SFB1032 and ESco-DNA Workshop 2015

Altötting, February 2nd - 5th, 2015

Monday, 2.2.		Tuesday, 3.2.		Wednesday, 4.2.		Thursday, 5.2.
ESco-DNA-Meeting	09:00	*Arrival SFB1032*				
	09:30	Opening: Joachim Rädler/Friedrich Simmel				
		DNA-Nanotechnology		***Cells interacting with nanostructures***		***Nanoagents and imaging***
	09:45	**Kurt Gothelf** DNA Programmed Assembly of Polymers and other Materials.	09:00	**Catherine Villard** In vitro manipulation of brain cells	09:00	**Ralf Jungmann** Approaching the limit: Multiplexed Super-Resolution Microscopy
	10:30	**Björn Högberg** Building molecular tools for biomedical research using DNA-origami	09:45	**Stefan Zahler (B08)** Controlling cellular function by structured surfaces: "Artificial angiogenesis"	09:25	**Iain MacPherson** Mouse trials of a DNA nanostructure-scaffolded HIV mimotope vaccine
	11:15	**Jonathan Bath** Guiding the folding pathway of DNA origami	10:10	**Thomas Bein (B05)** Mesoporous Nanoconstructs for Controlling Cell Functions	09:40	**Markus Rehberg (B10)** Behavior of nanoagents in complex 3D microenvironments and their impact on immune cell function
	12:00	**Friedrich Simmel (A02)** Diffusive transport on DNA nanostructures	10:35	*Coffee Break*	10:05	*Coffee Break*
				Cells interacting with nanostructures		***Artificial reaction networks***
			11:00	**Tanja Weil** Engineering Bioarchitectures at the nanometer scale	10:30	**Geoffrey Baldwin** An integrated workflow for synthetic biology: from parts to systems and the evolution of new function
			11:45	**Dirk Trauner (B09)** Photolipidomics	11:15	**Ulrich Gerland (A03)** Spatially orchestrated reaction kinetics
					11:40	**Hermann Gaub (A01)** From Genes to Protein Mechanics on a Chip
	12:30	*Lunch Break/city walk*	12:15	*Lunch/city walk*	12:00 13:00	*Lunch* *Departure*
		Synthesis of nanoagents		***Information processing systems***	14:00	***Strategy meeting***
	14:00	**Ulf Diederichsen** Mimicking the SNARE protein mediated membrane fusion machinery	14:00	**Yannick Rondelez** Building in vitro molecular systems		
	14:45	**Patricia Horcajada** Engineered-surface metal-organic frameworks: an approach to tune their biodistribution	14:45	**Dieter Braun & Georg Urtel (A04)** Ecosystems on the Nanoscale		
				SFB-presentations		
	15:30	**Thomas Carell (A05)** Post-it base pairs and siRNA nano agents	15:10	**Alex Maier (A06)** DNA-based Nanoagents		
			15:25	**Philipp Heissig (B04)** MicroRNA200c and nanoagent conjugates		
	16:00	*Coffee Break*	15:40	*Coffee Break*	16:00	*Departure*
		Cell migration in artificial networks		***SFB-presentations***		
	16:30	**Dennis Discher** Self' versus 'Foreign' & Soft versus Stiff - Forced nano/micro motility decisions in Survival & Differentiation	16:10	**Theo Lohmüller (A08)** Plasmonic sensing and manipulation of lipid membranes.		
	17:15	**Florian Rehfeldt** Matrix Mechanics Matters for Stem Cells - Impact on Cytoskeleton, Nucleus and Motility	16:25	**Constantin Nowald (B07)** Hydrogels for wound treatment and triggered drug delivery		
	18:00	**Joachim Rädler (B01)** Towards micropattern-controlled phenotypic studies of cells interacting with nanoagents	16:40	**Don Lamb (B03)** Wanted: Dead or Alive. Fluorescence Methods for spying on Nanoagents		
			16:55	**Jacob Halatek (B02)** Are Min waves in vitro the same as Min oscillations in vivo?		
			17:10	**Bert Nickel (A07)** Conformational changes in lipids and DNA: nanoagents in the light of x-rays		
			17:25	**Simon Kretschmer (A09)** Engineering the self-organization of bacterial cell division regulators		
	19:00	*Dinner*		***Postersession with dinner buffet***		