Day	Time CET	Seminar program	
Day 1: Wednesday, March 17, 2021	13:45-14:00	Welcome **Plenary session 1** Chair: Eva Sevcsik	
	14:00-14:35	**P. Mendes**: Tuning and switching the binding properties of bio-interface materials	
	14:35-15:10	**K. Salaita**: Repurposing nucleic acids as high-resolution force sensors to study mechanotransduction in living cells	
	15:10-15:25	**A. Cavalcanti-Adam:** Nanopatterned materials for receptor crosstalk in cell adhesion	
	15:25-15:40	**B. Baird:** Micropatterned surfaces to investigate assembly of cellular signaling machinery	
	15:40-16:10	Break, Coffee Tables, Speakers' Tables	
		Single molecule architectures via DNA origami nanotechnology Chair: G. Leggett	**3D Nanostructures** Chair: J. Piehler
	16:10-16:45	**M. Palma:** DNA origami nanoarrays for multi-valent cellular investigations with single-molecule control	**B. Cui:** The role of membrane curvature at the nano-bio interface
	16:45-17:00	**C. Niemeyer:** Multiscale DNA systems to investigate living cells	**J. Moran Mirabal:** Shrink and Wrinkle: Structuring of thin films on thermo-responsive substrates for the study of cell-surface receptors
	17:00-17:15	**J. Hellmeier**: DNA origami demonstrate the unique stimulatory power of single pMHCs as T-cell antigens	**K. Martinez:** Stable cytosolic access of high-aspect-ratio nanostructures for novel biological applications
	17:15-20:00 (open end)	Poster Session 1, Coffee Tables, Speakers' Tables	
		Plenary session 2 Chair: Sebastian Springer	
Day 2: Thursday, March 18, 2021	14:00-14:35	**C. Prinz:** Nanostructures for probing and transfecting living cells	
	14:35-15:10	**M. Sheetz:** Mechanical stresses kill tumor cells	
	15:10-15:25	**H. Cai:** Nanoengineered biomimetic interfaces for mechanobiology study	
	15:25-15:40	**E. Lemma:** Selective cell adhesion on 3D scaffolds via photo-induced DNA functionalization	
	15:40-16:10	Break, Coffee Tables, Speakers' Tables	
		Spatial, mechanical and chemical cues Chair: G. Schütz	**Tunable biomaterials** Chair: E. Martinez Fraiz
	16:10-16:45	**M. Schvartzman**: Nanoscale spatio-mechanical regulation of the immune signaling in cytotoxic lymphocytes.	**F. Simmel:** Programming cells and biomaterials with nucleic acid strand displacement processes
	16:45-17:00	**K. Sengupta:** AI based detection of hidden features in T cell architecture	**A. Diaz Alvarez**: Developing a novel and tunable biomaterials platform to mimic the intercellular interface
	17:00-17:15	**J. Rädler:** Adhesion-velocity relation of motile cells in confined geometry	**C. You:** Nanoscopic anatomy of dynamic multi-protein complexes at membranes resolved by graphene induced energy transfer
	17:15-17:50	**J.T. Groves**: Visualizing the LAT protein condensation phase transition in T cell signaling	
	17:50-17:55	**S. Jorda:** Introduction of the WE-Heraeus Foundation	
	17:55-20:00 (open end)	Poster Session 2, Coffee Tables, Speakers' Tables	