



NCM 2017: Annual Meeting Detailed Daily Schedule

All sessions will be held in The Fitzwilliam Hall

Posters and Exhibits will be located in Landsdowne Suite

DAY 1 Monday May 1, 2017

19:30 – 21:30 **Opening Drinks Reception**

DAY 2 Tuesday May 2, 2017

08:00 – 10:15 **Session 1, Panel I**

The motor system in acute and chronic pain

Organizer: Jason Kutch

Participants: Jason Kutch, Kornelia Kulig, Stephen Coombes, Paul Hodges

10:15 – 10:45 **Break**

10:45 – 13:00 **Session 2, Panel II**

Error, energy and reward: what drives sensorimotor adaptation?

Organizer: Timothy Carroll

Participants: Timothy J Carroll, Max Donelan, Alaa Ahmed, Li-Ann Leow, Joe Galea

13:00 – 15:00 **Session 3. Poster 1a and Lunch**

15:00 – 17:00 **Session 4, Individual Presentations I**

Task-relevant motor variability is dynamically regulated by reward history

Participants: Ashesh K Dhawale, Yohsuke R Miyamoto, Maurice A Smith, Bence P Ölveczky

Unmasking the emergence of automaticity through practice by limiting reaction times

Participants: Robert M Hardwick, Alexander D Forrence, John W Krakauer, Adrian M Haith

The speed of neural population dynamics as a neural code for motor timing

Participants: Mehrdad Jazayeri

The magnitude of implicit adaptation is limited by constant forgetting

Participants: Ryan Morehead, Maurice A Smith

Lasting clinical gains from stimulation-enhanced visuomotor adaptation in chronic stroke

Participants: Jacinta O'Shea, Patrice Revol, Helena Cousijn, Jamie Near, Pierre Petitet, Sophie Jacquin-Courtois, Heidi Johansen-Berg, Gilles Rode, Yves Rossetti

Brain network adaptations evidenced by changes in spectral electroencephalography estimates correlate with acquisition and consolidation of a manual visuomotor skill

Participants: Menno P Veldman, Natasha M Maurits, Chris Mizelle, Tibor Hortobágyi

DAY 3 Wednesday May 3, 2017

08:00 – 10:00 **Session 5, Panel III**

Presynaptic inhibition for sensory-motor control

Organizer: Eiman Azim

Participants: Eiman Azim, Nikolaos Balaskas, Pablo Rudomin, Jing Wang, Kazuhiko Seki, Thomas M Jessell, Elzbieta Jankowska

10:15 – 10:45 **Break**

10:45 – 13:00 **Session 6, Panel IV**

How Do We Learn Sensorimotor Maps from Scratch?

Organizer: David Ostry

Participants: David Ostry, Floris T van Vugt, Megan Thompson, Philip Sabes, Ferdinando A Mussa-Ivaldi

13:00 – 15:00 **Session 7, Posters 1b and Lunch**

15:00 – 16:30 **Session 8, Perspective I**

Distinct neural circuits for control of movement vs. holding still

Organizer: Reza Shadmehr

Participants: Reza Shadmehr, Robert Scheidt, Yifat Prut

16:30 – 17:00 **NCM Members Meeting**

All Members of the Society for the Neural Control of Movement are invited to attend

DAY 4 Thursday May 4, 2017

08:00 – 9:40 **Session 9, Individual Presentations II**

Representation of Visuomotor Delay with Current State Information

Participants: Guy Avraham, Raz Leib, Assaf Pressman, Lucia S Simo, Amir Karniel, Lior Shmuelof, Ferdinando A Mussa-Ivaldi, Ilana Nisky

Vestibular prosthetic stimulation induces plasticity within vestibular reflex pathways that guides changes in motor performance

Participants: Diana E Mitchell, Charles C Della Santina, Kathleen E Cullen

Visual processing for saccades in rostral premotor cortex compared with frontal eye field

Participants: Jeffrey D Schall, Joshua D Cosman, Kaleb Lowe, Michelle S Schall, Wolf Zinke

Simultaneous recording from 96 extracellular electrodes in thalamus and basal ganglia of awake children during evaluation for deep-brain stimulation surgery for secondary dystonia

Participants: Terence D Sanger

Association of BDNF and dopaminergic polymorphisms with cognitive and sensorimotor functions in older adults

Participants: Kathleen E Hupfeld, Rachael D Seidler

9:40 – 10:00 **Break**

10:00 – 12:15 **Session 10, Panel V**

From single neurons to neural manifolds: A new framework for understanding neural control of movement

Organizer: Juan Gallego

Participants: Juan A Gallego, Emily R Oby, Surya Ganguli, Christian K Machens, Kenneth Harris

12:15 – 14:15 **Session 11, Posters 2a and Lunch**

13:30 – 16:00 **Session 14, Poster 3b**

Free Time and Ticketed Excursions

DAY 5 Friday May 5, 2017

08:00 – 10:15 **Session 12, Panel VI**

Neural Control and Recovery of Hand Function

Organizer: Tadashi Isa

Participants: Tadashi Isa, Stuart N Baker, Robert Brownstone, Monica A Perez

10:15 – 10:45 **Break**

10:45 – 12:45 **Session 13, Individual III**

Principles underlying feed-forward control of multi-jointed limbs

Participants: Vikas Bhandawat, Cynthia Hsu

Dorsal premotor cortex recruits primary motor cortex to compensate for altered dynamics

Participants: Matthew G Perich, Juan A Gallego, Lee E Miller

Characterizing percepts evoked via intracortical microstimulation delivered to human somatosensory cortex

Participants: Sharlene N Flesher, Jeffrey M Weiss, Elizabeth C Tyler-Kabara, Sliman J Bensaïa, Michael L Boninger, Jennifer L Collinger, Robert A Gaunt

Coding of hand postures and movements in somatosensory cortex

Participants: Sliman J Bensaïa, James J Goodman, Gregg A Tabot, Aneesha K Suresh, Nicholas G Hatsopoulos

Subcortical LFPs as an assistive control signal for Brain Machine Interfaces

Participants: Huiling Tan, Petra Fischer, Syed A Shah, Peter Brown

Neural Limits in Tracking High Bandwidth Movements

Participants: Shreya Saxena, Sridevi V Sarma, Munther Dahleh

12:45 – 14:45 **Session 14, Posters 2b and Lunch**

14:45 – 16:45 **Session 15, Tutorial**

What can mobile brain imaging with electroencephalography tell us about the neural control of movement?

Organizer: Daniel Ferris

Participants: Daniel P Ferris, Johanna Wagner, Klaus Gramann

16:45 – 18:00 **Session 16, Keynote Address**

Primate Specific Features of Corticospinal Control

Roger Lemon, PhD FMedSci, UCL Institute of Neurology, Queen Square

18:00 – 19:00 ***Closing Drinks Reception***