Linking primate brain circuits to behavior: advancements and applications

Sunday May 25, 2014
9AM to 4:45PM
Montreal Hilton Bonaventure

PRELIMINARY PROGRAM

Noise correlations and coding during spatial working memory
M. Leavitt and J. Martinez-Trujillo
McGill university

Functional role of cross frequency coupling in prefrontal and anterior cingulate cortices during attentional selection
B. Voloh and T. Womelsdorf
York university

Patient DF’s visual brain in action: the role of tactile and visual feedback
R. Whitwell, A. Milner, C. Cavina-Pratesi, M. Barat, and M. Goodale
University of Western Ontario

Increases in alpha and beta synchronization found in people with Parkinson’s disease following dance class
G. Levkov, P. Di Noto, R. Bar and J. DeSouza
York University

Micro-stimulation of premotor and motor cortex affects choice duration during dynamic decision-making
D. Thura and P. Cisek
Université de Montréal

Coffee Break
Generalization of Adapted Reaching Movements Reveals Individual Differences in Motor Learning Ability  
T. Cluff and S. Scott  
Queen’s University

Neural limits of visual motion-correlation detection  
A. Golzar, P. Boyraz, B. Tripp and E. Cook  
McGill University

Changes in contrast responses of cells in the primary visual cortex after deactivation of the pulvinar  
J. Lai and C. Casanova  
Université de Montréal

Weak visuomotor adaptation in the rapid online correction mechanism for visually-guided reaching movements  
S. Durocher, V. Gritsenko and J. Kalaska  
Université de Montréal

The role of the superior colliculus in the coordination of the pupil orienting response  
C. Wang and D. Munoz  
Queen’s University

Lunch Break

A brain network for strategic decision-making  
A. Parr, B. Coe, D. Munoz and M. Dorris  
Queen’s University

Visual remapping is more impaired in patients with unilateral parietal lesion than in hemidecorticate patients as revealed by novel version of the double step task  
K. Rath-Wilson and D. Guitton  
McGill University

Dynamics of peri-saccadic receptive fields in monkey area V4  
S. Neupane, D. Guitton and C. Pack  
McGill University
Cortical mechanisms underlying motor prediction
R. Hermosillo and P. van Donkelaar
University of British Columbia

Allocentric versus egocentric representation of remembered reach targets in human cortex
Y. Chen, S. Monaco, P. Byrne, X. Yan, D. Henriques and D. Crawford
York University

Coffee Break

Neural encoding of linear self-motion by otolith afferents
M. Jamali, J. Carriot and K. Cullen
McGill University

Tool incorporation in the body representation: do tools become hands in our brain?
L. Cardinali and J. Culham
University of Western Ontario

Evidence for a three-dimensional transformation of vestibular signals into body-centered coordinates in the rostral fastigial nuclei
C. Martin, J. Brooks and A. Green
Université de Montréal

Special Keynote

What simultaneously recorded neurons can tell us about how attention improves perception
Marlene Cohen
University of Pittsburgh