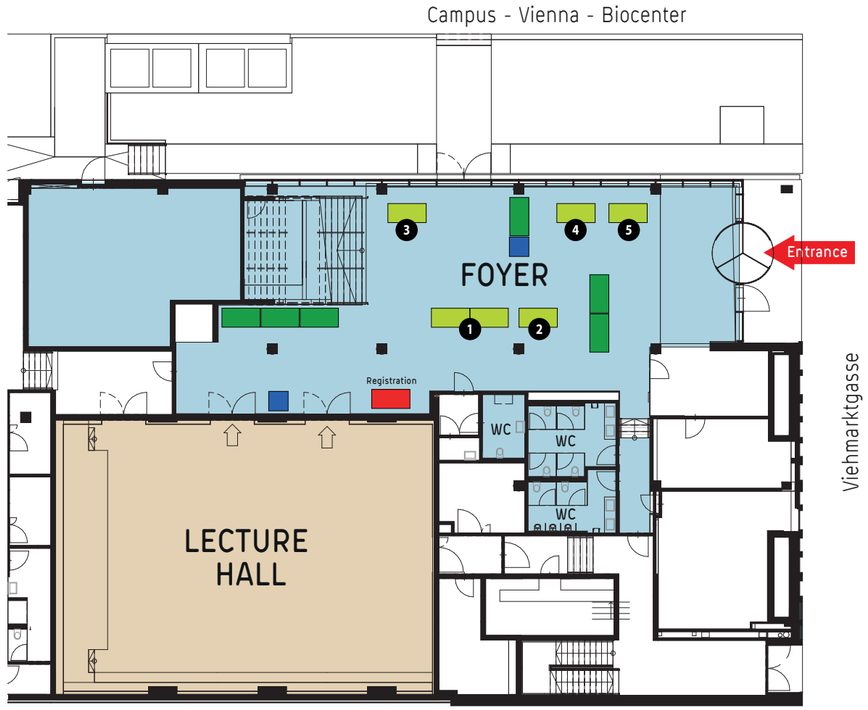
Seeing beyond

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Venue

Campus - Vienna - Biocenter



Registration
Buffet
Water

EXHIBITORS:
1 WuXi Biology
2 New England Biolabs
3 VWR & Thermo Fischer
4 MedChemExpress
5 Illumina

20th MICROSYMPOSIUM on RNA Biology

DAY 1 - Wednesday, June 17

09:00 **Registration**

10:00 **Welcome & introduction**

10:15 **Stephen Buratowski** (Harvard Medical School)
Single molecule microscopy reveals unexpected features of RNA pol II transcription

10:45 **Rippei Hayashi** (The John Curtin School of Medical Research)
Revised timing of splicing and chemical modifications during mammalian mRNA synthesis

11:15 **Lijuan Pang (WuXi)** – sponsor talk
Targeting a KCNA2 Loss-of-Function Variant with Gamper ASOs: Toward Personalized Therapy for Kv1.2 Channelopathies

11:30 coffee break

12:00 **Claudia Höbartner** (Julius-Maximilians-Universität Würzburg)
Posttranscriptional RNA modification using methyltransferase ribozymes

12:30 **Kevin Sabath** (IMP)
Recognition of nascent RNA 5′ termini by PPRC1 drives transcription of translation-associated genes

12:50 lunch break

PhD workshop pt.1

13:50 **Wiktor Antczak** (International Institute of Molecular and Cell Biology)
Poly(A) tail dynamics regulate ER-associated mRNA stability in a tissue-specific manner

14:10 **Ralf Jansen** (IMBA)
TFIIA cleavage by Taspase 1 enables transcription in heterochromatin

14:30 coffee break

15:00 **Annamaria Hlavata** (ISTA)
Structure of cytoplasmic RNA polymerase II

15:25 **Minseok Jeong** (Seoul National University)
Structural basis for chaperone-guided assembly of RNA-induced silencing complex

15:40 **Gaia Loucas** (University of Colorado Boulder)
dsRNA-Induced Foci as Nodes for Innate Immune Regulation

16:00 coffee break

16:30 **Marvin Tanenbaum** (Hubrecht Institute)
Decoding the sequence requirements for translation initiation

17:00 **Madalena Reimão Pinto** (Max Planck Institute of Molecular Cell Biology and Genetics)
Decoding the regulatory roles of 5′ UTRs during embryogenesis

17:30 Poster Session 1

19:30 symposium dinner at venue

DAY 2 – Thursday, June 18

09:00 **Christine Mayr** (Memorial Sloan Kettering Cancer Center)
3'UTR-3'UTR interactions drive protein heterodimerization in the Wnt pathway

09:30 **Narry Kim** (Seoul National University)
Viral and cellular regulation of mRNA stability

