



Molecular mechanisms of muscle growth and wasting in health and disease

Congressi Stefano Franscini, Monte Verità, Ascona, Switzerland
September 20 - 25, 2015

SUNDAY

Arrival

16.00 - 18.00

Registration

18.00 -19.00

Reception

Keynote Lecture

19.00

Kevin Campbell

Novel glycosylation required for skeletal muscle function

followed by an "icebreaker"

MONDAY		21.09.2015
08.30 - 08.50	Welcome address from CSF and Monte Verità	
	Session	Development and repair of skeletal muscle
	<u>Chair</u>	Robert Krauss
Speakers		
08.50 - 09.15	Bradley Olwin	<i>Rescue of a cell-autonomous loss of asymmetric division and self-renewal in aged skeletal muscle stem cells</i>
09.15 - 09.40	Andrew Brack	<i>Evidence for functionally distinct satellite cell populations</i>
Short talks		
09.40 - 09.55	Aaron Hinken	<i>Identification of protein modulators of muscle satellite cell differentiation</i>
09.55 - 10.10	Angelika Meier	<i>Senescence indicators in sarcopenic muscles</i>
10.10 - 10.40		Coffee Break
Speakers		
10.40 - 11.05	Thomas Braun	<i>Epigenetic regulation of skeletal muscle stem cells</i>
11.05 - 11.30	Colin Crist	<i>Skeletal muscle stem cell self-renewal and quiescence requires eIF2α phosphorylation</i>
Short talks		
11.30 - 11.45	Shihuan Kuang	<i>Distinct roles of PTEN in quiescent satellite cells and activated myoblasts</i>
11.45 - 12.00	Rémi Mounier	<i>AMPKα1 controls muscle stem cell self-renewal by modulating energetic metabolism</i>
12.00 - 13.30		Lunch Break
	Session	Development and repair of skeletal muscle & disease of the nerve-muscle connection
	<u>Chair</u>	Markus Ruegg
Speakers		
13.30 - 13.55	Douglas Millay	<i>Satellite cell fusion and muscle growth</i>
13.55 - 14.20	Benedicte Chazaud	<i>Cell autonomous and environmental cues regulating myogenic precursor cells in degenerative myopathies</i>
Short talks		
14.20 - 14.35	Eyal Bengal	<i>P38 MAPK signaling regulates atrophy of denervated muscle via the control of autophagic flux</i>
14.35 - 14.50	Libera Berghella	<i>Role of HDAC4-Msy3-myogenin network in muscle wasting progression upon skeletal muscle denervation</i>
14.50 - 15.20		Coffee Break
Speakers		
15.20 - 15.45	Hanns Lochmuller	<i>Clinical phenotypes and molecular mechanisms of inherited neuromuscular transmission disorders (congenital myasthenic syndromes)</i>
15.45 - 16.10	Kenneth H. Fischbeck	<i>Spinal and bulbar muscular atrophy: pathophysiology and therapeutics development</i>
Short talks		
16.10 - 16.25	Laure Strohlic	<i>MuSK Frizzled like domain is critical for mammalian neuromuscular junction formation and maintenance</i>
16.25 - 16.40	Justin Fallon	<i>MuSK is a BMP co-receptor that shapes BMP responses in muscle cells</i>
17.00 - 19.00		Poster Session (with drinks and snacks)
19.15 - 20.45		Dinner

TUESDAY		22.09.2015
	Session Chair	Myogenesis, muscle function and ageing Benedicte Chazaud
Speakers		
08.50 - 09.15	Pura Muñoz-Cánoves	<i>Muscle stem cell dysfunction in aging and disease</i>
09.15 - 09.40	Vittorio Sartorelli	<i>The histone variant macroH2A1.2 is necessary for the activation of muscle enhancers and recruitment of the transcription factor Pbx1</i>
Short talks		
09.40 - 09.55	Aynur Kaya-Copur	<i>Discs large 5 shapes T-tubule formation during flight muscle development in Drosophila</i>
09.55 - 10.10	Pénélope Andreux	<i>Urolithin A induces mitophagy and improves muscle function during aging</i>
10.10 - 10.40		Coffee Break
Speakers		
10.40 - 11.05	Susan Hamilton	<i>RyR1 Myopathies</i>
11.05 - 11.30	Christoph Handschin	<i>Complex coordination of metabolic pathways by a PGC-1alpha-controlled transcriptional network in skeletal muscle</i>
Short talks		
11.30 - 11.45	Soumya Joseph	<i>Self-interaction of the dihydropyridine β1a subunit</i>
11.45 - 12.00	Paola Costelli	<i>PGC-1α overexpression promotes myogenesis: relevance to cancer-induced muscle wasting</i>
12.00 - 14.00		Lunch Break
Free Afternoon		
19.15 - 20.45		Dinner

