



- Programm -

Donnerstag, 22.09.2016

Session I

- 10:00-10:30 Methoden-Vortrag I: Prof. Alexander Heckel, Universität Frankfurt
Einführung in die Vortrags- und Diskussionstechnik
- 10:40-11:00 Alexander Rabe (AK Vogel, U.S.D. Odense)
Programmable fusion of biomembranes

- Kleine Pause -

- 11:20-11:40 Ruth Raetz (AK Müller, U. Greifswald)
Synthese von Trinucleotidsynthons an einer festen Phase
- 11:50-12:10 Markus Kramer (AK Richert, U. Stuttgart)
Synthetic approaches to cross-linked DNA origami structures

- Mittagessen, anschließend Postersession -

Session II

- 14:30-15:00 Methoden-Vortrag II: Prof. Claudia Höbartner, Universität Göttingen
Finding the needle in the haystack: from random single strands to useful DNA catalysts
- 15:10-15:30 Anna Schüller (AK Mayer, Uni Bonn)
Activation of the glmS ribozyme confers bacterial growth inhibition
- 15:40-16:00 Patrick Seyfried (AK Heckel, U. Frankfurt)
Neue Architekturen für lichtaktivierbare Oligonukleotide

- Kaffee-Pause -

- 16:30-16:50 Margot Schikora (AK Mokhir, U. Erlangen-Nürnberg)
Development of electron-transfer reactions mediated by nucleic acid templates
- 16:50-17:20 Methoden-Vortrag III: Prof. Claus Seidel, Universität Düsseldorf
Nucleic acids analyzed by Förster Resonance Energy Transfer (FRET) measurements

18:00-19:00 Kurzvorstellung der Poster (1 Slide pro Poster)

- Abendessen -

20:00 Mitgliederversammlung der DNG (für Mitglieder)

Freitag, 23.09.2016

Session III

- 09:00-09:20 Damian Ploschik (AK Wagenknecht, K.I.T.)
Enzymatic synthesis and bioorthogonal labeling of cyclopropene modified oligonucleotides
- 09:30-09:50 Jan-Erik Hornung (AK Göbel, U. Frankfurt)
Sequenzspezifische Alkylierung von RNA durch photolabil geschützte Chinonmethide

- Kleine Pause -

- 10:10-10:40 Methoden-Vortrag IV: Dr. Patrick Baumhof (CureVac AG, Tübingen)
Sequence-engineered mRNA enables effective protein therapies
- 10:50-11:10 Alexander Finke (AK Marx, U. Konstanz)
Functional DNA networks as mimicry of the extracellular matrix
- 11:20-11:40 Giuseppe Randelli (AK Höbartner, U. Göttingen)
Fluorescence activation by RNA aptamers

11:50 Abschlussdiskussion

12:00 - Mittagessen -

13:00 Ende der Veranstaltung

Angemeldete Poster

1. Melissa Meng (AK Ducho, U. Saarbrücken)
Properties of DNA oligonucleotides with a partially zwitterionic backbone structure
2. Malte Rosenthal (AK Mayer, U. Bonn)
Click-SELEX for the identification of tetrahydrocannabinol-recognizing clickmers
3. Christian Steinmetzger (AK Höbartner, U. Göttingen)
A family of fluorogenic chromophores for RNA aptamers
4. Christoph Bickmann (AK Wagenknecht, K.I.T.)
Electrochemical properties of modified DNA via STM measurements
5. Linda Antusch (AK Wagenknecht, K.I.T.)
Distance dependency of thymine-thymine dimer formation in benzophenone-modified DNA
6. Yannic Fritz (AK Wagenknecht, K.I.T.)
Covalent and non-covalent modified DNA as light-harvesting system
7. Ulrike Reisacher (AK Wagenknecht, K.I.T.)
Copper-free, bioorthogonal and postsynthetic labeling of nucleic acids
8. Damian Ploschik (AK Wagenknecht, K.I.T.)
Enzymatic synthesis and bioorthogonal labeling of cyclopropene modified oligonucleotides
9. Marilynne Sosson (AK Richert, U. Stuttgart)
The effect of leaving groups on binding and reactivity in enzyme-free copying of DNA and RNA
10. Andreas Finke (AK Marx, U. Konstanz)
Functional DNA networks as mimicry of extracellular matrix
11. Josefine Kahlstatt (AK Heckel, U. Frankfurt)
Spiropyran photoswitches in RNA
12. Patricia Müller (AK Heckel, U. Frankfurt)
Development of light-inducible anti-miRs as therapeutic agent to prevent infarct-related myocardial dysfunction