Monday, May 9

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
7:00 pm	Dinner
8:00 pm	Session 1: Welcome and Opening Remarks Chair: Silvia Arber
8:00 pm	Naoshige Uchida , Harvard University <i>The nature of dopamine signals in various behavioral contexts</i>
8:30 pm	Eve Marder , Brandeis University Maintaining "good enough" motor performance with highly variable circuit components
9:00 pm	Refreshments available at Bob's Pub

NOTE: Meals are in the **Dining Room** Talks are in the **Seminar Room** Posters are in the **Lobby**



Tuesday, May 10

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 2 Chair: Salil Bidaye
9:00 am	Jeremy Dasen , NYU School of Medicine The ancient origins of circuit elements for land walking and the evolution of locomotor behaviors
9:30 am	Mei Zhen , Mt. Sinai Hospital/University of Toronto <i>Operation and orchestration of the reversal motor circuit in C. elegans</i>
10:00 am	Marta Zlatic, Janelia Research Campus/HHMI A disinhibition mechanism of sequence generation in Drosophila
10:30 am	Break
11:00 am	Session 3 Chair: Stefanie Hampel
11:00 am	David Kleinfeld, University of California, San Diego Brainstem circuits and cortical feedback for orofacial motor actions
11:30 am	Michael A. Long, NYU Langone Medical Center How does the brain generate behavioral sequences?
12:00 pm	Karel Svoboda, Janelia Research Campus/HHMI Probing frontal cortical networks during motor planning
12:30 pm	Lunch (service ends at 1:00 pm)
2:00 pm	Session 4 Chair: Josh Huang
2:00 pm	Abdel El Manira , Karolinska Institutet Modular organization of spinal circuits control the speed of locomotion
2:30 pm	Silvia Arber, University of Basel and FMI Organization and function of descending motor circuits
3:00 pm	Rui M. Costa , Champalimaud Neuroscience Programme Initiating self-paced actions and learning from it
3:30 pm	Break



4:00 pm	Session 5 Chair: Kazuo Kitamura
4:00 pm	Mitsuo Kawato , ATR Computational Neuroscience Labs Synchronization of Purkinje cells for controlling degrees of freedom in learning and control
4:30 pm	Megan R. Carey, Champalimaud Center for the Unknown Cerebellar contributions to coordinated locomotion in mice
5:00 pm	Poster reception
6:30 pm	Dinner
8:00 pm	Session 6 Chair: Rui Costa
8:00 pm	Okihide Hikosaka , National Eye Institute/NIH Parallel basal ganglia circuits for choosing good objects
8:30 pm	Jose M. Carmena, University of California, Berkeley Large-scale neural circuit dynamics during neuroprosthetic skill learning
9:00 pm	Refreshments available at Bob's Pub



Wednesday, May 11

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 7 Chair: Helen Lai
9:00 am	Samuel L. Pfaff , <i>HHMI/Salk Institute for Biological Studies</i> Satb2 controls spinal circuit assembly and is required for the execution of sensory- evoked motor behavior
9:30 am	Ole Kiehn , Karolinska Institutet Start and stop: A matter of excitation
10:00 am	Francesco Lacquaniti, University of Rome Tor Vergata Modular control of human locomotion
10:30 am	Break
11:00 am	Session 8 Chair: Akinao Nose
11:00 am	Fan Wang , Duke University Imaging and manipulating motor cortical ensembles encoding a skilled motor memory
11:30 am	Adam Hantman, Janelia Research Campus/HHMI Role of the cortico-cerebellar system in motor control
12:00 pm	Kathleen Cullen , McGill University Neural correlates of sensory prediction errors in monkeys: Evidence for internal models of voluntary self-motion in the cerebellum
12:30 pm	Lunch (service ends at 1:00 pm)
1:15 pm	Tour (optional - meet at reception)
2:00 pm	Session 9 Chair: Till Bockemühl
2:00 pm	Thomas Jessell , HHMI/Columbia University Neural circuits for adaptive motor behavior
2:30 pm	Martyn Goulding, Salk Institute for Biological Studies Sensorimotor control: the contribution of inhibition to touch and movement
3:00 pm	Lena Ting, Emory University Neuromechanical principles underlying sensorimotor modularity



3:30 pm	Break
4:00 pm	Session 10 Chair: Graziana Gatto
4:00 pm	Gwyneth M. Card , Janelia Research Campus/HHMI <i>TBD</i>
4:30 pm	Ansgar Büschges , University of Cologne Neural control of locomotion - insights from studying insect walking
5:00 pm	Richard S. Mann , Columbia University Genetic dissection of locomotion in Drosophila
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Session 11 Chair: Ansgar Büschges
8:00 pm	Edgar Garcia-Rill, University of Arkansas for Medical Sciences Arousal and motor control
8:30 pm	Sten Grillner , Karolinska Institutet Conservation of the basal ganglia as a mechanism for action selection
9:00 pm	Refreshments available at Bob's Pub



Thursday, May 12

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 12 Chair: Carmen Smarandache-Wellmann
9:00 am	Eugenia Chiappe , Champalimaud Foundation Visual neurons in action: Coupling locomotion to visual motion
9:30 am	Hans Straka, Ludwig-Maximilians-Universität München Impact of locomotor efference copies on sensory-motor transformation underlying gaze control
10:00 am	Break
10:30 am	Session 13 Chair: Barry Dickson
10:30 am	Roy E. Ritzmann , Case Western Reserve University Central complex as a sensorimotor center for context dependent movement
11:00 am	Florian Engert , Harvard University Distributed neural architectures for binocular visuomotor transformations in the larval zebrafish
11:30 am	Closing remarks
11:35 am	Lunch and Departure
12:00 pm	First shuttle to Dulles
1:00 pm	Second shuttle to Dulles
2:00 pm	Last shuttle to Dulles

