Conference on Structure and Dynamics of the Sarcomere
4-6 May 2016
Hotel M, Belgrade, Serbia

PROGRAM

Wednesday 4 May

11:30 - 13:30 **REGISTRATION**

13:30 - 14:00 **OPENING REMARKS**

14:00 - 15:00 **Giorgio Valle**
Genes, functions and phenotypes: past, present and visions for the future

15:00 - 15:30 **Mathias Gautel**
The intrasteric regulation of sarcomeric alpha-actinin: insight into Z-disk assembly and a foundation to understand hereditary myopathies

SESSION 1: STRUCTURE OF THE SARCOMERE

15:30 - 16:00 **Pradeep Luther**
Molecular structure of the Z-band in vertebrate muscle

16:00 – 16:30 **Kristina Djinovic Carugo**
Toward the molecular structure of muscle Z-disk: by lego building blocks

16:30 - 17:00 **Roberto Steiner**
Toward the molecular structure of the M-band: by lego building blocks

17:00 - 17:15 **Vid Puz**
Structural insight into the myotiolin-actin interaction

17:15 - 17:30 **Antonio Sponga**
Structural characterization of FATZ-1 in complex with α-actinin-2

17:30 – 17:45 **Phillip Hornburg**
Structural investigation and characterization of the Titin-Obscurin complex from the Z-disk in the sarcomeric structure of muscle cells

17:45 - 20:00 **POSTER SESSION / DINNER**

Thursday 5 May

SESSION 2: DECIPHERING THE FUNCTION OF SARCOMERIC PROTEINS, part I

09:00 - 09:30	**Bjarne Udd** Complex titin processing of normal C-ter and in titinopathies
09:30 - 10:00	**Ralph Knoell** ZBTB17, cell survival and heart failure
10:00 - 10:15	**Vincenzo Sorrentino** Loss of sarcomeric M-line organization in the diaphragm muscle of obscurin knockout mice following exercise
10:15 - 10:30	**Julia Schuld** *Xirp1/Xirp2*$^{ko/kd}$ mice show fiber type-specific hypertrophy of skeletal muscles
10:30 - 11:00	**COFFEE BREAK**
11:00 - 11:30	**Wolfgang Linke** Titin determines passive and active mechanical properties of the sarcomere
11:30 - 12:00	**Dieter Fürst** Regulation of Filamin C dynamics in muscle cells
12:00 - 12:15	**Marie-Louise Bang** Myopalladin promotes muscle growth through activation of the MRTF-SRF pathway
12:15 - 12:30	**Jovana Jasnic-Savovic** Differential expression and localization of Ankrd2 isoforms in human skeletal and cardiac muscles
12:30 - 14:00	**POSTER SESSION / LUNCH**

SESSION 3: DECIPHERING THE FUNCTION OF SARCOMERIC PROTEINS, part II

14:00 - 14:30	**Belinda Bullard** The importance of obscurin and the kinase domains in the development of a normal sarcomere
14:30 - 15:00	**Elisabeth Ehler** Formins follow function - also in the sarcomere
15:00 - 15:15	**Eyal Schejter** The Fhod-family formin Fhos is a major mediator of sarcomeric thin filament array assembly and maturation in *Drosophila* indirect flight muscles
15:15 - 15:30	**Arkadi Shwartz** Maintenance of sarcomeric thin filament arrays in Drosophila indirect flight muscles
15:30 - 16:00	**COFFEE BREAK**

SESSION 4: ZEBRAFISH IN MUSCLE RESEARCH

16:00 - 16:30 **Didier Stainier**
Imaging cardiac formation and function in zebrafish

16:30 - 17:00 **Wolfgang Rottbauer**
Zebrafish models for sarcomeric diseases – a medical perspective

17:00 - 17:30 **Anders Arner**
Physiological studies of muscle in zebrafish larvae – exploring mechanisms in human muscle disease

17:30 - 17:45 **Srdjan Boskovic**
Characterization of MARPs in zebrafish

17:45 - 20:00 **POSTER SESSION / DINNER**

Friday 6 May

SESSION 5: DISEASES OF THE SARCOMERE /PART I

09:00 - 10:00 **Hanns Lochmüller**
TREAT-NMD neuromuscular network & other international initiatives for translational research

10:00 - 10:30 **Homa Tajsharghi**
Myosin heavy chains isoforms and myosin myopathies

10:30 - 10:45 **Zacharias Orfanos**
Sarcomeric damage *in vitro* and in muscular disease

10:45 - 11:00 **Ehab Essawy**
Signaling genes expression and muscle adaptability after Botulinum Toxin type-A injection in spastic CP muscle

11:00 - 11:30 **COFFEE BREAK**

SESSION 6: DISEASES OF THE SARCOMERE / PART II

11:30 - 12:00 **Katarina Pelin**
Molecular diagnostic of nemaline myopathy and related disorders caused by nebulin mutations

12:00 -12:30 **Annemieke Aartsma-Rus**
Dystrophin domains and function: considerations for antisense-mediated exon skipping

12:30 - 12:45 **Jelena Nikodinovic Glumac**
A novel recessive *TTN* founder mutation is causing a distal myopathy phenotype in a Serbian patient cohort

12:45 - 13:30 **CLOSING REMARKS AND LUNCH**