

**Salk Institute Motor Symposium
November 11, 2016**

7:30 am - Bus pickup downtown

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

9:15–10:35 am - Short Talk Session 1: Spinal Sensorimotor Circuits 1

9:15–9:35 am: Victoria Abraira, Harvard Medical School

The Cellular and Synaptic Architecture of the Mechanosensory Dorsal Horn

9:35–9:55 am: Sonia Paixao, Max Planck Institute of Neurobiology, Germany

Characterization of Zic2+ Dorsal Spinal Neurons as Potential Integrators of Sensory and Motor Circuits

9:55–10:15 am: Stephanie Koch, Salk Institute for Biological Studies

RORb Interneurons Act as Spinal Filters for Refined Motor Movement.

10:15–10:35 am: Claire Wyart, ICM Paris, France

Mechanosensory Neurons Control the Timing of Spinal Microcircuits Selection during Locomotion

10:35–11:00 am - Coffee Break

11:00–12:20 pm - Short Talk Session 2: Spinal Sensorimotor Circuits 2

11:00–11:20 am: Filipe Nascimento, University of St Andrews, UK

The Role of the Sodium Pump in Mouse Spinal Locomotor Network Activity

11:20–11:40 am: Rebecka Bjornfors, Karolinska Institute, Sweden

Functional Diversity of Excitatory V0 INs in the Adult Zebrafish

11:40–12:00 pm: Simon Danner, Drexel University

*Comparative Modeling of Different Spinal Mechanisms for
Speed-dependent Gait Transitions in Quadrupeds*

12:00–12:20 pm: Jay Bikoff, Columbia University

The Diversity of Spinal Inhibitory Interneurons Delineates Variant Motor Microcircuits

12:20 – 1:20 pm – Lunch

1:20–2:10 pm - Plenary Lecture: Robert Brownstone, UC London, UK, & Dalhousie University, Canada

A Brief History of Spine: from Big Cats to Black Sixes

2:10–3:30 pm Short Talk Session 3: Supraspinal Systems and Behavior 1

2:10–2:30 pm: Jared Smith, Salk Institute for Biological Studies

Genetic-based Dissection Unveils the Inputs and Outputs of Striatal Patch and Matrix Compartments

2:30–2:50 pm: Roberto Lieras, Karolinska Institute, Sweden

Decoding the Midbrain Circuits Involved in Initiation of Locomotion and Context-dependent Gait Selection

2:50–3:10 pm: Jeremy Chopek, Dalhousie University

Medullary Reticular Formation Microcircuits Comprising Chx10 Neurons

3:10–3:30 pm: Anders Lunde, University of Oslo, Norway

*Transcription Factor Profiling of the Vestibulospinal System in Mouse and
Chicken Embryos by RNA Sequencing and Immunohistofluorescence*

3:30 – 4:00 pm - Coffee Break

4:00–5:00 pm Short Talk Session 4: Supraspinal Systems and Behavior 2

4:00–4:20 pm: Calvin Zhang, University of Arizona

Neural Mechanism of Optimal Limb Coordination in Crustacean Swimming.

4:20–4:40 pm: A.A. Kardamakis, Karolinska Institute, Sweden

Sensorimotor Circuit Function in Orientation and Avoidance - A Common Vertebrate Plan

4:40–5:00 pm: Andrew Miri, Columbia University

Behaviorally Selective Firing Dynamics Differentially Engage Motor Output Circuits

5:00pm–6:45 pm - Reception and Poster Session

6:45pm–8:30 pm – Dinner

8:45pm - Bus departs for downtown