

Tuesday, 27.04.2021

Spring School CRC902 2021



Time	Event	Speaker	Group	Title	Chair	Duration	Place
12:00	Welcome	Harald Schwalbe & MMM					Plenum
12:10	Kick-off lecture	James Saenz	Saenz	Lipids give RNA self-control	C. Sun & T. Matzel	45 min + 5 min	Plenum
	Session 1	Chair: Beatrix Suess		Riboswitches & Aptamers			
13:00	Talk 1	Leon Kraus	Suess	Selection of synthetic riboswitches and aptamers using RNA-capture-SELEX and <i>in-vivo</i> yeast screening		15 min + 3 min	Plenum
13:20	Talk 2	Patricia Broft	Schwalbe	In-Cell NMR Spectroscopy of Functional Riboswitch Aptamers in Eukaryotic Cells		15 min + 3 min	Plenum
13:40	Talk 3	Christoph Kaiser	Wachtveitl	Folding Dynamics of the Tetracycline Aptamer		15 min + 3 min	Plenum
14:00	Break					20 min	
	Session 2	Chair: Josef Wachtveitl		RNA folding dynamics			
14:20	Talk 4	Jenny Vögele	Wöhnert	Structural and dynamic effects of pseudouridine incorporation in RNA tertiary structure		15 min + 3 min	Plenum
14:50	Talk 5	Marijana Ugrina	Schwierz	Coarse-grained molecular dynamics simulation study on TERRA G-quadruplex folding		15 min + 3 min	Plenum
15:00	Talk 6	Lisa Pietrek	Hummer	Hierarchical ensembles of single-stranded RNA		15 min + 3 min	Plenum
15:20	Talk 7	Max Gauger	Prisner	Conformational dynamics of double-stranded RNA		15 min + 3 min	Plenum
15:40	Break					20 min	
16:00	Workshop	Patrick Frick	Frick	Sustainable Science as a business - How to green your lab	IMB	60 min	Zoom link
	Session 3	Chair: Michaela Müller-McNicoll		small RNAs			
17:10	Talk 9	Samoil Sekulowski	Trowitzsch	Molecular scissors maintaining a healthy brain		15 min + 3 min	Plenum
17:30	Talk 10	Nikita Verheyden	Krueger	Context dependent analysis of the miR-181 targetome		15 min + 3 min	Plenum
17:50	Feedback			End of the Day		10 min	Plenum

Zoom Plenum Spring School

<https://uni-frankfurt.zoom.us/j/97021277884?pwd=dmJhMlVRNlN2WVNk9ZeVJlYVZ09>

Meeting ID: 970 2127 7884

Passcode: 093678

Zoom Workshop:

Zoom link will be made available during the meeting

Wednesday, 28.04.2021

Spring School CRC902 2021



Time	Event	Speaker	Group	Title	Chair	Duration	Place
12:00	Welcome	Anna Wacker & MMM					Plenum
12:10	Guest lecture Students choice	Stephanie Kath-Schorr	Kath-Schorr	RNA functionalization via an expanded genetic alphabet	L. Weiß & T. Schamber	45 min + 5 min	Plenum
	Session 4	Chair: Alexander Heckel		mRNP regulation			
13:00	Talk 11	Janik Kaufmann	Heckel	Photo-tethered Antisense Oligonucleotides for RNA Regulation in Plants		15 min + 3 min	Plenum
13:20	Talk 12	Holger Heinemann	Tampe	How the ribosome recycling factor ABCE1 connects mRNA translation termination with a new round of initiation		15 min + 3 min	Plenum
13:40	Talk 13	Benjamin Arnold	MMM	Acute depletion of RBPs and 4SU-Seq - catching changes in the nascent transcriptome		15 min + 3 min	Plenum
14:00	Break					10 min	
	Session 5	Chair: Andreas Schlundt		RNA binding proteins and RNA-protein interactions			
14:10	Talk 14	Tobias Matzel	Schwalbe	Analysis of RNA binding of the ribosomal S1 protein via paramagnetic NMR		15 min + 3 min	Plenum
14:30	Talk 15	Lasse Oberstrass	Weigand	Specifying the rules for target recognition and regulation by Roquin proteins		15 min + 3 min	Plenum
14:50	Talk 16	Deniz Streit	Schleiff	Characterization of a factor regulating 5.8S rRNA maturation in plants		15 min + 3 min	Plenum
15:10	Talk 17	Karthi Dhamotharan	Schlundt	Deciphering mRNA target specificity of multi-domain RNA-binding protein IMP3 with integrative structural biology		15 min + 3 min	Plenum
15:30	Talk 18	Nathalie Meiser	Hengesbach	Substrate specificity of the human Mett13-Mett14 N6-Methyltransferase complex		15 min + 3 min	Plenum
15:50	Break					10 min	
	Session 6	Chair: Simon Trowitzsch		Visualization of RNA			
16:00	Talk 19	Robin Klimek	Heckel	Development of fluorescent probes for neuronal RNA localization		15 min + 3 min	Plenum
16:20	Talk 20	Nina Deußner	Heilemann	DNA-assisted super-resolution microscopy of proteins and mRNA		15 min + 3 min	Plenum
16:40	Guest lecture Students choice	Marvin Tanenbaum	Tanenbaum	Studying RNA regulation using live-cell single-molecule imaging	T. Shanmugan & E. Nüremberg-Goloub	45 min + 5 min	Plenum
17:30		Meet all three speakers		Interested PhD students, Postdocs and PIs		30 min	Zoom links
18:00	Feedback	Anna Wacker & MMM		Vote for the best talks, prizes and end of the day		10 min	Plenum

Zoom Rooms **James Saenz** <https://uni-frankfurt.zoom.us/j/94306770698?pwd=NE5ka0t1dzJMOWthUy9SR292S3pzd09> Meeting ID: 943 0677 0698, Passcode: 998994

Meet the speakers: **Stephanie Kath-Schorr** <https://uni-frankfurt.zoom.us/j/92394321300?pwd=WERZbitLeG9tZG9rNS9QbkRRZDk5dz09> Meeting ID: 923 9432 1300, Passcode: 204544

Marvin Tanenbaum <https://uni-frankfurt.zoom.us/j/99027770256?pwd=MjdDcEI5cjBSSEJ1SVVqWXcwKzBPUT09> Meeting ID: 990 2777 0256, Passcode: 169245