

Schedule BIOQIC Day 27/09/2017

Time	Name	PI's	Project title
8:45-9:00	Welcome and introduction – Judith Bergs / Ingolf Sack		
9:00-9:45	Keynote lecture - Georg Duda: Mechanobiology in Regeneration		
9:45-10:00	Coffee break		
10:00-10:20	Nader Aldoj	Dewey Schäffter Kutyniok	Deep learning for detection and grading prostate cancer
10:20-10:30	Jan Pierre Bassenge	Schmitter Schulz-Menger Kutyniok/Kühne	Compressed sensing MRI for 4D-cardiac flow quantification
10:30-10:50	Jan Lucas Macdonald	Kutyniok Schäffter Schulz-Menger	Machine learning approaches for MR-fingerprinting of cardiovascular flow
10:50-11:20	Coffee break		
11:20-11:40	Stephan Wäldchen	Kutyniok Fischer/Sack Hege	Robust recovery strategies for the acoustic inverse scattering problem in anisotropic systems
11:40-12:00	Gergely Bertalan	Laufer/Sack Fischer Schmitt/Duda	Quantitative tissue characterization by multimodal imaging of tumor perfusion and effective-medium mechanical parameters in a preclinical model of lymphoma
12:00-12:20	Felix Schrank	Sack Schulz-Menger Ittermann	Time-resolved cardiac magnetic resonance elastography
12:20-13:30	Lunch break		
13:30-13:50	Ledia Lilaj	Fischer Sack Hirsch/Jöhrens	Poroelastography MRI and ultrasound for the measurement of tissue pressure
13:50-14:10	Andreas Kofler	Dewey Sack Kachelrieß	CT quantification of perfusion and elasticity related parameters in the heart
14:10-14:20	Sebastian Dietrich	Schäffter Schulz-Menger Niendorf	Quantitative MRI for assessment of myocardial fat infiltration at ultra-high field strength
14:20-14:40	Yavuz Uca	Taupitz Schröder Makowski	Molecular imaging of inflammation beyond macrophages by magnetic nanoparticle-enhanced MRI
14:40-15:10	Coffee break		
15:10-15:30	Patrick Werner	Schröder Taupitz Bick	Enzyme-activated Xe-MRI contrast agents for molecular imaging

15:30-15:50	Anna Grunwald	Abram Brenner Braun	Bioconjugation kits for multi-metal use and multi-organ targeting
15:50-16:10	Johannes Mayer	Schäffter Brenner Makowski	Quantitative assessment of coronary plaques by motion-compensated PET-MRI
16:10-16:30	Azadeh Mohtashamdolatshahi	Taupitz/Schnorr Schäffter Käs	Towards quantitative structure-sensitive MPI: Application for sentinel lymph node detection
16:30-16:50	Matteo Ippoliti	Makowski Brenner Abram	Characterization of tumor flow-metabolism mismatch by PET and MRI/ quantitative susceptibility mapping in the brain
16:50-17:05	Closing remarks and announcements – Ingolf Sack		
From 18:00	Guided tour (in English) in the Museum of Natural History		