

Organised by
Université Libre de Bruxelles Neuroscience Institute, and
Faculty of Sport Sciences & Human Performance Laboratory, Waseda University
at
ULB Neuroscience Institute, Université Libre de Bruxelles (Campus Erasme)
16th November 2019 (Saturday)

Electrophysiological and Imaging Approaches to Study the Neuro-Musculo-Mechanics of Human Movement

Program

9:00 – 9:30 : Welcome addresses and general introduction
Véronique Feipel and Jacques Duchateau
(Université Libre de Bruxelles, Belgium)

1. Hands-on Sessions

9:30 – 10:40 : Current knowledge and demonstration of ultrasound measurements
to study the characteristics of the muscle-tendon structures
Yasuo Kawakami (Waseda University, Japan)

10:50 – 12:00 : Current knowledge and demonstration of electrophysiological recordings
to study the spinal and supraspinal control of motor tasks
Stéphane Baudry (Université Libre de Bruxelles, Belgium)

12:00 – 12:30 : Discussion

12:30 – 13:30 : Lunch

2. Keynote Lectures

13:30 – 14:15 : Mechanical interactions between muscles through epimuscular connections
Huub Maas (Vrije Universiteit Amsterdam, the Netherlands)

14:15 – 15:00 : Fascial elasticity in walking
Adjo Zorn (Universität Ulm & Rolfing Berlin, Berlin, Germany)

15:00 – 15:45 : Musculotendinous dynamics and running performance
Benedicte Vanwanseele (Katholieke Universiteit Leuven, Belgium)

15:45 – 16:00 : Coffee break

3. Demonstrations

16:00 – 17:00 : Efficacy of novel material for surface electromyography
Shun Otsuka and Syo Mihara (Waseda University, Japan)

17:00 – 18:00 : Visualization of muscle in 3D by ultrasound
Guido Weide (Katholieke Universiteit Leuven, Belgium)

18:00 – 18:30 : General discussion

Networking Party (19:00 - 21:00; venue TBA)