10:00 **Marko Jovanovic** (Columbia University)
Understanding RNA Binding Proteins through their interaction networks

10:30 **Annamaria Sgromo** (Max Perutz Labs)
Kinetic logic of uridylation-mediated RNA decay

10:50 coffee break

PhD workshop pt.2

11:20 **Daan Overwijn** (University of Basel)
PAIP1 links mRNA export to poly(A) binding protein remodeling and poly(A) homeostasis

11:40 **Gerald Raffl** (Max Perutz Labs)
Redundant nuclear RNA decay pathways cooperate to degrade excised introns

12:00 **Josef Roehsner** (IMP)
Deciphering regulation and functional conservation of dormant ribosomes

12:20 coffee break

12:50 **Mateusz Walter** (University of Vienna)
Mechanistic insights into DNA processing by Type I CRISPR-associated transposases

13:10 **Qiheng Xu** (Peking University)
Transcriptional and translational signatures of ovarian aging in Drosophila melanogaster based on wtransposable elements

13:30 group picture & lunch

14:30 **Aude Bernheim** (Institut Pasteur) EMBO Young Investigator Lecture
Evolution of immunity across domains of life

15:00 **Sung Chul Kwon** (The University of Hong Kong)
Molecular basis of target RNA cleavage by Cas13

15:30 **David Bartel** (Massachusetts Institute of Technology)
How the cell targets specific microRNAs for degradation

16:00 Poster Session 2

18:00 end of session

19:00 Reception at Wiener Rathauskeller

DAY 3 – Friday, June 19

09:30 **Igor Ulitsky** (Weizmann Institute of Science)
A TRIP through splicing

10:00 **Jack Bravo** (ISTA)
Self/non-self discrimination by bacterial Argonautes

10:20 **Claudia Köhler** (Max Planck Institute of Molecular Plant Physiology)
Mobile small RNAs controlling plant reproduction

10:50 coffee break

11:20 **Yijun Qi** (Tsinghua University)
A transposon-derived small RNA network modulates rice grain quality via epigenetic inheritance

11:50 **Kerstin Dörner** (University of Basel)
Selective recruitment of stalled mRNPs to nuclear speckles links splicing arrest to RNA quality control

12:10 **Daniel Benhalevy** (Tel Aviv University)
Cell cycle-informed studies of hnRNPC reveal Transcriptome Vulnerabilities of rapidly dividing cells

12:30 lunch break

13:30 **Claudia Kutter** (Karolinska Institutet)
A single strand for surplus: RNA control of lipid fate

14:00 **Virginia Busetto** (Max Perutz Labs)
Regulation of RNA cleavage and poly(UG)ylation by CPUG, a CPA-like complex

14:20 **Geraldine Seydoux** (Johns Hopkins University School of Medicine)
Anticorrelation between translation and RNA condensation as revealed by single-molecule analyses in C. elegans embryos

14:50 coffee break

15:20 **Witold Filipowicz** (FMI Basel)
Traversing the RNA World: lessons from the past and some ideas for the future

16:20 **Awards & closing remarks**



LIST OF POSTER PRESENTERS

Please note that although all posters will be exhibited at the same time, the presentations will take place on different days.
Please refer to the lists below for the day of your presentation.

