



1st International Symposium

In vivo Visualization of Extracellular Matrix Pathology

Agenda

Thursday 27th May

08:30 -09:00	Getting to know the conference platform	
09:00-09:15	Welcome (B. Hamm, M. Taupitz, A. Ludwig, C. Infante-Duarte)	
09:15-11:30	Glycosaminoglycans as component of the ECM and its possible interaction with Gadolinium and Iron Oxide Nanoparticles	Chair: Kevin Pagel, Daria Dymnikova
09:15-10:00	Elemental Microscopy	Uwe Karst, Münster
10:00-10:45	Structural Analysis of Glycosaminoglycans	for the CRC team (A05, A06, C02): Maïke Lettow
	Interaction of Glycosaminoglycans with Gadolinium and Iron Oxide Nanoparticles	for the CRC team (A05, B02, C01): Lukasz Polewski
10:45-11:30	Structures of Glycosaminoglycans and their Significance for Complexing Properties	Rebecca Miller, Copenhagen
11:30-13:30	Poster and Lunch	
13:30-15:45	Pathobiology of the Extracellular Matrix - Identification of Targets for Molecular and Biophysical Imaging	Chair: Antje Ludwig,
13:30-14:15	Neutrophil Extracellular Traps (NETs) and Platelet Function	Konstantin Stark, Munich
14:15-15:00	Inflammation induced changes of the composition of the ECM	for the CRC team (B01, B02, B03, B05, B06, B08): Rafaela Vieira da Silva

	Inflammation induced changes of the mechanical properties of the ECM	for the CRC team (A01, B05, B07, B08): Anna Morr
15:00-15:45	Disease related Changes of the Endothelial Glycocalyx	Eno Essien Ebong, Boston
15:45-16:15	Coffee Break	
16:15-17:45	Toolbox for Visualization and Analytics of Cellular and Extracellular Structures - New Horizons	Chair: Birgit Kanngießer
16:15-17:00	Analytic Methods	for the CRC team (A02, A03, A04, A05): Christian Seim
	Multiparametric quantitative MRI	for the CRC team (A01, C03): Tobias Schäffter
17:00-17:45	3-dimensional visualization of cellular structures	Carolyn Larabell, Berkeley
17:45-18:30	Molecular MR imaging in cardiovascular disease	Rene Botnar, London/Chile

Friday 28th May

10:00-11:30	Molecular ECM-Targeting for MRI	Chair: Bernd Hamm, Jan Ole Kaufmann
10:00-10:45	Results in vascular pathologies	For the CRC team (B01, C01): Lisa Adams
	Results in non-vascular pathology	For the CRC team (B01, C01): Marcus Makowski
10:45-11:30	Advanced MRI acquisition and reconstruction techniques for the characterization of cardiovascular diseases	Sebastian Kozerke, Zürich
11:30-13:30	Lunch	
13:30-15:45	Elastography and Molecular Imaging of ECM	Chair: Jürgen Braun, Anna Morr
13:30-14:15	Perfusion related effects on viscoelasticity as measured by MRE	for the CRC team (A01, B07, C03): Ingolf Sack
	ECM and solid tissue related effects in MRE	for the CRC team (A01, B05, B07, C03): Jing Guo
14:15-15:00	Development of ECM targeted imaging probes	Peter Caravan, Boston
15:00-15:45	MR-elastography - principles and clinical application	Richard L. Ehmann, Rochester/Minnesota