

Scientific Program

Monday, 29.7.2019

- 9:00-10:30 **M. Hocek** (Prague)
Enzymatic synthesis of base-modified nucleic acids
- 10:30-11:00 *Coffee break*
- 11:00-12:30 **P.I. Pradeepkumar** (Mumbai)
G-Quadruplexes (G4s): Structure, Function and Modulation
- 12:30-14:00 *Lunch*
- 14:00-15:30 **C. Kisker** (Würzburg)
Insights into the nucleotide excision repair pathway
- 15:30-15:50 *Coffee break*
- Short talks**
- 15:50-16:10 **Renata Kasprzyk**, University of Warsaw
Development of binding and hydrolytic activity of mRNA cap-recognising proteins using fluorescent turn-on probes (P8)
- 16:10-16:30 **Elisabeth Mairhofer**, University of Innsbruck
3-Deazapurine nucleosides and their application in mechanistic ribozyme studies (P33)
- 16:30-16:50 **Fabian Lang**, Karlsruhe Institute of Technology
Fluorescent probes for the detection of endogenous miRNA in human tissue (P15)
- 16:50-17:10 **Erika Schaudy**, University of Vienna
Enzymatic reactions on high-density DNA microarrays – towards conversion to their RNA complements (P23)
- 17:10-17:30 **Jikang Zhu**, University of Greifswald
Design of a hairpin ribozyme derived spliceozyme (P29)

Tuesday, 30.7.2019

- 9:00-10:30 **R. Micura** (Innsbruck)
Elucidation of ribozyme folding and mechanism (L4)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 **G. Mayer** (Bonn)
Expanding the chemical diversity of nucleic acid libraries for in vitro selection

- 12:30-14:00 *Lunch*
- 14:00-15:30 **C. Beisel** (Würzburg)
CRISPR biology and technologies
- 15:30-15:50 *Coffee break*
- 15:30-18:00 Poster session I (even numbers)

Wednesday, 31.7.2019

- 9:00-10:30 **S.G. Srivatsan** (Pune)
Probing Mood (Structure) Swings of Non-Canonical Nucleic Acid Motifs
- 10:30-11:00 *Coffee break*
- 11:00-12:00 **J. Seibel** (Würzburg)
Bioorthogonal conjugation reactions with biopolymers
- 12:00-13:30 *Lunch*
- 13:30-14:15 K&A Presentation of DNA/RNA Synthesizer
- 14:30-16:00 Workshops

Thursday, 1.8.2019

- 9:00-10:30 **H.-A. Wagenknecht** (Karlsruhe)
Nucleic acid chemistry with light
- 10:30-11:00 *Coffee break*
- 11:00-12:30 **C. Kreutz** (Innsbruck)
Structure and dynamics of nucleic acids by solution NMR spectroscopy
- 12:30-14:00 *Lunch*
- 14:00-15:30 **R. Smyth** (Würzburg)
Experimental determination of RNA structure
- 15:30-15:50 *Coffee break*
- 15:30-17:30 Poster session II (odd numbers)

Friday, 2.8.2019

- 9:00-10:30 **C. Höbartner** (Würzburg)
Nucleic acid chemistry with DNA as a catalyst
- 10:30-11:00 *Coffee break*

Short talks

- 11:00-11:20 **Dhamodharan Venugopal**, Okinawa Institute of Science and Technology
Mutational and kinetic profiling of a deoxyribozyme by high-throughput sequencing (P44)
- 11:20-11:40 **Raphael Plangger**, University of Innsbruck
A secondary structure equilibrium in the group II intron domain 6 for reaction pathway selection (P20)
- 11:40-12:00 **Satendra Kumar**, IIT Bombay
Synthesis and biophysical evaluation of G-quadruplex stabilizing and i-motif destabilizing ligands (P14)
- 12:00-12:20 **Ivana Ivancova**, Charles University in Prague
Squaramate-modified nucleotides and DNA for specific cross-linking with Lys-containing peptides and proteins (P13)
- 12:20-12:40 **Jielin Chen**, University of Bordeaux
How to design high-activity G-quadruplex/hemin DNAzymes (P1)
- 12:40-13:00 Concluding Remarks