

FWF Österreichischer
Wissenschaftsfonds



SFB RNA DECO

ANNUAL RNA RETREAT

12. – 13. SEPTEMBER 2024

VIENNA



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	Address
Medical University Vienna (MUW)	Schwarzspanierstraße 17 (HP small Histo lecture room), 1090 Vienna
Zum Gangl	Alser Straße 4/Hof 1, 1090 Vienna
Königshofer	Beethovengasse 2, 1090 Wien

Thursday, 12th September 2024	
12:00-13:30	Arrival MUW – Sandwich Lunch
13:30-15:25	Session 1 Chair: Michael Jantsch (MUW)
13:30-13:40	Welcome: Michael Jantsch (Medical University Vienna, Austria)
13:40-14:10	Erez Levanon (Bar-Ilan University, Ramat-Gan, Israel) Computational approaches for detection and quantification of RNA-editing
14:10-14:35	Kamila Nykiel (Group Lusser, Medical University Innsbruck, Austria) Engineering covalent small molecule–RNA complexes in living cells
14:35-15:00	Elisabeth Prager (Group Moll, University of Vienna, Austria) Moonlighting functions of the 4.5S RNA during regulation of protein synthesis?
15:00-15:25	Hamid Reza Mansouri Khosravi (Group Jantsch, Medical University Vienna, Austria) Structural consequences and cross-talk of A-to-I and m6A modifications
15:25-15:55	Coffee Break
15:55-16:40	Session 2 Chair: Alexandra Lusser (MUI)
15:55-16:20	Anja Wagner-Schrittwieser (Group Schosserer, Medical University Vienna, Austria) Ribosomal RNA modification dynamics in cellular senescence and organismal aging

16:20-16:45	Matthias Erlacher (Medical University Innsbruck, Austria) Modulating protein synthesis by tRNA and mRNA modifications
16:45-17:10	Anna Rocchegiani (Group Vilaro, Medical University Vienna, Austria) Impact of tRNA m ¹ G9 methylation in insulin-secreting β -cells
17:10-17:35	Danijela Radovanovic (Group Rossmann, Medical University Vienna, Austria) <i>In vivo</i> studies of the methylation at position 9 in human mitochondrial tRNAs
18:00-22:00	Dinner at Bierheuriger Zum Gangl

Friday, 13th September 2024		
9:00-10:20	Session 3	Chair: Matthias Erlacher (MUI)
9:00-9:30	<p>Stepanka Vanacova (Central European Institute of Technology (CEITEC), Masaryk University, Brno, Czech Republic) Protein-protein interactions reveal new functions for m⁶A RNA demethylases</p>	
9:30-9:55	<p>Christoph Mitteregger (Group Micura, University Innsbruck, Austria) RNA base pairing properties of inosine and 1-deazainosine and recognition of SAM analogs to riboswitches</p>	
9:55-10:20	<p>Thomas Spicher (Group Hofacker, University of Vienna, Austria) Free Energy Calculation of Modified Nucleotides by Molecular Dynamics Simulations</p>	
10:20-10:50	Coffee Break	
10:50-12:30	Session 4	Chair: Isabella Moll (University Vienna)
10:50-11:15	<p>Lukas Englmaier (Group Villunger, Medical University Innsbruck/CeMM, Austria) DREAM-PL syndrome: The pathophysiology of defective tRNA thiolation</p>	
11:15-11:40	<p>Kasra Honarmand Tamizkar (Group Jantsch, Medical University Vienna, Austria) Editing patterns in double-stranded RNAs camouflaging MDA5-activation</p>	
11:40-12:05	<p>David Michalik (Group Bernecky, ISTA, Austria) Role of ATP in MDA5 sequence recognition and its regulation by phosphorylations</p>	

12:05-12:30	Teaser talks for poster session	
12:30-13:45	Lunch	
13:45-13:55	Poster set up	
14:00-15:30	Poster Session	
15:30-16:00	Coffee Break	
16:00-17:25	Session 5	Chair: Elisa Vilardo (MUW)
16:00-16:25	<p>Marion Goldeck (Medical University Vienna / TU Wien, Austria) Click-activatable circular oligonucleotides for bioorthogonal translation</p>	
16:25-16:50	<p>Alessandro Marotto (Group Kreutz, University Innsbruck, Austria) Probing RNA modifications by NMR – the effect of methylated nucleotides on RNA annealing</p>	
16:50-17:15	<p>Livia Gruber (Group Schäfer, , Medical University Vienna, Austria) Structure-Function Analysis of specific RNA fragments</p>	
17:15-17:25	<p>Closing remarks: Michael Jantsch (Medical University Vienna, Austria)</p>	
18:00 –22:00	Dinner at Restaurant Königshofer	