



24/05/2013 5th Basel Muscle Symposium on skeletal muscle

Welcome

9.00-9.10

Calcium dysregulation and muscular related disorders:

- 9.10- 9.35 **Calcium dysregulation in patients undergoing anesthesia and intensive care treatment.** Albert Urwyler (Basel, Switzerland)
- 9.35-10.00 **Exon skipping as a therapeutic strategy applied to a RyR1 mutation causing severe core myopathy.** Isabelle Marty (Grenoble, France).
- 10.00-10.25 **Participation of Annexin-A5 in skeletal muscle membrane repair.** Anthony Bouter (Bordeaux, France)
- 10.25-10.50 **SEPN1- and RYR1-related myopathies: oxidative stress as a common pathomechanism and therapeutic target.** Ana Fereiro (Paris, France)

10.50-11.15 Coffee break

Genetics and proteomics

- 11.15-11.35 **Gai2 signaling promotes skeletal muscle hypertrophy, myoblast differentiation and regeneration via PKC- and HDAC- dependent pathways.** Mara Fornaro (Basel, Switzerland).
- 11.35-12.00 **High-throughput sequencing technologies – promises and pitfalls.** Clemens Müller (Würzburg, Germany)
- 12.00-12.25 **Divergent omega pore currents in Cav1.1 channelopathies.** Frank Lehman-Horn (Ulm, Germany)
- 12.25- 12.50 **Next generation sequencing in malignant hyperthermia and related conditions.** Phil Hopkins (Leeds, UK)

Lunch 12.50-14.00

Muscle function, fatigue and ageing

- 14.00-14.25 **Microtubule network stability modulates stretch dependent ROS and Ca²⁺ signaling in striated muscle.** Christopher Ward (Baltimore USA).
- 14.25-14.50 **Muscle membrane dysfunction in critical illness myopathy.** Werner Z'Graggen (Bern, Switzerland)
- 14.50-15.15 **Non-invasive-stimulated muscle force assessment.** Hans Ginz (Lörrach, Germany)

15.15-15.45 **‘The bad architect’- Second harmonic generation microscopy reveals cellular structural defects in chronic muscle diseases during aging that may explain progressive weakness.** Oliver Friedrich (Erlangen-Nuremberg, Germany).

15.45- 16.00 Coffee break

Novel tools and insights into muscle excitation-contraction coupling

16.00-16.25 **Crystal structures and models of novel domains in the Ryanodine Receptor.** Filip VanPetegem (Vancouver, Canada)

16.25-16.50 **Three dimensional mapping of the ryanodine receptor assembly.** Do Han Kim (Guanju, Korea).

16.50-17.15 **Optogenetics in muscle cells: A new tool for light-induced depolarisation in muscle cells.** Tobias Bruegmann (Bonn Germany)

17.15-17.40 **Ion channels in the Transverse Tubular System of Mammalian Skeletal Muscle Fibers.** Julio Vergara (Los Angeles, USA)

17.45-17.50 Concluding remarks