

XI. Nucleinsäurechemietreffen

14. – 15. September 2023

Institut für Organische Chemie, Universität Würzburg

Programme

Thursday, September 14, 2023

10:30 – 12:00 Arrival and Registration

12:00 – 12:10 Opening

Session 1 - Chair: Hans-Achim Wagenknecht

12:10 – 12:45 **L1 Andreas Marx**
University of Konstanz
Discovery and properties of the first revealed vertebrate 5'-3' RNA ligase

12:45 – 13:20 **L2 Kathrin Breuker**
University of Innsbruck
Resolving the intricate binding of neomycin B to multiple binding motifs of a neomycin-sensing riboswitch aptamer by native top-down mass spectrometry and NMR spectroscopy

13:20 – 13:55 **L3 Alexander Heckel**
Goethe University Frankfurt/Main
The worst photoswitches ever

13:55 – 14:15 Coffee Break

Poster Flash Talks Chair: Claudia Höbartner

Rita Michenfelder – *Karlsruhe Institute of Technology* – **P35**

Jonas Wolf – *Goethe Universität Frankfurt* – **P2**

Amarnath Bollu – *Universität Münster* – **P62**

Jessica Felice Schmuck – *Universität Düsseldorf* – **P15**

Florian Seitz – *Axolabs GmbH* – **P12**

Damian Ploschik – *Bachem AG* – **P29**

Jory Lietard – *Universität Wien* – **P42**

Hermann Neitz – *Universität Würzburg* – **P32**

Franziska Welsch – *Universität Stuttgart* – **P3**

Sudeshna Manna – *Helmholtz Institute (HIRI) Würzburg* – **P38**

Cedric Gutfreund – *Universität Konstanz* – **P54**

Poster Session 1

Session 2 - Chair: Andrea Rentmeister

16:30 – 17:05 **L4 Philipp Holliger**
MRC Laboratory of Molecular Biology, Cambridge
Deep screening: massively parallel measurement of RNA, XNA, and protein interactions

- 17:05 – 17:40 **L5 Günter Mayer**
University of Bonn
De novo selection of click-modified aptamers
- 17:40 – 18:15 **L6 Stephanie Kath-Schorr**
University of Cologne
Two are not enough: Extra base pairs in nucleic acids and their applications
- 18:30 – 20:00 Barbecue Dinner
- 19:30 – 22:00 **Poster Session 2**
- 20:00 – 21:00 DNG Mitgliederversammlung

Friday, September 15, 2023

Session 3 - Chair: Christian Ducho

- 09:00 – 09:35 **L7 Guido H. Clever**
TU Dortmund
Supermolecular chemistry with DNA G-quadruplexes: Assembly, recognition and catalysis
- 09:35 – 10:10 **L8 Kerstin Göpfrich**
Center for Molecular Biology of Heidelberg University
Overriding the central dogma: Engineering a synthetic model cell
- 10:10 – 10:35 Coffee Break

Session 4 - Chair: Michael Göbel

- 10:35 – 11:10 **L9 Thorsten Stafforst**
University of Tübingen
Profiling the interactome of oligonucleotide drugs by proximity biotinylation
- 11:10 – 11:45 **L10 Harald Schwalbe**
Goethe University Frankfurt/Main
Understanding RNA dynamics to target RNA
- 11:45 – 12:10 Coffee Break

Session 5 - Chair: Chris Meier

- 12:10 – 12:45 **L11 Sabine Müller**
University of Greifswald
Ribozyme activity in vesicles and two ribozyme folds form one RNA
- 12:45 – 13:20 **L12 Elmar Weinhold**
RWTH Aachen
DNA labelling for optical genome and epigenome mapping
- 13:25 Poster Awards and Closing Remarks