

**Salk Institute Motor Symposium
November 2, 2018**

7:30 am - Bus pickup downtown

8:00 - 9:15 am - Registration and Breakfast

9:15–10:45 am - Short Talk Session 1: Sensorimotor Circuits

9:15–9:30 am: Turgay Akay, Dalhousie University, Canada

Proprioceptive Control of Muscle Synergies during Normal and Cautious Walking

9:30–9:45 am: Aya Takeoka, KU Leuven, Belgium

Functional Local Proprioceptive Feedback Circuit Sustains Locomotor Recovery after Spinal Cord Injury

9:45–10:00 am: Sonia Paixao, Max Planck Institute of Neurobiology, Germany

Identification of Spinal Neurons Contributing to the Dorsal Column Projection and Mediating

Fine Touch and Corrective Motor Movements

10:00–10:15 am: Graziana Gatto, Salk Institute for Biological Studies, USA

Dissecting the Organization and Logic of Spinal Circuits for Sensorimotor Coding

10:15–10:30 am: Hendrik Wildner, University of Zurich, Switzerland

The Role of Inhibitory Pvalb Interneurons in Sensory Circuits

10:30–10:45 am: Yuanyuan Liu, Harvard Medical School, USA

Touch and Tactile Neuropathic Pain Sensitivity are set by Corticospinal Projections

10:45 – 11:15 am - Coffee Break

11:15–12:45 pm Short Talk Session 2: Interneurons, Motor Circuits and Breathing

11:15–11:30 am: Laurence Picton, Karolinska Institute, Sweden

Diversity of Glycinergic V0d Interneurons and their Function in the Zebrafish Locomotor Circuit

11:30–11:45 am: Lora Sweeney, Salk Institute for Biological Studies, USA

Defining Inhibitory Neurons for Limb and Thoracic Movement

11:45–12:00 pm: Ngoc Ha, Drexel University, USA

Intrinsic Properties and Connectivity of Spinal Flexor and Extensor Rhythm Generating Neurons

12:00–12:15 pm: Simon Danner, Drexel University

Interactions between Spinal Circuits and Afferent Feedback to Control Locomotion at Different Speeds:

Insights from Computational Modeling

12:15–12:30 pm: Sufyan Ashhad, University of California, Los Angeles, USA

Active Synchronization Underlies Rhythmogenesis in the preBötC Microcircuit

12:30–12:45 pm: Silvia Pagliardini, University of Alberta, Canada

Role of the Parafacial Respiratory Group in the Recruitment of Active Expiration During Sleep

12:45 – 2:15 pm – Lunch and Posters

2:15-2:45 pm: Adam Hantman, Janelia Research Campus, HHMI, USA

Neural Circuits of Dexterity

2:45–4:00 pm Short Talk Session 3: Supraspinal Systems and Behavior

2:45–3:00 pm: Shreyas M. Suryanarayana, Karolinska Institute, Sweden

Connectivity, Cytoarchitecture, Visual, Somatosensory and Motor Maps in the Lamprey Lateral Pallium – A

Primordial Vertebrate Cortex

3:00-3:15 pm: Nicole Mercer Lindsay, University of California, San Diego, USA

Motor Cortex Descending Projections Drive Orofacial Behaviors through Specific Brainstem Premotor Networks

3:15-3:30 pm: Spyridon Karadimas, University of Toronto, Canada

Sensory Cortical Control of Movement

3:30–3:45 pm: Matthew Becker, University of Colorado, USA

Control of Reach Kinematics by the Cerebellum

3:45–4:00 pm: Teja Pratap Bollu, Cornell University, USA

Motor Cortex Inactivation Contracts Tongue and Forelimb Trajectories in Mice

4:00 - 4:30 pm - Coffee Break

4:30 – 5:15 pm - Past and Future Perspectives

5:15 – 6:30 pm - Drinks and Posters

6:30 – 8:30 pm - Dinner

8:45 pm - Bus departs for downtown