





UK Sensorimotor Meeting 2022

Aston University Lecture theatre 2 (room 417 - 4th floor)

Monday 20th June

9:00 Preconference workshops run by our sponsors  and 

13:00 Welcome & Introduction

Presentations - Afternoon

13:15 Yingshi Feng, Malte Kaller, Heidi Johansen-Berg

Myelin Plasticity and Sleep-Dependent Memory Consolidation

13:30 Elliott Atkinson

Reliability of non-invasive assessment methods of reticulospinal tract function in humans.

13:45 Rachael H. A. Jones, Mark R. Baker, Stuart N Baker

Histopathologies in a Macaque Model of Motor Neurone Disease: Evidence for Prion-like Spread

14:00 Stuart N. Baker, Takamichi Tohyama, Jesus Tapia Lopez.

Evidence for a dominant reticulospinal drive to voluntary movement

14:15 Break - Posters

14:45 Viviane S. G. M. Tenorio, Stuart N. Baker

Applying a Dynamical Systems Approach to Neural Recordings from Cortical and Sub-cortical Motor Centres in Awake Behaving Monkeys

15:00 Lucy Dowdall and Tamar Makin

Pilot Study Investigating Integration of Somatosensory Information Following Short-Term Training with an Augmentation Device

15:15 Anna Baines, Stuart Baker

A Primate Model for the Flexor Synergy after Stroke

15:30 Colin McNamara

Bidirectional continuous closed-loop modulation of neuronal oscillations in vivo via stable brain-machine feedback

15:45 Break - Posters

16:15 Keynote talk: Andrew Jackson

Tuesday 21st June

Presentations - Morning

9:30 Keynote talk: Anna Kuppuswamy

10:30 Break - Posters

11:00 Arora, K., Chakrabarty, S.

A Simplified Framework of Motor Control

11:15 Sang-Hoon Yeo

On the Encoding Capacity of Human Motor Adaptation

11:30 Ian S. Howard and David W. Franklin

Investigating generalisation to dynamic force field adaptation across distinct gestures

11:45 Matthew Weightmann, Ned Jenkinson

Timing is everything: Event-related transcranial direct current stimulation improves motor adaptation

12:00 Lunch

Tuesday 21st June

Presentations - Afternoon

13:30 Keynote talk: Robert Brownstone

14:30 David Ó' Reilly, Ioannis Delis

A network-information theoretic framework to characterise muscle synergies in space and time

14:45 Giulia Dominijanni, Danielle Clode, Silvestro Micera, Solaiman Shokur and Tamar R. Makin

Assessment of Augmented Hands Synergies with an Unobstrusive Setup

15:00 Massimo Bertoli, William Tippins, William De Doncker, Chi-Hsu Wu, Annapoorna Kuppuswamy

Can pathological fatigue be considered among agency disorders spectrum?

15:15 Jennifer L Davies

A novel system to deliver transcranial magnetic stimulation during treadmill walking

15:30 Break - Posters

16:00 Jenny S. A. Lee, Brenton Hordacre, Duncan Austin, John Rothwell, Nick Ward, Sven Bestmann

A Longitudinal Comparison of Cortical Excitability in Stroke and Control Populations

16:15 Po-Yu Fong

Cerebellar transcranial evoked potential to investigate the role of the cerebellum in visuomotor adaptation

16:30 Ian D. Loram, Henrik Gollee, Cornelis van de Kamp and Peter J. Gawthrop

Does human balance control require predictive or non-predictive feedback control?

16:45 Patricia Cambalova, Katie Thompson, Ioana Grigoras, Evan C Edmond, Charlotte J Stagg

Determining the test-retest reliability of controllable pulse parameter TMS (cTMS) metrics

17:00 Germann M, Maffitt N, Poll A, Raditya M, Ting SJ & Baker SN

Pairing transcranial magnetic stimulation and loud sounds produces plastic changes in motor output

Presentations - Morning

- 9:30** Brownson-Smith, R., Orange, S., Saxton, J., Temesi, J
The effect of exercise before and/or during taxane chemotherapy on peripheral neuropathy symptoms, fatigue and quality of life in breast cancer patients: a systematic review and meta-analysis
- 9:45** Laura Alvarez Hidalgo & Ian S. Howard
Using a gain scheduling controller with an inverted pendulum as a model of human balancing behaviour
- 10:00** H lio V. Cabral, Giacomo Nardese, Jacques Abboud, Paul Hodges, Deborah Falla, Alessio Gallina
Spatial and temporal characteristic of lumbar pain induced by low-frequency sinusoidal electrical stimulation
- 10:15** Sebastian Sporn
Dopamine shaping motor skill learning
- 10:30** Break - Posters
- 11:00** Keynote talk: Chris Miall
- 12:00** End! Go to the pub!