

**National Institute for Physiological Sciences (NIPS)  
Mini-International Symposium  
“Frontiers in Neural Control of Actions”**

**Data: June 17 (Mon), 2013**

**Place: Conference Room at NIPS 1F**

**Organized by Masahiko Takada (Kyoto Univ),  
Atsushi Nambu (NIPS), Tadashi Isa (NIPS), Yukio Nishimura (NIPS)**

Supported by Comprehensive Brain Science Network

***Program***

- 10:00-10:10     **Opening remark**  
Tadashi Isa  
*National Institute for Physiological Sciences, Japan*
- 10:10-10:40     **Resolving paradoxical effects of central serotonin depletion on punished behaviour: towards a unifying account of serotonin function.**  
Angela C. Roberts,  
*Dept Physiol, Dev, & Neurosci, Univ Cambridge, UK*
- 10:40-10:55     **Behavioral and cardiovascular biomarkers reveal two underlying dimensions of trait-like anxiety in primates.**  
Yoshiro Shiba<sup>1,2</sup>, Andrea M. Santangelo<sup>1,2</sup>, Katrin Braesicke<sup>1,2</sup>,  
Carmen Agustín-Pavón<sup>1,2\*</sup>, Gemma Cockcroft<sup>2,3</sup>, Mark Haggard<sup>3</sup>,  
Angela C. Roberts<sup>1,2</sup>  
<sup>1</sup>*Dept. Physiol, Dev & Neurosci, Univ Cambridge, UK.*  
<sup>2</sup>*Behav & Clinical Neurosci Inst, Univ Cambridge, UK.*  
<sup>3</sup>*Dept. Psychol, Univ Cambridge, UK.*
- 10:55-11:25     **Risk-responsive orbitofrontal neurons track salience acquired through associative learning**  
Masaaki Ogawa,  
*National Institute for Physiological Sciences, Japan*
- 11:25-11:55     **Genes selectively expressed in the primate neocortex: the functional significance and manipulation**  
Tetsuo Yamamori  
*National Institute for Basic Biology, Japan*
- 11:55-12:25     **Manipulation of primate neuronal circuits by the use of modified lentiviral vector with enhanced retrograde transport**  
Ken-ichi Inoue

*Primate Research Institute, Kyoto University, Japan*

- 12:25-13:30     **Discussion with Lunch**
- 13:30-14:00     **Probing the influence of basal ganglia input and output stages during different cognitive demands using saccades**  
Jay J. Jantz, Masayuki Watanabe, Douglas P. Munoz  
*Centre for Neuroscience Studies, Queen's University, Canada*
- 14:00-14:30     **Withholding of desired actions—a possible role of the subthalamic nucleus**  
Yoshihisa Tachibana  
*National Institute for Physiological Sciences, Japan*
- 14:30-15:00     **Non-linear dynamics in the basal ganglia**  
Olivier Darbin  
*University of South Alabama, USA & NIPS, Japan*
- 15:00-15:30     **Morphological re-evaluation of the network in basal ganglia**  
Fumino Fujiyama,  
*Doshisha University Graduate School of Brain Science, Japan*
- 15:30-15:45     **Coffee Break**
- 15:45-16:15     **Decoding Tourettism and its response to deep brain stimulation**  
Kevin McCairn  
*Primate Research Institute, Kyoto University, Japan*
- 16:15-16:45     **Functional role of dopamine D1 and D2 receptors in information processing through the basal ganglia**  
Satomi Chiken  
*National Institute for Physiological Sciences, Japan*
- 16:45-17:15     **Ventral striatum regulates activity of motor related areas during the recovery after spinal cord injury**  
Masahiro Sawada  
*National Institute for Physiological Sciences, Japan*
- 17:15-17:45     **Rehabilitation-based acceleration of corticospinal plasticity after traumatic brain injury**  
Hiroshi Nakagawa  
*Department of Molecular Neuroscience, Osaka University, Japan*
- 17:45-17:55     **Concluding remark**  
Masahiko Takada  
*Primate Research Institute, Kyoto University, Japan*
- 18:00-20:00     **Discussion with Dinner**