



DACH-ISMRM Annual Meeting 2024

Poster Session Wednesday, September 04, 16:30-17:45

Hyperpolarization and Metabolic Imaging

P101	Implementation o	f SLIC-SABRE	hyperpolarization o	f 1-13C pyruvate
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- **P102** Implementing a Xenon polarizer for in vitro and in vivo imaging
- P103 Metabolic imaging with deuterated Glucose (and HP pyruvate) in a colitis model

MRI System Hardware and Technical Innovations

- **P201** A Low-Cost Magnetic Measurement System for Low-Field MRI Magnets based on a Motion Tracked Flexible-Joint Robot with 5 Degrees of Freedom
- **P202** Automated Gas Delivery System for Parahydrogen-Induced Polarisation at up to 10 bar
- P203 Easy Rebuildable Cubic 3-Axis Positioning Robot Based on Open-Source Hardware: Validated via Camera-Based Motion Tracking and Initial Application in Magnetic Low Field Mapping
- **P204** Inductively coupled coils for 1.5 T, 3 T and 7 T MRI
- P205 SQUID based Method of Evaluating Noise Characteristics of High Temperature Superconductors used in Novel Low Field MRI Scanner Designs

MRI Sequence Development and Optimization

- **P301** CEST MRI multi-pool quantification through simplified model-based analysis
- P302 Direct Encoded Signal Control with Phase Distribution Graphs for readout-tailored multipulse pTx optimization
- P303 Implementing whole brain spectroscopy on a vendor agnostic pulse programming platform
- P304 Optimization of multi-VENC compressed sensing 4D flow MRI for high-resolution neurovascular applications
- P305 SNR requirements for quantitative frequency-modulated bSSFP
- **P306** T2 mapping based on frequency-modulated bSSFP
- P307 The impact of fat-navigator resolution on motion parameter estimation accuracy
- P308 Ultra-Low Frequency MR Elastography

Clinical and Biological Applications

- **P401** Association Between Arterial Hypertension and Spinal Degeneration: An MRI-Based Cross-Sectional Study
- P402 Automatic evaluation of the properties of the glymphatic system using diffusion MRI data
- **P403** Cardiac CINE imaging at 0.55T a comparison to 1.5T
- **P404** How similar is quantitative MRI in the human brain measured ex vivo and in vivo?
- **P405** Impact of image registration and fibre orientation on the DTI-ALPS-index
- P406 Neurobiochemical correlates of long-term neuropsychiatric consequences of COVID-19 disease
- **P407** Optogenetic fPET/fMRI Reveals Distinct Roles of the Substania Nigra in Motor and Cognitive Processes
- P408 Semi-Automated Segmentation Pipeline for Dynamic MRI Analysis of Knee Joint Kinematics
- **P409** Tract masks for refined analysis of diffusion properties in motor tracts related to functional recovery after stroke in mice
- P410 Unravelling yeast metabolism with real-time deuterium magnetic resonance spectroscopy







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