

0009 Deuterium Metabolic Imaging (DMI) for 3D Mapping
of Glucose Metabolism in Humans with Central
Nervous System Lesions at 3T
Philip Adamson
Stanford University

10031 Iron accumulation and MRI iron contrast are not driven by amyloid plaques in posterior cortical atrophy
 Evgeniya Kirilina
 Max Planck Institute for Human Cognitive and Brain Sciences

O039 Total and regional brain volumes in fetuses with congenital heart disease
Daniel Cromb
King's College London

0041 Development of Infant Brain Functional Connectome
Gradients during Age 0-6 Years
Xinyi Cai
ShanghaiTech University

0044 Causal evidence for cerebello-limbic-striatal circuit dynamics supporting depression
Ruiping Zheng
the first affiliated hospital of zhengzhou university

Motion robust MR Fingerprinting scans for non-sedated infant imaging
 Chaitra Badve
 University Hospitals Cleveland Medical Center

0047 Macrovasculature-suppressed ASL MRI in neonates: quantification of cerebral blood flow and arterial transit time Zhiyi Hu Johns Hopkins University School of Medicine 0050 Optimization of the T2-weighted MRI contrast in 0-6month-old infant brain based on extended phase graph theory Jiani Wu **Zhejiang University** 0056 Respiratory-motion-corrected simultaneous 3D T1, T2, and fat-fraction mapping at 0.55T, for comprehensive characterization of liver tissue **Donovan Tripp** King's College London 0069 What if every voxel was measured with a different diffusion protocol? Santiago Coelho New York University School of Medicine 0096 Fibromyalgia associates with pain-promoting and inhibitory functional connectivity of the default mode network in psoriatic arthritis. Kristian Stefanov University of Glasgow 0097 Sensitivity and Reproducibility of MRI Detection of Hourglass-Like Constrictions in Parsonage-Turner Syndrome Clare Nimura Hospital for Special Surgery 0122 Accelerated single UTE-Dixon for simultaneous short T2*water and fat imaging using a FLORET trajectory Anh Van **Technical University of Munich** 0165 Federated Learning for Utilizing Multi-Institutional

