BIC-ISMRM Meeting, Brighton 2025: Preliminary Programme: Day 1

9:00-9:30	Registration + refreshments
9:30-9:45	Welcome
9:45-11:00	Oral Session 1: MRI and MRS: Brain Physiology
	Moderator + introduction to the session: TBD
	Elizabeth J. Fear, University of Chieti-Pescara, Italy:
	Evaluation of Single Breath-Hold Calibrated fMRI for Baseline CMRO2 and
	OEF Measurement in Grey Matter
	Jierong Luo, University College London
	Resting-State Functional Electrical Properties Tomography (rsfEPT)
	Kevin McNally, University College London
	Complex-Valued Magnetic Resonance Fingerprinting for Simultaneous
	Estimation of Magnetic Field Perturbations and Transverse Relaxation
	Ferrida Ponce, Bangor University
	Regional Neurometabolic Responses to Intermittent Hypoxia
	noglonativo aromotabolio nooponooo to intermittenti riypoxia
	Jiri Benacek, Cardiff University
	Enhancing temporal resolution of fMRI data through multi-modal data
	fusion with paired MEG measurements using machine learning
11:00-11:30	Break + refreshments + posters
11:30-12:45	Oral Session 2: MRI: Image Analysis and Machine Learning
	Moderator + introduction to the session: TBD
	Param Ahir, Trinity College, Dublin
	Deep Spatiotemporal Neural Networks and tSNR-Guided Frame
	Retention for Frame Quality Classification in Infant Awake fMRI
	neterition for Frame Quality Stassinsation in initiative wake it init
	Aisling E Fothergill, University of Manchester
	Impact of Bayesian-inference vs least squares fitting on the repeatability
	of ASL perfusion estimates
	Housishandst Ismalidinan University of Colgany Alberta, Canada
	Houriehsadat Jamalidinan, University of Calgary, Alberta, Canada Dual Output Modes of 4DFlowNet Highlight Super-Resolution Advantages
	for Hemodynamic Profiling in Bicuspid Aortic Valve
	To Fremodynamie Froming in Biodopia Aordie Valve
	Jacob Turnbull, University of Oxford
	Addressing bias in FreeSurfer imaging-derived phenotypes arising from
	T2-FLAIR scan omission in UK Biobank using harmonization approaches
	Zi Ye, Trinity College, Dublin
	RWKV-MoEst: An RWKV-based 4D fMRI Motion Estimation Model
	TOURSE AN INVITA BUSEN 4D IT IN PROBOT ESTIMATION PROBE
12:45-14:00	Lunch, posters and exhibits
14:00-15:00	Gold sponsor presentation (1)
15:00-15:15	Short Break

15:15-16:30	Oral Session 3: MRI and MRS: Preclinical Studies and Cancer Moderator + introduction to the session: TBD Michael Law, Cardiff University Microstructural imaging of Glioblastoma using ultra-strong gradient diffusion MRI Tareq Alrashidi, University of Liverpool
	1H MR spectroscopy and IVIM-DWI to evaluate the effects of lonidamine and temozolomide treatment in a mouse model of glioblastoma Maëliss Jallais, Cardiff University Combining single and double diffusion encoding for improved dendritic
	spine density estimation with magnetic resonance spectroscopy Suchit Kumar, University College London Investigation of Gradient-Induced Artefacts in Simultaneous Graphene- Array Electrophysiology-fMRI in 7T Preclinical MRI
	Friedrich Wetterling, Trinity College, Dublin High-resolution T1-weighted magnetic resonance imaging of myelinated fibre tracts in the caudate putamen of an ex vivo murine model at 9.4T
16:30-17:00	Break + refreshments + posters
17:00-17:45	Bill Moore Lecture: Prof Mark Lythgoe, University College London
19:30	Conference Dinner

BIC-ISMRM Meeting, Brighton 2025: Preliminary Programme: Day 2

9:00-9:30	Refreshments
9:30-10:45	Oral Session 4: MRI, MRS and other modalities: Neuro
3,33 10,40	Moderator + introduction to the session: TBD
	Laith Alexander, King's College, London
	Neural correlates of negative autobiographical memory and rumination: a
	personalised fMRI and pCASL study in healthy volunteers
	Gemma Brownbill, Brighton and Sussex Medical School
	Altered Brain Energy Metabolism in Multiple Sclerosis: Elevated Lactate
	and Impaired Creatine Response in the Anterior Cingulate Cortex Following Exercise-Induced Fatigue
	Daniel Cocking, University of Nottingham
	Time-Resolved Glutamate Responses During Working Memory via a Mixed Block/Event-Related 1H MRS Design
	Elizabeth Davies, University of Manchester
	Regional ATT, but not CBF, Correlates with Amyloid Burden in Early
	Dementia: Insights from a Multimodal Imaging Exploration
	Svetla Manolova, Cardiff University
	Investigating Microstructural Determinants of Propagation Delays: a
	Multimodal MEG-MRI study
10:45-11:15	Break + refreshments + posters
11:15-12:30	Oral Session 5: Hardware, pulse and protocol design
	Moderator + introduction to the session: TBD
	Finn Aubrey Conboy, University of Sussex
	Enhanced SNR in Ultra-Low Field MRI using novel Composite Refocusing Pulses
	Alice Conner, Balliol College, University of Oxford
	Accelerated Bloch-Siegert B1+ Mapping using Concentric Ring 31P-MRSI at 7T
	Philippa Sha, University College London Generating a Novel Digital Phantom for Simultaneous QSM and EPT
	Kadir Şimşek, Cardiff University
	TAsk-DRiven Experimental Design for Protocol Optimization of Ultra-high Gradient Strength Diffusion-weighted MRI Measurements
	Chia-Yin Wu, University of Glasgow
	Improving transmit magnetic field homogeneity using a neurovascular head and neck coil with tailored parallel transmission pulses
12:30-13:30	Lunch, posters and exhibits

