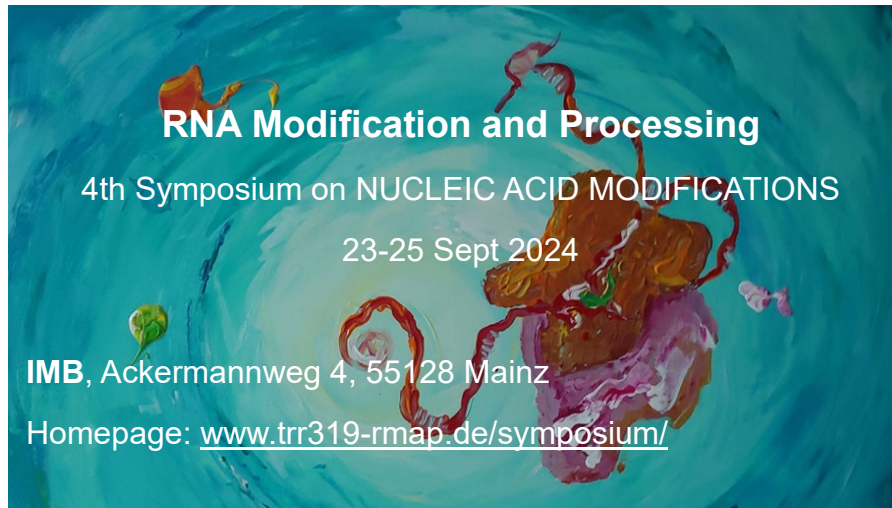


# SCHEDULE



In cooperation with:



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## Monday, 23<sup>rd</sup> September 2024

12:00 – 13:00 Registration and Lunch

13:00 – 13:15 Welcome by Mark Helm

13:15 – 15:00 Session I Chair: Kristina Friedland

13:15 – 13:45 **Ramesh S. Pillai** RNA modifications in control of mammalian gene expression

13:45 – 14:15 **Rupert Fray** Mutants of the plant m6A writer complex

14:15 – 14:30 **Miona Corovic** m6A sites in the coding region trigger translation-dependent mRNA decay

14:30 – 14:45 **Francesca Aguiló** Unveiling the dual roles of METTL3 in breast cancer tumorigenesis

14:45 – 15:00 **Konstantinos Stellos** Adenosine RNA modifications in post-transcriptional regulation of gene expression

15:00 – 15:30 Coffee Break

15:30 – 17:30 Session II Chair: Nina Papavasiliou

15:30 – 16:00 **Kristin Koutmou**  
PUS7 cytoplasmic localization directs a pseudouridine-mediated cellular stress response

16:00 – 16:30 **Schraga Schwartz** mRNA metabolism governs m6A deposition and dynamics

16:30 – 17:00 **Vivian Cheung** Decoding RNA Modifications in an eRNA: The Role of Sequential m6A to Abasic Sites in Regulating APOE Expression.

17:00 – 17:15 **Michael Jantsch** Editing patterns in double-stranded RNAs camouflaging MDA5-activation

17:15 – 17:45 Coffee Break

17:45 – 18:45 Keynote Chair: Mark Helm

17:45 – 18:45 **Chuan He** Chromatin regulation by RNA methylation

18:45 – 20:00 Postersession Fingerfood and beer

## Tuesday, 24<sup>th</sup> September 2024

09:00 – 10:55 Session III Chair: Christoph Dieterich

09:00 – 09:30 **Yuri Motorin** Challenges in RNA modification mapping by deep sequencing

09:30 – 10:00 **Eva Maria Novoa** Decoding the epitranscriptome at single molecule resolution: towards clinical applications

10:00 – 10:15 **Ann Ehrenhofer-Murray** Detection of queuosine, pseudouridine and other tRNA modifications by direct RNA sequencing

10:15 – 10:30 **Laurence Drouard** Acquisition of a new functional eukaryotic tRNA by hijacking a prokaryotic modification