Prostate MRI with Diverse Histopathology

In-Vivo CEST MRI to assess and identify myocardial

infarction by using natural D- glucose as a contrast

Translational Research Imaging Center, Clinic of

Radiology, University of Münster

Abhejit Rajagopal

UCSF

agent

Ajay Peddi

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0187	A voxel-wise composition ratio of DCE-MRI time- intensity curve profiles allows for visualizing and quantifying hemodynamic heterogeneity Bingyu Yao Chinese Academy of Sciences	0398	Cross-vendor three-dimensional multiparametric mapping of the human brain: A traveling-subject and patient study Shohei Fujita Juntendo University
0209	An Improved Intraoral Transverse Loop Coil Design for High Resolution Dental MRI Ali Özen Division of Medical Physics, Department of Radiology, University Medical Center Freiburg	0417	White Matter Neurometabolite Vulnerability Predicts Cognitive Decline in Alzheimer's Disease: A High- Resolution 3D 1H-MRSI Study Danni Wang Shanghai Jiao Tong University
0299	On-site construction of a point-of-care low-field MRI system in Africa Johnes Obungoloch Mberara University of Science and Technology	0421	MR Fingerprinting with a Deep Image Prior Reconstruction for Combined T1, T2, and M0 Mapping and Multi-Contrast Cine Imaging Jesse Hamilton University of Michigan
0338	Combination of irregular pulsation and aneurysm wall enhancement improved the diagnostic efficiency of symptomatic intracranial aneurysm Xiao Li Ren ji Hospital, School of Medicine, Shanghai Jiaotong University	0436	Endometriosis targeted MRI imaging using bevacizumab-modified nanoparticles aiming at vascular endothelial growth factor Qi Zhang Huashan hospital, Fudan University
0367	DEveloping Blood-Brain barrier arterial spin labeling as a non-Invasive Early biomarker (DEBBIE) Beatriz Padrela Amsterdam UMC	0489	Combined fMRS and fMRI During Reinforcement Learning in a Large Cohort at 7T: When Does Cognitive Processing Occur? Tal Finkelman
0384	Conditional Denoising Diffusion Probabilistic Models for Inverse MR Image Recovery Mahmut Yurt Stanford University	0511	Weizmann Institute of Science High-resolution single-breath-hold 3D MRCP using accelerated 3D Gradient and Spin-Echo (GraSE) with Compressed SENSE
0394	Single breath-hold full abdominal T1 mapping using a CNN based short inversion-recovery sampling technique Eze Ahanonu The University of Arizona	0529	Takumi Ogawa Tokyo Women's Medical University Pseudo Partition-encoded Simultaneous Multislab (pPRISM) for Submillimeter Diffusion Imaging Without Navigator and Slab-Boundary Artifacts
0395	Single-shot T2-FLAIR mapping via inversion recovery multiple overlapping-echo acquisition and deep neural network reconstruction	0565	Wei-Tang Chang UNC at Chapel Hill Predictive Value of Diffusion Magnetic Resonance
0205	Yanhong Lin Xiamen University	0303	Imaging for the Postoperative Outcome of Cervical Spondylotic Myelopathy Ming Ni
0396	Phantom Results of the ISMRM Joint RRSG–qMRSG Reproducibility Challenge on T1 mapping Mathieu Boudreau		Peking University Third Hospital

Polytechnique Montreal

0595	Comparison of measured and simulated cardiac magnetostimulation thresholds in eight pigs Valerie Klein	0735	MR elastography-based slip interface imaging (SII) to assess the mobility of the myofascial interface in extremities: A feasibility study
	Department of Radiology, Massachusetts General		Ziying Yin
	Hospital		Mayo Clinic
0628	Non-Contrast MRI of Micro-Vascularity of the Feet	0736	Quantitative muscle MRI depicts microstructural
	and Toes		abnormalities but no signs of inflammation or
	Mitsue Miyazaki		dystrophy in Post COVID-19 condition
	University of California, San Diego		Lara Schlaffke
0630	Quantification of muscle fat fraction and water T2		University Clinic Bergmannsheil Bochum gGmbH
	via RF phase-modulated 3D gradient-echo imaging	0738	Multi-parametric ageing study on 51 subjects in the
	Eléonore Vermeulen	0,00	lower leg by 1H water T1 MR fingerprinting, multi-
	Institute of Myology		compartment water T2, fat fraction and 31P MRS
	, 0,		Alfredo Lopez Kolkovsky
0635	Local \$\$\$B_1^+\$\$\$ shimming improves visualization		Institute of Myology
	of the bone-metal interface in patients with		, •
	orthopedic hardware	0746	The MRDust: An Implantable Neural Interface
	Iman Khodarahmi		Powered via Focused Ultrasound with Data
	NYU Langone School of Medicine		Communication via MR Image Modulation
0683	Probing lactate exchange in Gray Matter via time-		Biqi Zhao
0065	dependent DW-MRS		University of California, Berkeley
	Eloïse Mougel	0755	Development of a cost-effective, fiber optic-based,
	Université Paris-Saclay, CEA, CNRS, MIRCen,	0733	MRI-compatible EEG system: a proof-of-concept
	Laboratoire des Maladies Neurodégénératives		study
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0685	Quantifying human gray matter microstructure using		Rochester Institute of Technology
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	Lausanne University Hospital (CHUV)		informed by dynamic MRI-derived vocal tract area
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0686	Exchange-driven Microscopic Kurtosis in Correlation		Rushdi Zahid Rusho
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	Sune Jespersen Aarhus University	0789	Abbreviated MRI with Second Shot Arterial Phase for
	Admus Offiversity	0769	HCC Evaluation: Modified Version of LI-RADS and
0705	Machine Learned Wave Encoded Neurovascular 4D		Recall Reduction Strategy
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	Chenwei Tang		Korea University Guro Hospital
	University of Wisconsin-Madison		Korea Griversity Garo Hospital
		0819	Attention mechanisms for sharing low-rank, image
0731	Value of multiple mathematical models of advanced		and k-space information during MR image
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	ratio in rectal cancer		Siying Xu
	Lijuan Wan		University Hospital of Tuebingen
	National Cancer Center/National Clinical Research		
	Center for Cancer/Cancer Hospital, Chinese Academy		
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College