POSTER - SESSION 1 -

Wednesday, June 17

No	Name	Title
1	Gert-Jan Hendriks	RNA BaseCode: Long-Read RNA Sequences with Short-Read Accuracy.
3	Stralina Eneh	miRNA signature predicts early and late relapse in ER+ breast cancer
5	Ying Huang	Cryo-EM structures reveal how RNA architecture drives msDNA biogenesis in retron Ec78
7	Tien-Hao Chen	A novel RNA polymerase for room-temperature transcription produces low levels of dsRNA and mRNA that is not immunostimulatory
9	Ashwaq Alanazi	Identifying The Roles of miR-17 in Ciliogenesis
11	Lívia Pelegrinová	Alu RNA conformational dynamics and their impact on ADAR-mediated RNA editing
13	Li Yi Cheng	Direct evidence for RNA G-quadruplex formation and DHX36-mediated resolution in living cells
15	Daniella Ugay	Transcription Factor GATA1 Binds RNA Through Its DNA-binding Domain
17	Xinning Dong	Adaptive evolution of A-to-I RNA editing and its impact on translational regulation in Drosophila
19	Simang Champramary	pingPongPI: A Web-Based Tool for Predicting piRNA-RNA Interactions
21	Zuzanna Szewczyk	Pathway Enrichment Analysis Identifies Key Biological Processes Regulated by miR-365a in a Stroke
23	Marina Andrade Tomaz	Stress-dependent sequestration of RNA and RNA Binding Proteins into autophagic vesicles: a subcellular study.
25	Renata Kovarik	SLAMseq: THE Method for High-throughput Kinetic RNA Sequencing
27	Antonio Biancolella	Revealing riboregulation of enzymes in a cell-free metabolic system
29	YUNYI DING	CRISPR/Cas9-based DNA editing and CRISPR/Cas13d-mediated RNA targeting strategy in the treatment of Huntington's disease mouse model BAC226Q
31	Zhiqing Li	Structural insights into RNA cleavage by PIWI Argonaute
33	Daniel Williams-Jones	Philthy: An End-to-End Structural Phylogenetics Platform for Exploring Protein Systems Across Chromosomes, Plasmids and Phages
35	Vladyslava Liudkovska	From stem cell to germ cell: exploring the dynamics of RNA splicing during cell fate transitions
37	Ammar Ahmedani	The Chromatoid Body Functions as an RNA Regulatory Condensate Coordinating piRNA, m^6A, and NMD Pathways
39	Jernej Imperl	Molecular basics of recognition between initiator tRNA and the VapC toxin
41	Amjadudheen VARIKKAPULAKKAL	Role of the conserved ubiquitin-like protein Hub1/UBL5 as a kinetic regulator of pre-mRNA splicing
43	Neža Vadnjal	Co-regulation of C-rich mRNAs encoding actin-related proteins
45	Dominik Handler	A Naïve RNA Sampling Core Enables Adaptive piRNA Specificity Against Transposable Elements
47	Megumu Mabuchi	EnGen® SpRY Cas9 - universal tools for DNA cleavage in vitro
49	Daphne Denaijere & Emma Bouvy	Exploring RNA–RNA interactions and regulation in bacteria
51	Aleksandra Domin	Novel roles of ADAR1-mediated RNA editing in lung cancer
53	Joan Marquez-Molins	Exploring the biogenesis and role of tRNA-derived small RNAs under stress in Arabidopsis thaliana
55	Ruaridh Lang	Gains via losses: dissecting metabolic roles of NEAT1 lncRNA isoforms
57	Changwei Yu	Nuclear piRNA silencing couples heterochromatin formation with co-transcriptional RNA decay
59	Jenni Rapakko	Mechanistic insights into RNP complex formation in clustered microRNA processing
61	Regina N. Nagy	Identification of Novel MicroRNA Candidates for Cardioprotection Against Ischemia-Reperfusion Injury in Rat and Human Cardiomyocytes
63	Kinga Kwiecien	The Role of miR-146a in Melanoma and Radiation Response
65	Lavinia De Pino	LINC01750-mediated regulation of KRAS 5'UTR as a blueprint for aptamer–antisense therapeutics
67	Pooja Mehta	Localisation of Wnt pathway determinants during Clytia hemisphaerica oogenesis
69	Anastasiia Suspitsyna	Molecular understanding of human vtRNA1-1 during tumorigenesis
71	Annaelle Cardinal	Designing mRNA constructs with enhanced stability in killifish embryos
73	Ana Godeša	Antisense oligonucleotides for transcriptional upregulation of tumor suppressor genes
75	Jorunn Vranken	miR-146a-5p acts to restrain glial cell reactivity in the enteric nervous system
77	Franziska K. Lorbeer	Deciphering the sequence encoding of transcriptional bursting using BARe-seq
79	Eleonora Melone	Unraveling microRNA dynamics in 3D human retinal organoids
81	Christian Steinmetzger	Structural Dynamics of A-minors Regulate Ribosomal Function
83	Lehar Zaidi	Prediction of Biochemical State-Shifts in Cellular and Molecular Systems: A Bio-vector-Based Systems Biology Model
85	Xinning Zhang	FOCAS: Transcriptome-wide screening of individual m6A sites functionally dissects epitranscriptomic control of gene expression in cancer
87	Katie L Gelder	Developing a cryo-CLEM pipeline to determine the high resolution structure of an RNA-scaffolded nuclear condensate

