

April 17 (Fri)

09:30~09:40 Opening remark Mayu Takahashi

09:40~10:55 Session 1: Sensory Foundations & Circuits

09:40~10:05 Ziad Hafed (University of Tuebingen)
Differential contributions of superior colliculus and primary visual cortex to saccadic omission and saccadic suppression

10:05~10:30 Tatsuo Sato (Kagoshima University)
A dendritic basis for sensory tuning in the mouse primary visual cortex.

10:30~10:55 Martin Bohlen (Duke University)
Reliable and easily adoptable viral approaches for neurobiological studies of the primate visuomotor system

10:55~11:10 Coffee break

11:10~12:50 Session 2: Visuomotor Transformation & Human Action

11:10~11:35 Neeraj Gandhi (University of Pittsburgh) Signatures of target motion in the primate superior colliculus

11:35~12:00 Brian Corneil (University of Western Ontario) Responding when time is of the essence: A subcortical substrate for rapid responding

12:00~12:25 Seiji Ono (University of Tsukuba)
Active vision from perception to motor action

12:25~12:50 Marc Sommer (Duke University)
Neural mechanisms for stabilizing visual perception across saccades

12:50~13:00 Group photo

13:00~14:20 Lunch & poster

14:20~14:35 Session 3: Short talks

14:20~14:25 Ekaterina Sapozhnikova (Hafed Lab)
Primary visual cortex integrity is needed for normal auditory and visually-driven pupil dynamics

14:25~14:30 Takahiro Ando (Takahashi Lab)
Axonal trajectories of single medial vestibular nucleus neuron

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14:30~14:35 Wajd Amly (Isa Lab)
Frontal eye field inhibition disrupts saccade reaction time and express saccade generation in marmosets

14:35~14:40 Short break

14:40~16:20 Session 4: Cortical Control & Cognitive Monitoring

14:40~15:05 Jeffrey D Schall (York University)
Dorsomedial and Cingulate Cortex Contributions to Performance Monitoring

15:05~15:30 Ken-Ichiro Tsutsui (Tohoku University)
Dissociation of visuospatial and spatiomotor working memory by selective functional inhibition of the prefrontal and premotor cortex using online TMS

15:30~15:55 Oliver Tuescher (Leibniz Institute for Resilience Research)
Cognitive Motor Control in Mental Health and Resilience

15:55~16:20 Peter Janssen (KU Leuven)
A new brain-machine interface for navigation in virtual reality

16:20~16:35 Coffee break

16:35~17:50 Session 5: Cerebellar Dynamics & Predictive Control

16:35~17:00 Masaki Tanaka (Hokkaido University)
Cerebellar representation of error likelihood during saccades

17:00~17:25 Kathleen Cullen (Johns Hopkins)
How the cerebellum predicts voluntary self-motion: neural mechanisms for perceptual stability & motor precision

17:25~17:50 Stephen Lisberger (Duke University)
Smooth pursuit eye movements tell us how the brain can perform an arbitrary transformation of temporal dynamics

17:50~17:55 Closing remark Kathleen Cullen