

Active Hydrogels

An interdisciplinary symposium on the different designs and utilizations of hydrogels



DWI Leibniz-Institut für Interaktive Materialien



May 15-18, 2016 Schloss Ringberg – Kreuz (Germany)

BIOGEL

Sunday, May 15, 2016	
18:30	Welcome Dinner
19:30	<p>Martin Möller DWI – Leibniz Institute for Interactive Materials, Aachen (Germany)</p> <p>Joachim Spatz Max Planck Institute for medical Research, Heidelberg (Germany)</p>
21:00	Get-Together
Monday, May 16, 2016	
8:00	Breakfast
9:00	<p>Carsten Werner Leibniz-Institut für Polymerforschung, Dresden (Germany)</p> <p>Glycosaminoglycan-based biohybrid hydrogels</p>
9:45	<p>Nikolche Gjorevski Laboratory of Stem Cell Bioengineering, EPFL (Switzerland)</p> <p>Generation of epithelial organoids in fully defined matrices</p>
10:30	Coffee break & Discussion
11:00	<p>Andrew Holle Max Planck Institute for medical Research, Stuttgart (Germany)</p> <p>Cell behavior on shallow gradient hydrogels</p>
11:45	<p>Paul Kouwer Institute for Molecules and Materials, Radboud University, Nijmegen (The Netherlands)</p> <p>Biomimetic hydrogels for biomedical applications</p>
12:30	Lunch
14:30	<p>Dennis Discher Biophysical Engineering Lab, University of Pennsylvania (USA)</p> <p>Expression profiles & micro-properties of diverse and diseased tissues guide design of gels with fractal fiber rigidity and ligand control</p>
15:15	<p>Leander Poczka and Filippo Cipriani Bioforge, University of Valladolid (Spain)</p> <p>Elastin-like recombinamers: from bioinspired motifs to biomedical applications</p>
16:00	Coffee break & Discussion
17:00	<p>Ansgar Petersen Charité, Universitätsmedizin Berlin (Germany)</p> <p>How biomaterial architecture and mechanics support endogenous bone tissue regeneration</p>
17:45	<p>Laura De Laporte DWI – Leibniz Institute for Interactive Materials, Aachen (Germany)</p> <p>Anisotropic injectable hydrogels for spinal cord repair</p>
18.30	Castle tour – Conference Dinner
20.00	Poster sessions & Discussion

Tuesday, May 17, 2016		
8:00	Breakfast	
9:00	Norbert Willenbacher Karlsruher Institute for Technology (Germany)	Multi particle tracking microrheology probing structure and flow of heterogeneous complex fluids
9:45	Vincent Milleret UniversitätsSpital Zürich (Switzerland)	PEG-hydrogels functionalization and structuring for the establishment of tissue models
10:30	Coffee break & Discussion	
11:00	Dimitris Missirlis Max Planck Institute for medical Research, Heidelberg (Germany)	What cells actually sense: effects of functional substrate coatings on fibroblast behaviour
11:45	Alexander Southan University Stuttgart (Germany)	3D dispensing of synthetic acrylate based hydrogels
12:30	Lunch	
14:30	Marian Weiss Max Planck Institute for medical Research, Heidelberg (Germany)	Sequential Bottom-up Assembly of Protocells
15:15	Smriti Singh DWI – Leibniz Institute for Interactive Materials, Aachen (Germany)	Radio-nanogels for theranostic
16:00	Poster session & Discussion	
17:00	Britta Trappmann Boston University, Boston (USA)	Biofunctionalized hydrogels to study cellular mechano-transduction
17:45	Qiang Wei Max Planck Institute for medical Research, Stuttgart (Germany)	Soft hydrogels as delivery vehicles for cells and growth factors
18:30	Dinner	
19:30	Round table discussion: Challenges in the field of tissue regeneration	
Wednesday, May 18, 2016		
8:00	Breakfast	
9:00	Jennifer Young Max Planck Institute for medical Research, Stuttgart (Germany)	Cancer cell-matrix interactions
9:45	Heike Boehm Max Planck Institute for medical Research, Heidelberg (Germany)	Hyaluronan biomaterials
10:30	Coffee break & Discussion	
11:00	Jakub Dostalek AIT - Austrian Institute of Technology (Austria)	Hydrogel-based interfaces for plasmonic biosensing and actuating
11:45	Ioanna Giouroudi DWI – Leibniz Institute for Interactive Materials, Aachen (Germany)	Magnetic elastomers for biomedical applications
12:30	Lunch	
14:00	Car service to Airport: http://doodle.com/poll/2tv5gppsrt3u2ywu	