13:30-14:00	BIC-ISMRM Annual General Meeting
14:00-15:00	Gold sponsor presentation (2)
15:00-15:15	Short Break
15:15-16:30	Oral Session 6: Body MRI and MRS
	Moderator + introduction to the session: TBD
	Mueed Azhar, University of Cambridge
	Non-invasive 2H-MRS reveals increased liver fat from de novo lipogenesis
	in South Asians compared with Europeans
	Dominic Harrison, University of Newcastle
	Development of high-resolution 19F-MRI of inhaled perfluoropropane using a 6-channel receive array coil with compressed sensing-parallel imaging
	Klara Mišak, University College London Sequence-Specific Geometric Distortions in Breast MRI at 3T: A Phantom- Based Analysis
	Eve S. Shalom, Perspectum, Oxford Repeatability metrics for automatically derived quantitative pancreatic MRI measures
	Anna Griffith, University of Sheffield What is the effect of a breath-hold on renal BOLD MRI scans?
16:30-17:00	Awards and close

BIC-ISMRM Meeting, Brighton 2025: Preliminary Programme: Posters

Mitchel Lee, University College London

Altered Resting State Ventrolateral Periaqueductal Grey Functional Connectivity in Sickle Cell Anaemia

Kylie Yeung, University of Oxford

Off-Resonance Correction for Hyperpolarized Xenon-129 Imaging with Integrated B0 Mapping and Pinv-Recon

Belinda Ding, University Hospital Birmingham NHS Foundation Trust

Feasibility of using convolutional neural network for automated low-contrast detectability in MRI QA

Zaeema Fatima, Cardiff University

Comparison and validation of Two automated lesion segmentation tools

Thierry M. Guihéneuf, University of Oxford

Comparative Performance of T1, T2 and Fat Fraction Mapping in Bone Marrow at 3 Tesla

Elise Gwyther, Cardiff University

Temporal Diffusion Ratio to Map Regions of Restricted Diffusion in Human Brain Metastases

Claire Holland, University of Manchester

Evolution of White Matter Hyperintensities and the impact of acute ischaemic Stroke

Yiling Hu, University of Glasgow

Image registration for real-time deep learning-based rigid motion correction at 7T

Zoona Javed, University of Sheffield

Repeatability of ³¹P CSI metabolite quantification: A voxel-wise analysis of the thalamus and the postcentral gyrus

Olivia A Jones, University of Manchester

DCE-MRI measurements of blood-brain barrier permeability in chronic ischaemic stroke

Zhuang Liu, University of Oxford

Optimization of [2-13C]Pyruvate Hyperpolarization Via the Addition of Gadolinium

Yuchen Ma, Perspectum, Oxford

Comparison of segmentation-based and ROI-based quantification of pancreatic PDFF

Klara Mišak, University College London

Evalua@ng the Stability and MRI Relaxa@on Proper@es of Alginate for Breast Phantom Development

Alex Nagle, Brighton and Sussex Medical School

Using functional MRI neurofeedback to modulate self-blame in major depressive disorder.

Stephen Naulls, Brighton and Sussex Medical School

Chemsex and the Brain: Interim Findings from a Multimodal Pilot Neuroimaging Study

Qin Li, Cardiff University

Coupled grey matter BOLD-CSF oscillations measured at 7T during wake and sleep.

Jan Sedlacik, Imperial College, London

Temporal phase unwrapping of free-running 5D phase-contrast flow MRI by using cardiac phases reconstructed with high temporal resolution

Philippa Sha, University College London

Investigating the Repeatability of Phase-Based Magnetic Resonance Electrical Properties Tomography (EPT) in the Human Brain

Abi Spicer, University of Nottingham

Variability in 13C MRS measurement of Liver Glycogen in Children

Neslihan Isleyen, The Royal London Hospital

MRI Fun Day: Pilot Study of a Paediatric-Focused Educational Event

Yirun Wang, University College London

Optimising phase-based magnetic resonance electrical properties tomography (EPT) for multiparametric mapping (MPM) MRI acquisitions in the brain

Benjamin LB Wilson, University of Sheffield

Feasibility of Dissolved-Phase Hyperpolarised 129Xe MRI at 0.5 T

Mehmet N. Yildirim, Cardiff University

Qualitative Comparison of Harmonic and Transient Excitations in a Finite Element Brain Model for Magnetic Resonance Elastography

Yuxin Weng, University College London

Comparative Evaluation of Traditional and Deep Learning-Based Total Intracranial Volume Estimation Methods in Alzheimer's Disease and Cognitively Normal Brain MRI

James Robertson, King's College London

Comparing Standard and Tensor-based MP-PCA Complex Denoising Performance for a Highly Sampled Diffusion-Relaxometry Dataset