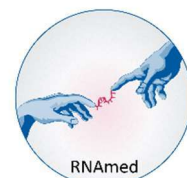


SFB RNA DECO
MID-TERM MEETING
THE FIRST FOUR YEARS



01. – 02. FEBRUARY 2024

INNSBRUCK



Confidentiality statement

Posters and presentations at this meeting are preliminary in nature and for internal discussions only. Please treat all information confidentially. Posting contents on any sort of media, taking pictures of presentations / posters are therefore explicitly prohibited.

Locations

Location	Adress
CCB	Innrain 80, Innsbruck
Rufi's Hotel	Fischnalerstraße 28
Villa Blanka	Weierburggasse 8

Thursday, 01st February 2024	
12:00-13:00	Arrival CCB – Sandwich Lunch
13:00-14:30	Session 1 Chair: Michael Jantsch (MUV)
13:00-13:05	Welcome: Michael Jantsch (Medical University Vienna)
13:05-13:30	Mark Helm (Johannes Gutenberg University Mainz) RNA modification damage
13:30-13:50	Laurin Flemmich (Group Micura, University of Innsbruck) RNA-mediated covalent RNA modifications
13:50-14:10	Raphael Plangger (Group Kreuz, University of Innsbruck) Towards the chemical synthesis of fully modified tRNAs
14:10-14:30	Yuliia Varennyk (Group Hofacker, University of Vienna) The effect of positional constraints in RNA secondary structure prediction with modified nucleotides
14:30-15:00	Coffee Break
15:00-16:40	Session 2 Chair: Alexandra Lusser (MUI)
15:00-15:20	Jörg Vogel (University Würzburg) RNAmed - future leaders in RNA-based medicine
15:20-15:40	Annamaria Sgromo (Group Ameres, University of Vienna) Deciphering Molecular Principles of Non-Coding RNA Quality Control: Systematic Profiling and Kinetic Modeling of RNA 3'-End Uridylation in Drosophila

15:40-16:00	Moritz Leitner (Group Martinez, Medical University Vienna) The role of the human tRNA ligase complex in mRNA processing and export	
16:00-16:20	Lukas Englmaier (Group Villunger, Medical University Innsbruck/CeMM) The role of tRNA thiolation in human disease	
16:20-16:40	Brent Cuvelee (Group Meister, University of Regensburg) Understanding the role of RNA modifying enzymes and their potential for therapeutic approaches	
16:40-17:10	Coffee Break	
17:10-19:05	Session 3	Chair: Matthias Schäfer (MUV)
17:10-17:35	Javier Caceres (University of Edinburgh) RNA-quality control of gene expression in health and disease	
17:35-17:55	Isabel Delazer (Group Lusser, Medical University Innsbruck) RNA methyltransferase Nsun2: a regulator of transcript stability?	
17:55-18:15	Michel Fasnacht (Group Moll, University of Vienna) Unveiling RatA's Role: Is it truly a Ribosome-Targeting Toxin in <i>Escherichia coli</i> ?	
18:15-18:35	Angela Marques (Group Jantsch, Medical University Vienna) Optimizing therapeutic site-directed RNA editing of Filamin A	
18:35-19:05	Teaser talks for poster session	
19:30-22:00	Dinner at Ruff's Hotel	

Friday, 02nd February 2024	
8:45-8:55	Poster set up
9:00-10:45	Session 4 Chair: Matthias Erlacher (MUI)
9:00-9:25	Eric Westhof (CNRS Institute of Molecular and Cellular Biology) Geometric molecular recognition in the ribosome
9:25-9:45	Artemis Saukin (Group Rossmann, Medical University Vienna) Ablation of pseudouridine 27/28 from mitochondrial tRNAs to study synthetic interactions with other modifications
9:45-10:05	Elena Mayer (Group Erlacher, Medical University Innsbruck) Impact of Varying mRNA Modification Levels on Protein Synthesis
10:05-10:25	Tom Rappol (Group Vilaro, Medical University Vienna) tRNA expression and modification landscapes, and their dynamics during zebrafish embryo development
10:25-10:45	Mathias Munschauer (Helmholtz-Institut für RNA-basierte Infektionsforschung, Würzburg) Fine mapping of SARS-CoV-2 RNA-protein interactions identifies negative-sense RNA binders and uncovers a role of NSP9 in priming viral RNA synthesis
10:45-10:55	Coffee Break
10:55-12:40	Poster Session
12:45-14:00	Lunch

14:10-15:50	Session 5	Chair: Michael Jantsch (MUV)
14:10-14:30	Andrea Tanzer (Medical University Vienna) Structure Context of RNA Modification Sites	
14:30-14:50	Nasim Sanadgol (Group Schäfer, Medical University Vienna) Adressing the asymmetry in tRNA fragment biogenesis	
14:50-15:10	David Michalik (Group Bernecky, ISTA) Cross-talk between RNA sequence, post-translational modifications and ATP hydrolysis in MDA5 signalling	
15:10-15:30	Christian Ramirez (Group Tebaldi, University of Trento) METTL3 inhibition modulates RNA structure, A-to-I editing and immune response in leukemia models.	
15:30-15:40	Kasra Honarmand Tamizkar (Group Jantsch, Medical University Vienna) The crosstalk between m ⁶ A and A-to-I modifications	
15:40-15:50	Closing remarks: Michael Jantsch (Medical University Vienna)	
18:30 – 21:00	Dinner at Villa Blanka	