

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

9:00-9:30	Registration + refreshments	MTB Foyer
9:30-9:45	Welcome	Chowen Theatre
9:45-11:00	<p>Oral Session 1: MRI and MRS: Brain Physiology Moderator + introduction to the session: Laura Parkes, University of Manchester</p> <p>Elizabeth J. Fear, University of Chieti-Pescara, Italy: <i>Evaluation of Single Breath-Hold Calibrated fMRI for Baseline CMRO2 and OEF Measurement in Grey Matter</i></p> <p>Jierong Luo, University College London <i>Resting-State Functional Electrical Properties Tomography (rsfEPT)</i></p> <p>Kevin McNally, University College London <i>Complex-Valued Magnetic Resonance Fingerprinting for Simultaneous Estimation of Magnetic Field Perturbations and Transverse Relaxation</i></p> <p>Ferrida Ponce, Bangor University <i>Regional Neurometabolic Responses to Intermittent Hypoxia</i></p> <p>Jiri Benacek, Cardiff University <i>Enhancing temporal resolution of fMRI data through multi-modal data fusion with paired MEG measurements using machine learning</i></p>	Chowen Theatre
11:00-11:30	Break + refreshments + posters	MTB Foyer, GA Rooms
11:30-12:45	<p>Oral Session 2: MRI: Image Analysis and Machine Learning Moderator + introduction to the session: Ivor Simpson, University of Sussex</p> <p>Param Ahir, Trinity College, Dublin <i>Deep Spatiotemporal Neural Networks and tSNR-Guided Frame Retention for Frame Quality Classification in Infant Awake fMRI</i></p> <p>Aisling E Fothergill, University of Manchester <i>Impact of Bayesian-inference vs least squares fitting on the repeatability of ASL perfusion estimates</i></p> <p>Houriehsadat Jamalidinan, University of Calgary, Alberta, Canada <i>Dual Output Modes of 4DFlowNet Highlight Super-Resolution Advantages for Hemodynamic Profiling in Bicuspid Aortic Valve</i></p> <p>Jacob Turnbull, University of Oxford <i>Addressing bias in FreeSurfer imaging-derived phenotypes arising from T2-FLAIR scan omission in UK Biobank using harmonization approaches</i></p> <p>Zi Ye, Trinity College, Dublin <i>RWKV-MoEst: An RWKV-based 4D fMRI Motion Estimation Model</i></p>	Chowen Theatre
12:45-14:10	Lunch, posters and exhibits (BIC ISMRM executive meeting 13:00-14:00)	MTB Foyer, GA Rooms
14:10-15:00	Gold sponsor presentations: Nvision: 14:00-14:25 Siemens: 14:25-15:00	Chowen Theatre

15:00-15:15	Short Break	MTB Foyer
15:15-16:30	<p>Oral Session 3: MRI and MRS: Preclinical Studies and Cancer Moderator + introduction to the session: Bernard Siow, The Francis Crick Institute</p> <p>Michael Law, Cardiff University <i>Microstructural imaging of Glioblastoma using ultra-strong gradient diffusion MRI</i></p> <p>Tareq Alrashidi, University of Liverpool <i>¹H MR spectroscopy and IVIM-DWI to evaluate the effects of lonidamine and temozolomide treatment in a mouse model of glioblastoma</i></p> <p>Maëliss Jallais, Cardiff University <i>Combining single and double diffusion encoding for improved dendritic spine density estimation with magnetic resonance spectroscopy</i></p> <p>Suchit Kumar, University College London <i>Investigation of Gradient-Induced Artefacts in Simultaneous Graphene-Array Electrophysiology-fMRI in 7T Preclinical MRI</i></p> <p>Friedrich Wetterling, Trinity College, Dublin <i>High-resolution T1-weighted magnetic resonance imaging of myelinated fibre tracts in the caudate putamen of an ex vivo murine model at 9.4T</i></p>	
16:30-17:00	Break + refreshments + posters	MTB Foyer, GA Rooms
17:00-17:45	Bill Moore Lecture: Prof Mark Lythgoe, University College London	Chowen Theatre
17:45-19:15	Drink reception, poster adjudication	MTB Foyer
19:30	Conference Dinner	Bramber House, Gallery Rooms 1&2, 3 rd floor

