

From Ensembles to Single-Molecule Analysis – Modern Methods of RNP Analysis

Monday, 08.10.2018 <i>Quantifying Molecular Interactions</i>	Tuesday, 09.10.2018 <i>Single-Molecule FRET Analysis of RNPs</i>	Wednesday, 10.10.218 <i>Single-Molecule RNA FISH</i>	Thursday, 11.10.218 <i>RNA Protein Interaction Studies – RNA Interactomes</i>	Friday, 12.10.2018 <i>Structure Probing of RNPs Using Tethered Enzymes</i>
8:30-8:45, H 53 Welcome: Thomas Dresselhaus				
8:45-9:45, H 53 Expert lecture: Dr. Agatha Korytowski (Malvern Instruments GmbH): Interaction Analyses with MicroCal ITC- The Gold Standard	8:30-9:30, H 53 Expert lecture: Prof. Dr. Ralf Seidel (Universität Leipzig): Studying interactions of proteins with ribonucleic acids using mechanical forces	8:30-9:30, H53 Expert lecture: Dr. Stefanie Nunes Rosa (SLU, Uppsala): Single Molecule RNA FISH: quantitative applications for gene expression analysis	8:30-9:30, H 53 Expert lecture: Dr. Rastislav Horos (EMBL Heidelberg): The small non-coding vault RNA1-1 acts as a riboregulator of autophagy	8:30-9:30, H 53 Expert lecture: Bruno Sargueil (CNRS / University Paris Descartes): RNA structure probing – Applications to the study of viral mRNA translation
9:45-10:45, H 53 Method Lecture: Gernot Längst: Quantifying molecular interactions by Microscale Thermophoresis	9:30-10:30, H 53 Method lecture: Dina Grohmann: Biological mechanisms, one molecule at a time	9:30-10:30, H 53 Method lecture: Andrea Bleckmann: RNA in situ hybridization technics: from colorimetric tissue staining to single RNA molecule detection	9:30-10:30, H 53 Method lecture: Dr. Joel Perez-Perri (EMBL Heidelberg): Discovery of RNA-binding proteins and characterization of their dynamic responses by enhanced RNA interactome capture	9:30-10:30, H 53 Method lecture: Jorge Perez Fernandez: Structure probing of RNPs with tethered MNase