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	metastases to stereotactic radiosurgery		Eneko Uruñuela
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	,	1047	A Deep learning informed Polynomial Fitting
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	remnant growth after portal vein embolization		Frederik Abel
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		1089	Improved R2* and QSM mapping for dummies - ask
0928	A deep learning framework for cardiac self-gating in		Adam
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	Lausanne University Hospital (CHUV) and University		,
	of Lausanne (UNIL)	1095	Is linear subspace constraint reconstruction suitable
	or Edusarine (OTTE)		for multi-compartment T2 imaging? Evaluation and
0933	End-to-end Automation of Quantitative Processing		guidelines.
	for 4D Flow MRI in the Aorta: Demonstration and		Nadège Corbin
	Evaluation in 271 Subjects		Centre de Résonance Magnétique et Systèmes
	Ethan Johnson		Biologiques, UMR5536, CNRS, University of
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0956	Assessing Sex Differences in Abdominal Fat Depots of	1108	Locally low-rank denoising in transform domains.
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	School of Medicine, Technical University of Munich	1141	Widespread, depth-dependent microstructural
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0994	Automated Surfaced-based Detection of Focal		A quantitative T1 and T2 mapping study
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		1142	T1 and T2 Mapping Using Highly Sparse
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_0_0	using Pilot Tone and 3D Radials	1175	ultrafast DCE-MRI predicts HER2+ breast cancer
	Tess Wallace		response to neoadjuvant chemotherapy
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1149	Low spatial-frequency ripple artifacts in layer-fMRI EPI: Identification, cause, and mitigation strategies with Dual-polarity readout Renzo Huber	1282	A complete cerebellar mean-field model ready to be integrated into whole-brain dynamic simulators Roberta Lorenzi Università di Pavia
1173	Maastricht University DSC-derived perfusion map generation from DCE MRI using deep learning Haoyang Pei Icahn School of Medicine at Mount Sinai	1285	Diffusion weighted, intravoxel incoherent motion, diffusion kurtosis tensor MR imaging in chronic kidney disease: correlations with histology Jie Zhu Beijing Hospital
1174	Modeling inflow effects in fast fMRI to quantify fluid flow Baarbod Ashenagar Boston University	1306	Brain-wide fMRI Connectivity and Regional Genetic Modulations underlying Optogenetically-evoked Spindles in Rescuing Memory Decline in Aging Xunda Wang The University of Hong Kong
1215	Dynamic glucose-enhanced imaging of the liver using breath-hold black blood quantitative T1rho MRI Yurui Qian The Chinese University of Hong Kong	1325	Al-based Single-Click Cardiac MRI Exam: Initial Clinical Experience and Evaluation in 44 Patients Jens Wetzl Siemens Healthcare GmbH
1243	4D flow MRI for investigation of fetal cardiovascular hemodynamics in healthy development and ductal dependent lesions Erin Englund University of Colorado, Anschutz Medical Campus	1328	Development and Validation of a Radiomics Model i Differentiating Sinonasal Mucosal Melanomas from Sinonasal Lymphomas Shengyong Li
1244	Multiresolution comparison of fetal CINE MRI at 0.55 T Datta Singh Goolaub The Hospital for Sick Children	1371	East China Normal University Motion-Aware Neural Networks Improve Rigid Motion Correction of Accelerated Segmented Multislice MRI
1248	Development of the fetal brain structural connectivity during the second-to-third trimester based on diffusion MRI Ruike Chen Zhejiang University	1374	Nalini Singh MIT Cardiac MR Denoising Inline Neural Network (CaDIN). Siyeop Yoon
1253	Association analysis of age-dependent changes in R1map at the brain region level with gene expression patterns	1375	Beth Israel Deaconess Medical Center and Harvard Medical School Improved Bayesian Brain MR Image Segmentation b
	Xiang Chen Fudan University	13/3	Incorporating Subspace-Based Spatial Prior into Dee Neural Networks Yunpeng Zhang
1267	Whole Body Mouse EPR Oxygen Imaging of Implanted Beta Cell Replacement Devices Mrignayani Kotecha O2M Technologies LLC		School of Biomedical Engineering, Shanghai Jiao Tong University

