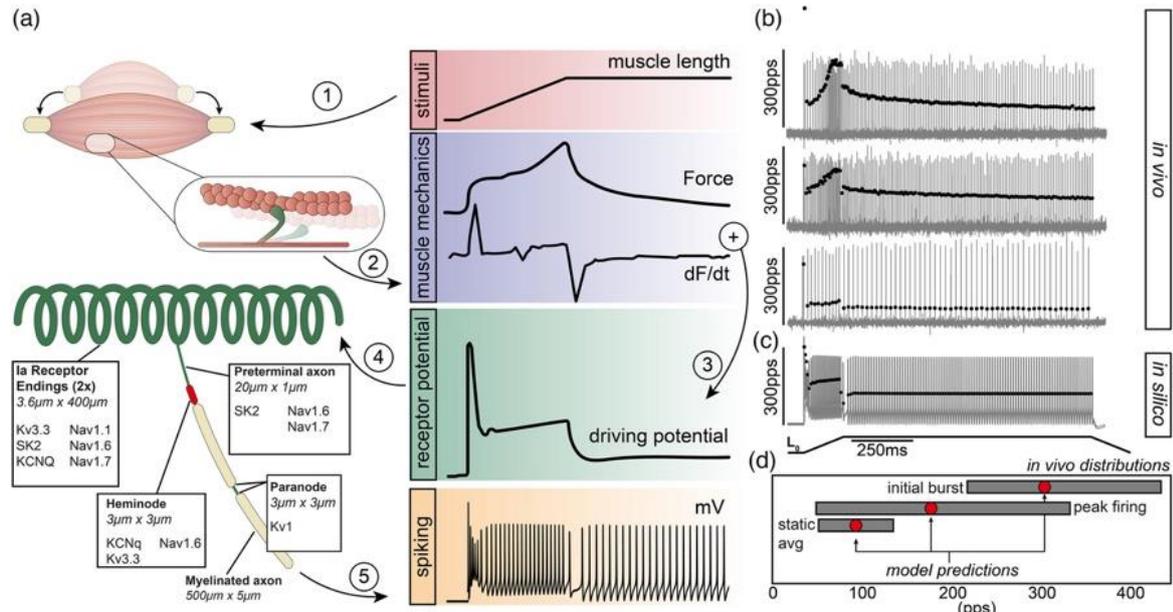


Provisional Programme 100326

The 3rd Mechanotransduction, Muscle Spindles and Proprioception conference

Monash Prato Campus
Via Pugliesi 26, 59100 Prato, Italy
June 29–July 1, 2026

Experimental
Physiology



Housley SN, Powers RK, Nardelli P, Lee S, Blum K, Bewick GS, Banks RW, Cope TC. Biophysical model of muscle spindle encoding. *Exp Physiol.* 2024 109: 55-65



Provisional Programme 100326

Monday, June 29

9:15-9:30

Bridgette Watkins & Vaughan Macefield

Welcome to the 3rd Conference

Session 1: Chair – Vaughan Macefield

9:30-10:30

Robert Banks

University of Durham, United Kingdom

Some properties of equatorial nuclear membranes

10:30-11:00

Morning Tea

11:00-11:30

Jente Wiliart

KU Leuven, Belgium

Altered muscle spindle responses in immobilised rats: investigating the interaction between muscle mechanics and spindle sensitivity

11:30-12:00

Arzu Petersen

Center of Anatomy and Cell Biology, Medical University Vienna, Austria

Molecular properties of muscle spindles in extraocular muscles of humans

12:00-12:30

Slav Bagriantsev

Department of Cellular and Molecular Physiology, Yale University, USA

Early origin of tactile acuity in the somatosensory system of vertebrates

12:30-2:00

Lunch

Session 2: Chair – Bridgette Watkins

2:00-2:30

Turkay Akay

Brain Repair Center, Department of Neuroscience, Dalhousie University, Canada

Proprioceptive feedback: a key driver of homolateral leg coordination during locomotion

2:30-3:00

Kazuhiko Seki

National Institute of Neuroscience, Japan

Optogenetic manipulation of large-diameter primary afferent feedback during voluntary movement in nonhuman primates

Provisional Programme 100326

3:00-3:30

Piotr Krutki

Department of Neurobiology, Poznan University of Physical Education,
Poland

Exercise-induced plasticity of Ia proprioceptive input to spinal motoneurons

3:30-4:00

Afternoon Tea

4:00-4:30

Vaughan Macefield

Department of Neuroscience, Monash University, Australia

Microelectrode recordings from muscle spindle afferents in the intrinsic muscles of the human foot during walking

4:30-5:00

TBA

5:00-7:00

Welcome Reception

Tuesday, June 30

Session 3: Chair – Véronique Marchand-Pauvert

9:00-10:00

Daniel Zytnicki

Université Paris Cité, CNRS, Saints-Pères Paris Institute for the Neurosciences,
France

Defective signalling from Ia spindle afferents to spinal motoneurons plays a key role in Amyotrophic Lateral Sclerosis

10:00-10:30

Katherine Wilkinson

School of Biological Sciences, San Jose State University, USA

Impaired muscle proprioceptor function in mouse models of two diseases that alter Piezo2 function, Angelman Syndrome and Distal Arthrogryposis subtype 5

10:30-11:00

Morning Tea

11:00-11:30

TBA

11:30-12:00

TBA

12:00-12:30

Provisional Programme 100326

TBA

12:30-2:00

Lunch

Session 4: Chair – Bob Banks

2:00-2:30

TBA

2:30-3:00

TBA

3:00-3:30

TBA

3:30-4:00

Afternoon Tea

4:00-4:30

TBA

4:30-5:00

TBA

6:00-9:00

Conference Dinner

Wednesday, July 1

Session 5: Chair – Guy Bewick

9:00-10:00

Véronique Marchand-Pauvert

Laboratoire d'Imagerie Biomédicale, Sorbonne Université, INSERM, CNRS, France
Patterned tendon vibration therapy enhances neuroplasticity in subacute post-stroke rehabilitation

10:00-10:30

TBA

10:30-11:00

Morning Tea

11:00-11:30

TBA

Provisional Programme 100326

11:30-12:00

TBA

12:00-12:30

TBA

12:30-2:00

Lunch

Session 5: Chair – Vaughan Macefield

2:00-2:15

Announcement of Prize Winners

2:15-2:30

Discussion on future meetings

2:30

End of Conference