



SFB1032 Annual Workshop 2022

Tuesday, October 11 – Wednesday, October 12

Scholastika

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Akademischer Gesangverein München, Ledererstraße 5, 80331 München

Tuesday, October 11

09:00	Joachim Rädler	Welcome
Area A: Spatio-temporal control in nanoscale reaction networks		
09:10	A02 – Simmel group Matthias Vogt	Energy landscapes of rotary DNA origami devices determined by fluorescence particle tracking
09:35	A03 – Gerland group Stephan Kremser	Robust and tunable pattern formation with locally communicating subunits
10:00	A04 – Braun group Adriana Serrão	Selection of prebiotic oligonucleotides by cyclic phase separation
10:25	A05 – Carell group Felix Müller	The RNA-Peptide World
10:50	<i>Coffee Break</i>	
11:20	A06 – Liedl group Tim Liedl / Joe Tavacoli	Microswimmers and DNA origami single-crystals
11:45	A07 – Nickel group Bert Nickel	Silicification of DNA origami and photoswitching of azolipid membranes
12:10	A06 – Heuer-Jungemann group Anna Baptist / Moritz Weck	DNA origami in materials science and biomedicine
12:35	<i>Lunch</i>	
14:15	A08 – Lohmüller group Jinhua Zhang	Plasmonic Nanosensor for Monitoring the Photoswitching of Supported Photolipid Bilayer Membranes
14:40	A09 – Schwille group Maria Reverte Lopez	Actomyosin ring positioning and GUV blebbing mediated by the MinDE system
15:05	A13 – Tinnefeld group Ece Büber	A FRET based DNA origami tool for particle curvature sensing
15:30	<i>Coffee Break</i>	

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16:00	A11 – Jungmann group Kimberly Cramer	Investigating bacterial cell division using DNA-PAINT microscopy
16:25	A12 – Schneider group Corinna Kersten	RNA aptamers as sensors for the miR200-family of micro RNAs
16:50	Jered B. Haun University of California, Irvine	Controlling nanoparticle adhesion dynamics for selective targeting of diseases
17:30	<i>End</i>	
18:30	<i>Dinner (at your own expense) at Schneider Bräuhaus, Tal 7, 80331 München</i>	

Wednesday, October 12

09:00	Alex Evilevitch Lund University	Pressurized DNA state inside herpes capsids – a novel antiviral target
Area B: Nanosystems controlling cellular dynamics		
09:40	B03 – Lamb group Irene Gialdini / Fabian Knechtel	Spectroscopic methods to study nanoparticles stability and water absorption
10:05	B01 – Rädler group Emily Brieger	Exploring cell-cell interactions inferred from trajectories in two-side arrays
10:30	<i>Coffee Break</i>	
11:00	B04 – Wagner group Ernst Wagner/ Andreas Roidl	Ernst Wagner: (micro)RNA and its delivery / Andreas Roidl: Controlling cellular movement with microRNA-200c
11:40	B08 – Zahler group Christina Jayachandran	Mechanical aspects of angiogenesis
12:05	A10 – Bausch group Samuel Randriamanantsoa	Spatiotemporal dynamics of self-organized branching in pancreas-derived organoids
12:30	<i>Lunch</i>	
14:00	B01 – Veigel group Markus Kröss	The role of myosin VI and its regulation in cell migration
14:25	B09 – Thorn-Seshold Philipp Mauker/ Benedikt Baumgartner	Assisted singlet-manifold photoswitching for NIR control of ion channels and lipid membranes and controlling cell membrane permeability with chemical strategies
14:50	B11 – Engelke group Hanna Engelke	Biomimetic mineralization of iron-fumarate nanoparticles for protective encapsulation and intracellular delivery of proteins
15:15	B02 – Frey group Erwin Frey	Geometry-induced pattern formation
15:40	<i>Coffee Break</i>	
16:15	Friedhelm Serwane LMU	Retina Organoid Biophysics
16:55	General Assembly	Internal discussions
17:30	<i>End</i>	