1378	Towards Informative Uncertainty Measures for MRI Segmentation in Clinical Practice: Application to Multiple Sclerosis Nataliia Molchanova Lausanne University Hospital (CHUV)	1442	Diagnostic performance of Rapid Whole-body MRI with uniformly fat-suppressed T2-weighted imaging for multiple myeloma Rianne van der Heijden University of Wisconsin-Madison
1387	Enzyme Delivery to the Putamen in Parkinson's Disease Patients by MR-Guided Focused Ultrasound Yuexi Huang Sunnybrook Research Institute	1450	The Effect of Long-term Exercise Training on Metabolic Responses in Obese Zucker Fatty Diabetic Rats using Phosphorous-31 MRS Kihwan Kim
1398	UTILITY OF OXYGEN-ENHANCED LUNG MRI IN LONG TERM POST-LUNG TRANSPLANT PATIENT CARE Milan Speth Hannover Medical School	1600	Case Western Reserve University Simultaneous multi-slice real-time cardiac MRI at 0.55T Ecrin Yagiz University of Southern California
1424	First QSM of an ex vivo human brain on the Iseult 11.7T whole-body system using parallel transmission and virtual coil reconstruction Mathieu Santin Institut du Cerveau – Paris Brain Institute – ICM, INSERM, CNRS, Sorbonne Université	2491	Amide proton transfer-weighted MRI of brain tumor with fluid & solid compartment corrections using background magnetization transfer effects Osamu Togao Graduate School of Medical Sciences, Kyushu
1427	Regional quantification of cardiac metabolism with hyperpolarized [1-13C]-pyruvate MRI Peder Larson University of California - San Francisco	2528	University Individualised perioperative brain growth in infants with congenital heart disease (CHD): correlation wit clinical risk factors
1428	Diabetic Treatment and Oral Ketone Supplement effect on Cardiac Function and Metabolism in Heart Failure Model by Cardiac and hyperpolarized MRSI David Guarin Bedoya Massachusetts General Hospital	4543	Daniel Cromb King's College London Continuous wave radar for carotid pulse sensing in Magnetic Resonance Imaging Renesmee Kuo
1429	3D whole-heart joint T1/T1p/T2 mapping and water- fat imaging for contrast-agent free myocardial tissue characterization at 1.5T Michael Crabb King's College London	5078	Stanford University Wearable and stretchable RF coils using self- decoupling technology Shuyang Chai Vanderbilt University Medical Center
1431	Myofiber strain estimation using cDTI, DENSE, and feature tracking. Kevin Moulin University of Lyon, UJM-Saint-Etienne, INSA, CNRS UMR 5520, INSERM U1206, CREATIS, F-42023		
1432	Accelerated 3D Stack-of-Spiral Cardiac Quantitative		

Susceptibility Mapping: Noninvasive Measurement of

Heart Oxygenation in a Breath-Hold

Jiahao Li

Cornell University