PROGRAMME

THURSDAY 21ST SEPTEMBER

09:00	Registration
	Conference Opening Address
09:45	Dr. Lauren Hadley, University of Nottingham Research Challenge Update
10:10	Luke Priestley, University of Oxford Transcranial Ultrasound Stimulation of Small Subcortical Nuclei Influences Reward-Guided Decisions in Macaques
10:35	Poster Pitches Cohort I
11:30	Poster Session Poster Session
12:00	Lunch
13:00	Dr. Róisín Mc Mackin, Trinity College Dublin
	Measuring the Function of Specific Cortical Networks Using Task-Linked EEG/MEG: Considerations During Study Design
13:25	Dr. Danielle Kurtin, Imperial College London
	Noninvasive Temporal Interference Stimulation of the Human Hippocampus Selectively Modulates Resting State Functional Connectivity
13:50	Poster Pitches Cohort II
14:45	Coffee Break
15:20	Professor André Brunoni, University of São Paulo
	tDCS in depression: mechanisms and empirical evidence
15:45	Dr. Alex Tang, University of Western Australia
	The Synaptic and Non-Synaptic Plasticity Mechanisms of Repetitive

Transcranial Magnetic Stimulation **16:10** Dr. Kieth Murphy, Stanford University

Optically Tuned Ultrasound Neuromodulation for Remote Control

of Walking and Vasodynamics

16:35 Professor Walter Paulus, Ludwig Maximilians University

17:25 Day I Closing Remarks

17:30 Extended Poster Session

18:30 Social Event

19:30 Day I End

FRIDAY 22ND SEPTEMBER

09:00 Registration Opens

09:45 Welcome

09:50 Karen Wendt, University of Oxford

Multi-Scale Temporal Considerations from TMS: From Pulse Shapes to Patterns - From Microseconds to Hours

10:15 Dr. Daisy Thompson-Lake, Rockefeller Neuroscience Institute, West Virginia University Reducing Cravings in Opioid Use Disorder Using Low Intensity Focused Ultrasound

10:40 Dr. Meghan Gonsalves

Cortical Glutamatergic and N-acetylated Compounds: Potential Biomarkers of rTMS

Outcomes in Major Depression

11:05 Dr. Joshua Brown, Harvard Medical School Young Investigator Award Winner 2023



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11.33	John Rothwell Award
12:05	Lunch
13:00	Samaneh Rashidi, University of Surrey
	The Effect of Transcranial Random Noise Stimulation Techniques on Language Learning
13:25	Ingrid Odermatt, ETH Zurich
	TMS-Based Motor Imagery Neurofeedback Enhances Individuation of
	Neural Finger Representations
13:50	Dr Jerome Sallet, INSERM, University of Oxford
	Probing Decision-Making Circuits in Primates using Transcranial Ultrasound Stimulation
14:15	Dr. Maria Gallahger, University of Kent
	Using Galvanic Vestibular Stimulation to Investigate Vestibular Processing in Virtual Realit
14.40	Break
15.15	Dr. Lennart Verhagen. Donders Institute
	The Effect of Transcranial Random Noise Stimulation Techniques on Language Learning
15.40	Dr. Domenica Vanieró, University of Nottingham
	Brain Oscillations as a Mechanism of Cortical Communication
16.05	Professor Simon Hanslmayr, University of Glasgow
	Neural Mechanisms of Episodic Memory Formation: Implications for Neurotech
16.30	Dr. Jacinta O'Shea, University of Oxford
16.40	Poster Prize Presentation, Research Challenge Presentation
17.20	Closing Remarks
17.35	Conference End

SATURDAY 23RD SEPTEMBER

Workshop Programme
 OPM Technology and System Overview
 Video Demonstration of Mag4Health OPM-MEG Research System
 Clinical Applications for OPM-MEG
 Post-processing Result Presentation
 Discussion Q&A
 Close

This year, in-person attendees of the Brainbox Initiative Conference will have the opportunity to join us on Saturday 23rd September for a half-day, interactive workshop.

The workshop will explore the fundamentals and recent advancements in MEG, as well as future directions in the field of OPM-MEG.

Joined by: **Dr Etienne Labyt** (MAG4Health), **Andrew Thomas** (Brainbox), **Dan Phillips** (Brainbox) **Soffia Cahill** (Brainbox)

Spaces for this satellite workshop are strictly limited.

This satellite workshop is free to attend for conference attendees; it is not possible to attend the workshop only. Spaces are limited and must be booked in addition to the conference itself. The workshop is only available in person; it will not be included in the online streaming for virtual attendees.

Programme subject to changes

