# NCM 27th Annual Meeting, Dublin, Ireland

## Individual Oral Presentations

**Representation of Visuomotor Delay with Current State Information**
Guy Avraham
Guy Avraham[1], Raz Leib[1], Assaf Pressman[1], Lucia Simo[2], Amir Karniel[1], Lior Shmuelof[1], Ferdinando Mussa-Ivaldi[2], Ilana Nisky[1]
*[1]Ben-Gurion University of the Negev, [2]Northwestern University*

**Coding of hand postures and movements in somatosensory cortex**
Sliman Bensmaia
James Goodman[1], Gregg Tabot[1], Aneesha Suresh[1], Nicholas Hatsopoulos[1], Sliman Bensmaia[1]
*[1]University of Chicago*

**Principles underlying feed-forward control of multi-jointed limbs**
Vikas Bhandawat
Vikas Bhandawat[2], Cynthia Hsu[2]
*[2]Duke University*

**Task-relevant motor variability is dynamically regulated by reward history**
Ashesh Dhawale
Ashesh Dhawale[1], Yohsuke Miyamoto[1], Maurice Smith[1], Bence Ölveczky[1]
*[1]Harvard University*

**Characterizing percepts evoked via intracortical microstimulation delivered to human somatosensory cortex**
Sharlene Flesher
Sharlene Flesher[1], Jeffrey Weiss[1], Elizabeth Tyler-Kabara, Sliman Bensmaia[2], Michael Boninger[1], Jennifer Collinger[1], Robert Gaunt[1]
*[1]University of Pittsburgh, [2]University of Chicago*

**Unmasking the emergence of automaticity through practice by limiting reaction times**
Robert Hardwick
Robert Hardwick[1], Alexander Forrence[1], John Krakauer[1], Adrian Haith[1]
*[1]Johns Hopkins University*

**Association of BDNF and dopaminergic polymorphisms with cognitive and sensorimotor functions in older adults**
Kathleen Hupfeld
Kathleen Hupfeld[1], Rachael Seidler[1]
*[1]University of Michigan*

**The speed of neural population dynamics as a neural code for motor timing**
Mehrdad Jazayeri
Mehrdad Jazayeri[1]
*[1]Massachusetts Institute of Technology*

**Vestibular prosthetic stimulation induces plasticity within vestibular reflex pathways that guides changes in motor performance**
Diana Mitchell
Diana Mitchell[1], Charles Della Santina[2], Kathleen Cullen[1]
*[1]McGill University, [2]Johns Hopkins University*

**The magnitude of implicit adaptation is limited by constant forgetting**
Ryan Morehead
Ryan Morehead[1], Maurice Smith[1]
*[1]Harvard University*

**Lasting clinical gains from stimulation-enhanced visuomotor adaptation in chronic stroke**
Jacinta O'Shea
Jacinta O'Shea[1], Patrice Revol[2], Helena Cousijn[1], Jamie Near[1], Pierre Petitet[1], Sophie Jacquin-Courtois[3], Heidi Johansen-Berg[1], Gilles Rode[3], Yves Rossetti[2]
*[1]University of Oxford, [2]Lyon Neuroscience Research Center, [3]Hospices Civils de Lyon Hôpital Henry Gabrielle*

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**Dorsal premotor cortex recruits primary motor cortex to compensate for altered dynamics**
Matthew Perich
Matthew Perich[1], Juan Gallego[1], Lee Miller[1]
*[1]Northwestern University*

**Simultaneous recording from 96 extracellular electrodes in thalamus and basal ganglia of awake children during evaluation for deep-brain stimulation surgery for secondary dystonia**
Terence Sanger
Terence Sanger[1]
*[1]USC*

**Neural Limits in Tracking High Bandwidth Movements**
Shreya Saxena
Shreya Saxena[1], Sridevi Sarma[2], Munther Dahleh[1]
*[1]Massachusetts Institute of Technology, [2]Johns Hopkins University*

**Visual processing for saccades in rostral premotor cortex compared with frontal eye field**
Jeffrey Schall
Jeffrey Schall[1], Joshua Cosman[1], Kaleb Lowe[1], Michelle Schall[1], Wolf Zinke[1]
*[1]Vanderbilt University*

**Subcortical LFPs as an assistive control signal for Brain Machine Interfaces**
Huiling Tan
Huiling Tan[1], Petra Fischer[1], Syed Shah[1], Peter Brown[1]
*[1]University of Oxford*

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

Menno Veldman
Menno Veldman[1], Natasha Maurits[1], Chris Mizelle[2], Tibor Hortobágyi[1]
*[1]University Medical Center, University of Groningen, [2]East Carolina University*