10:30 – 10:45 **Stefanie Kaiser** Hunting for truth – towards more accurate RNA modification stoichiometry analysis

10:45 – 10:55 **Nicola Conci** rRNA Contamination in Ribo-Seq: Origin, Characteristics and Mitigation Strategies

10:55 – 11:30 Coffee break

11:30 – 12:30 Keynote Chair: Mark Helm

11:30 – 12:30 **Marina Rodnina** Non-canonical Decoding by the Ribosome

12:30 – 14:00 Lunch break and Postersession

14:00 – 15:45 Session IV Chair: Matthias Soller

14:00 – 14:30 **Zoya Ignatova** N6-methyladenosine modification in mRNA – the positions it may or may not affect mRNA utilization

14:30 – 15:00 **Tsutomu Suzuki** Expanding world of tRNA modifications in health and disease

15:00 – 15:15 **Klemens Wild** Comprehensive analyses of rRNA modifications in a thermophilic eukaryote

15:15 – 15:30 **Jirka Peschek** Structure of fungal tRNA ligase with RNA reveals conserved substrate binding principles

15:30 – 15:45 **Group photo**

16:00 – 16:30 **Departure excursion**

17:00 – 19:00 **Citadel tour**  
Windmühlenstraße, 55131 Mainz

19:00 – 23:00 **Dinner** (Eisgrubbräu)  
Weissliliengasse 1a, 55116 Mainz

## Wednesday, 25<sup>th</sup> September 2024

### 09:00 – 10:45 Session V Chair: Clement Carré

09:00 – 09:30 **Janusz Bujnicki** tba

09:30 – 10:00 **Valérie de Crécy-Lagard** Common Purpose, Diverse Solutions: Queuosine Precursor Transporters Across Species and Kingdoms

10:00 – 10:30 **Carine Tisné** Advances in the structural and functional understanding of m<sup>1</sup>A modifications

10:30 – 10:45 **Zeynep Baharoglu** tRNA queuosine modification reprograms translation in response to antibiotics in *Vibrio cholerae*

10:45 – 11:15 Coffee break

### 11:15 – 12:30 Session VI Chair: Alper Akay

11:15 – 11:45 **Stefan Bauer** RNA methylation and RNA glycosylation in self tolerance

11:45 – 12:15 **Donal O'Carroll** tba

12:15 – 12:30 **Rene Ketting** A novel 5'end processing enzyme matures piRNA precursors in the nematode *C. elegans*

12:30 – 14:00 Lunch Break and Postersession

### 14:00 – 15:30 Session VII Chair: Alessia Ruggieri

14:00 – 14:30 **Danny Nedialkova** Context-dependent essentiality of RNA modifications in human cells

14:30 – 15:00 **Jeppe Vinther** Conserved 5' metabolite RNA capping among hepaciviruses

15:00 – 15:15 **Marc Graille** RNA methyltransferase holoenzymes: implications in mRNA maturation and translation and in neurodevelopmental disorders

15:15 – 15:30 **Lukas Schartel** Selective RNA pseudouridylation using circular gRNA in designer organelles

15:30 – 16:00 Coffee break

### 16:00 – 17:30 Session VIII Chair: Kristina Friedland

16:00 – 16:30 **Sebastian Glatt** The molecular basis of tRNA selectivity by human pseudouridine synthase 3

16:30 – 17:00 **Olivier Duss** How processes cooperate with each other: Real-time tracking of m<sup>6</sup>A RNA modification and co-transcriptional rRNA processing

17:00 – 17:15 **Marie-Luise Winz** Yeast elongation factor homolog New1 protects specific mRNAs from no-go decay, probably modulating ribosomal RNA modification

17:15 – 17:30 **Andres Jäschke** NON-CANONICAL RNA CAPS – NEW CHEMISTRY, NEW FUNCTIONS

### Closure

19:00 **Dinner** RMaP PI + Speaker + Chair  
Bahnhofplatz 4, 55116 Mainz