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

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-Deazapurie 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
Enzymatic reactions on high-density DNA microarrays – towards conversion to their RNA complements (P23)

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