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

9:00-9:30	Registration + Refreshments	MTB Foyer
9:30-10:45	<p>Oral Session 4: MRI, MRS and other modalities: Neuro Moderator + introduction to the session: Harish Poptani, University of Liverpool</p> <p>Laith Alexander, King's College, London <i>Neural correlates of negative autobiographical memory and rumination: a personalised fMRI and pCASL study in healthy volunteers</i></p> <p>Gemma Brownbill, Brighton and Sussex Medical School <i>Altered Brain Energy Metabolism in Multiple Sclerosis: Elevated Lactate and Impaired Creatine Response in the Anterior Cingulate Cortex Following Exercise-Induced Fatigue</i></p> <p>Daniel Cocking, University of Nottingham <i>Time-Resolved Glutamate Responses During Working Memory via a Mixed Block/Event-Related 1H MRS Design</i></p> <p>Elizabeth Davies, University of Manchester <i>Regional ATT, but not CBF, Correlates with Amyloid Burden in Early Dementia: Insights from a Multimodal Imaging Exploration</i></p> <p>Svetla Manolova, Cardiff University <i>Investigating Microstructural Determinants of Propagation Delays: a Multimodal MEG-MRI study</i></p>	Chowen Theatre
10:45-11:15	Break + refreshments + posters	MTB Foyer, GA Rooms
11:15-12:30	<p>Oral Session 5: Body MRI and MRS Moderator + introduction to the session: Jeanine Prompers, University Medical Center Utrecht and Maastricht University, The Netherlands</p> <p>Mueed Azhar, University of Cambridge <i>Non-invasive 2H-MRS reveals increased liver fat from de novo lipogenesis in South Asians compared with Europeans</i></p> <p>Dominic Harrison, University of Newcastle <i>Development of high-resolution 19F-MRI of inhaled perfluoropropane using a 6-channel receive array coil with compressed sensing-parallel imaging</i></p> <p>Klara Mišak, University College London <i>Sequence-Specific Geometric Distortions in Breast MRI at 3T: A Phantom-Based Analysis</i></p> <p>Eve S. Shalom, Perspectum, Oxford <i>Repeatability metrics for automatically derived quantitative pancreatic MRI measures</i></p> <p>Anna Griffith, University of Sheffield <i>What is the effect of a breath-hold on renal BOLD MRI scans?</i></p>	Chowen Theatre
12:30-13:30	Lunch, posters and exhibits	MTB Foyer, GA Rooms
13:30-14:10	BIC-ISMRM Annual General Meeting	Chowen Theatre

14:10-15:00	Gold sponsor presentation: Philips: 14:00-14:25 Multiwave: 14:25-15:00	Chowen Theatre
15:00-15:15	Short Break	MTB Foyer
15:15-16:30	Oral Session 6: Hardware, pulse and protocol design Moderator + introduction to the session: Mara Cercignani, Cardiff University Benjamin LB Wilson, University of Sheffield <i>Feasibility of Dissolved-Phase Hyperpolarised ^{129}Xe MRI at 0.5 T</i> Alice Conner, Balliol College, University of Oxford <i>Accelerated Bloch-Siegert B1+ Mapping using Concentric Ring 31P-MRSI at 7T</i> Philippa Sha, University College London <i>Generating a Novel Digital Phantom for Simultaneous QSM and EPT</i> Kadir Şimşek, Cardiff University <i>TASK-DRIVEN Experimental Design for Protocol Optimization of Ultra-high Gradient Strength Diffusion-weighted MRI Measurements</i> Chia-Yin Wu, University of Glasgow <i>Improving transmit magnetic field homogeneity using a neurovascular head and neck coil with tailored parallel transmission pulses</i>	Chowen Theatre
16:30-17:00	Awards and close	Chowen Theatre

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 (Marco Palombo presenting), 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 ^{31}P 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 $[2-^{13}\text{C}]$ Pyruvate Hyperpolarization Via the Addition of Gadolinium

Yuchen Ma, Perspectum, Oxford

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

Klara Mišák, University College London

Evaluating the Stability and MRI Relaxation Properties 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 multi-parametric mapping (MPM) MRI acquisitions in the brain

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

Finn Aubrey Conboy, University of Sussex

Enhanced SNR in Ultra-Low Field MRI using novel Composite Refocusing Pulses

Zuzanna Biesiada, University of Manchester

Impact of infarct location on cognitive performance 6 months post-stroke

Luca L. C. Trautmann, University of Sussex

Evaluating structural uncertainty in accelerated MRI: are voxelwise measures useful surrogates?

Edward Caddy, Brighton and Sussex Medical School

Age-dependent lactate responses in the anterior cingulate cortex during cognitive-emotional challenge

James R. Barnacle, The Francis Crick Institute, London, UK

Detection of brain metabolites in HIV-associated tuberculous meningitis using magnetic resonance spectroscopy