POSTER - SESSION 2 -

Thursday, June 18

No	Name	Title
2	Yulia Gonskikh	Cellular Localization of NSUN2-Mediated tRNA m5C Installation and Its Impact on Cognitive Function
4	Emmely A. Patrasso	Site-Specific Inhibition of Translation Initiation via 2′-O-methylation
6	Michal Krzyszton	Transcriptional activity during seed imbibition is conserved, robust and required for germination
8	Yong-Gui Gao	Structural and biochemical characterization of RNA modification enzyme
10	Daniel Mc Gonigle	Circulating MicroRNAs as Predictors of COVID-19 Severity and Frailty Progression
12	Peng Zou	Photoactivated RNA proximity labeling captures early dynamics of stress granule assembly
14	Amena Nabih	Maternal age modulates embryonic translation to influence early developmental competence in zebrafish
16	Shin-Chwen Bruce Yen	Protein A is a putative m5C-dependent RNA-binding protein essential for HIV-1 replication
18	Vytaute Boreikaite	Mechanism of spliceosome termination
20	Fränze Müller	Mapping RNA–Protein Interfaces and Structural Dynamics by Quantitative Cross-Linking Mass Spectrometry
22	Rubin Dasgupta	Conformations of microRNA in huamn Argonaute-2 by DNP-enhanced solid-state NMR
24	Rooma Mansoor	Function of Argonautes and associated microRNAs in gene regulation in Dictyostelium discoideum
26	Jacob I J Campbell	Genome wide profiling of RNA dynamics reveals specific subcellular localisation of stress induced RNA
28	Silvia Colucci	Stable RNA Binding by Transferrin Receptor 1 Points to an Endomembrane-Enriched Class of RNA-Tagged Proteins in Mammalian Cells
30	Roland G. Huber	RiNALMo - RNA language models allow us to understand RNA structure and function
32	Žiga Vičič	Dynamic RNA-binding protein engagement underlies post-transcriptional control of LINE1 in early development
34	Joseph Neos C. Cruz	Seeing the Message: Single-Molecule Tracing of mRNA Conformation in Cells
36	Moritz Maroschek	Beyond Immunity: A Type III-B CRISPR-Cas System as a Potential Posttranscriptional Regulator in a hyperthermophilic Archaeon
38	Nehir Altan	Exploring the Potential of Ribosome Profiling in Complex Communities
40	Lin Ma	The role of the chromatoid body in male germline transcriptome regulation
42	Alexandru Pascov	Analysis of Intronic Features Associated with Intron Stability in K562 Cells
44	Sokolowska Weronika	Radiation-Induced Changes in microRNA Biogenesis in B-cell lymphoma cells
46	Gibrán Pedraza Vázquez	Decapping the Transcriptome: Pan-Disease Expression and Regulation of NUDT2
48	Liangzhen Dong	Mild and ultrafast GLORI enables absolute quantification of m6A methylome from low-input samples
50	Hao Hu	Quantification and transcriptome profiling reveal abundant, dynamic, and translatable dephospho-CoA-capped RNAs
52	Magdalena Ożóg	Nascent RNA Dynamics in Trisomy 21: From Pluripotency to Neural Commitment
54	Emily Day	Role of TDP-43 Oligomerisation in Paraspeckle Regulation
56	Zachary Scurlock	Exploring the role of piwi-interacting RNAs (piRNAs) in malignant germ cell tumour pathogenesis
58	Nikolaos A.A. Balatsos	Regulatory Dynamics of Poly(A)-Specific Ribonuclease (PARN) Isoforms in Mesenchymal Cells
60	Jason Sims	Ribosome scarcity is bypassed by LARP1–dependent 5'TOP mRNA translation in Ewing sarcoma
62	Márta Szabó	Development and characterisation of a novel cardioprotective microRNA
64	Julia Kazalska	Role of miR-193b in Apoptosis-Related Pathways During Ischemic Stroke
66	Hana Marvanova	Dissecting the molecular rules of epigenetic licensing
68	Luka Gnidovec	Assessing the impact of nuclear speckle cohesion on RNA metabolism and cell physiology
70	Michelangelo Lassandro	RNA recognition and modification by the eukaryotic m6A writer complex
72	Şirin Elife Ceren	Intronic RNAs: Emerging Non-Coding Regulators in Triple-Negative Breast Cancer
74	Rajalekshmi Narayana Sarma	microRNA-based epigenetic control of meiotic recombination rate and hybrid male sterility in house mice
76	Malgorzata Rak	Regulatory role of miR-193b and miR-365a in neurovascular unit cells following ischemic stroke – preliminary study
78	Samuli O.M. Laasanen	Intergenerational effects of paternal HFD on germline RNAs and metabolic health can be altered by obesity treatment
80	Elodie Leroy	An architecture-driven m^5C writer: structural basis of substrate selection by human NSUN2
82	Michelle Gallei & Petra Hölzl-Müller	Innovations to improve scaling and automation for massive single cell PerturbSeq studies using magnetic- doped particles for free-scale particle-induced cell partitioning
84	Izabella Slezak-Prochazka	The emerging role of LINC00116/MTLN in lymphoma: lncRNA versus micropeptide functions
86	Shraddha Shinde	Understanding the Pace of Transcription: RNAPII Speed as a Regulator of Neurodevelopment
88	Ida Marie Astad Jentoft	Translation rewiring during embryonic diapause