



- Programm -

Sonntag, 02.10.2022

18:30 Uhr "Meet and Greet" für TeilnehmerInnen, die am Vorabend ankommen,
Foyer des Hauptgebäudes - Abendessen

Montag, 03.10.2022

10:00-10:40 Methoden-Vortrag I: Prof. Alexander Heckel, Universität Frankfurt
Einführung in die Vortrags- und Diskussionstechnik

10:50-11:10 Hsuan-Ai Chen, Würzburg
Identification of deoxyribozymes for analysis of RNA modification status

- Kurze Pause -

11:25-11:55 Franziska Welsch, Stuttgart
Enzyme-free copying of RNA sequences

12:05-12:25 Robin Klimek, Frankfurt
New chemical tools to study RNA distribution in neuronal cells

12:35 Kurzvorstellung Poster (bitte 1 Slide pro Poster vorbereiten)

13:00 - Mittagessen -

14:30-15:10 Methoden-Vortrag II: Prof. Dr. Claudia Höbartner, Univ. Würzburg
Antiviral nucleotides

15:20-15:40 Armin Durmisevic, Dortmund
Chemical targeting, modification and protein binding of cancer-relevant DNA G-quadruplexes

- Kaffee und Kuchen -

16:30-17:10 Methoden-Vortrag III: Prof. Dr. Hendrik Dietz, TU München
Solving the structure of large DNA assemblies by cryo-EM

17:20-17:40 Lukas Neu, Köln
Spin Labeling of RNA

18:00 - Bachem BBQ, anschließend Postersession -

20:00 Mitgliederversammlung der DNG (für Mitglieder und Gäste)

Dienstag, 04.10.2022

- 09:00-09:40 Methoden-Vortrag IV: Dr. Stefan Marschner, Bachem AG,
Bubendorf, Schweiz
Industrial synthesis of oligonucleotides
- 09:50-10:10 Catharina Kost, Frankfurt
*Synthetische Anionenrezeptoren mit nucleophiler Seitenkette:
Spaltung von Phosphodiestern und von DNA*
- Pause -
- 10:40-11:00 Felix Wenzek, Greifswald
Reductive charge transfer in RNA
- 11:10-11:30 Philipp Geng, Karlsruhe
*Two-factor-quenched tetrazine-modified cyanine-styryl dyes for
bioorthogonal and fluorogenic labelling of DNA*
- 11:40-12:00 Bayram Terzi, Münster
*Synthesis of 5'-cap analogs and enzymatic modification of the poly(A)
tail of mRNA*
- 12:10 Concluding Remarks
- 12:30 - Mittagessen -
- ca. 13:00 Ende der Veranstaltung

Angemeldete Poster

Larita Luma AK Heckel *Development of hemithioindigo-C-nucleosides for photoregulation of oligonucleotide duplex stabilisation*

Vanessa Hanff AK Heckel *Visible light-activatable Q-dye molecular beacons for long-term mRNA monitoring in neurons*

Marlen Sahlbach AK Heckel *Development of red-light activatable oligonucleotides as therapeutic agents*

Fabian Sinsel AK Heckel - *tba* -

Robert Dörrenhaus AK Kath-Schorr *C-Glycosidic bonding of unnatural nucleobases*

Philip Wagner AK Kath-Schorr *Nucleotide photoswitches*

Hannah Kuhlemann AK Müller *Photochemical inhibition of a hairpin ribozyme*

Konstantin Isenberg AK Höbartner *Studies toward nucleic acid-mediated fluorescence activation*

Anna Heib AK Ducho *Towards Lipophilic Prodrugs of Antisense Oligonucleotides*

Charlotte Waldhelm AK Wagenknecht *Perylene-3,4,9,10-tetracarboxylic acid bisimide dye as a detection method for N⁴-adenine methylation in DNA and RNA*

Andreas Schmidt AK Wagenknecht *Synthesis of a hybridization sensitive DNA base surrogate with dual fluorescence*

Franziska Welsch AK Richert *Bridging the gap between chain formation and genetic copying of RNA*