WEDNESDAY 23.09.2015		
	Session Chair	Mechanisms controlling muscle size Pura Muñoz-Cánoves
Speakers		
08.50 - 09.15	Robert Krauss	<i>Late-onset myopathy in mice lacking group I PAKs</i>
09.15 - 09.40	Markus Ruegg	<i>mTORC1 signaling in skeletal muscle affects whole-body metabolism</i>
Short talks		
09.40 - 09.55	Gonzalo Blanco	<i>IGFN1 and MLTKβ play a role in muscle maintenance and growth</i>
09.55 - 10.10	Paul Gregorevic	<i>Transcriptional and proteomic analysis of follistatin expression in skeletal muscle identifies mechanisms of muscle hypertrophy</i>
10.10 - 10.40 Coffee Break		
Speakers		
10.40 - 11.05	Marco Sandri	<i>Novel ubiquitin ligases and signaling pathways that control muscle mass</i>
11.05 - 11.30	Mara Fornaro	<i>ATP Citrate Lyase (ACL): a novel regulator of skeletal muscle metabolism</i>
Short talks		
11.30 - 11.45	Sarah Hempenstall	<i>PABPN1; a novel regulator of muscle atrophy</i>
11.45 - 12.00	Lionel Tintignac	<i>Identification of TTC7B as a putative scaffolding adaptor of the Fbxo32-associated E3 ligase</i>
12.00 - 13.30 Lunch Break		
	Session Chair	Mechanisms of sarcopenia and cachexia Michael Rudnicki
Speakers		
13.30 - 13.55	Charlotte Peterson	<i>Satellite cell regulation of the muscle environment during adaptation and aging</i>
13.55 - 14.20	David Glass	<i>LncMyoD, which is a Long Non-coding RNA is necessary for skeletal myotube differentiation</i>
Short talks		
14.20 - 14.35	Cristina Mammucari	<i>The Mitochondrial Calcium Uniporter controls skeletal muscle trophism in vivo</i>
14.35 - 14.50	Isuru Wijesoma	<i>Myostatin promotes intestinal cancer and intestinal cancer-induced muscle wasting</i>
14.50 - 15.20 Coffee Break		
Speakers		
15.20 - 15.45	Sue Bodine	<i>The role of endoplasmic reticulum stress and autophagy in the attenuated recovery of muscle mass following disuse in aged rats</i>
15.45 - 16.10	Denis Guttridge	<i>NF-κB signaling in newborn muscles</i>
Short talks		
16.10 - 16.25	Vanina Romanello	<i>Contribution of mitochondrial dynamics to age-related muscle loss</i>
16.25 - 16.40	Giuseppina Caretti	<i>BRD4 blockade prevents skeletal muscle loss during cancer cachexia</i>
17.00 - 19.00 Poster Session (with drinks and snacks)		
19.15 - 20.45 Dinner		

THURSDAY		24.09.2015	
	Session Chair	Epigenetics and microRNAs in muscle function David Glass	
Speakers			
08.50 - 09.15	Jeffrey Dilworth	<i>Epigenetic antagonism of H3K27-modifying enzymes control satellite cell fate during muscle regeneration.</i>	
09.15 - 09.40	Karyn Esser	<i>Muscle specific loss of Bmal1 leads to disrupted tissue glucose metabolism and systemic glucose homeostasis</i>	
Short talks			
09.40 - 09.55	Francesco Zorzato	<i>Epigenetic changes as a common trigger of muscle weakness in congenital myopathies</i>	
09.55 - 10.10	Johan Holmberg	<i>MicroRNA expression profiling in laminin-211-deficient mice</i>	
10.10 - 10.40	Coffee Break		
Speakers			
10.45 - 11.10	Silvere van der Marel	<i>Incomplete repeat mediated epigenetic repression of DUX4 in FSHD</i>	
11.10 - 11.35	Fabio Rossi	<i>Fibrosis: a result or a cause of failed regeneration?</i>	
Short talks			
11.35 - 11.50	Francoise Helmbacher	<i>Deciphering tissue-specific origins of FSHD-like neuromuscular FATopathy</i>	
12.00 - 13.30	Lunch Break		
	Session Chair	Metabolic dynamics; interaction of skeletal muscle with other organs Bradley Olwin	
Speakers			
13.30 - 13.55	Delphine Duprez	<i>Mechanobiology of skeletal muscle during development</i>	
Short talks			
13.55 - 14.10	Jong-Sung Kang	<i>Prmt7 plays a critical role in maintenance of muscle mass and oxidative muscle metabolism</i>	
14.10 - 14.25	Yann-Gael Gangloff	<i>Inactivation of myogenic mTOR kinase activity severely impairs muscle integrity and whole-body homeostasis</i>	
	Session Chair	Muscular dystrophies and development of therapeutic strategies Kevin Campbell	
Speakers			
14.25 - 14.50	Michael Rudnicki	<i>Molecular regulation of muscle stem cell asymmetric division</i>	
14.50 - 15.15	Kevin Flanigan	<i>Alternate translational initiation of dystrophin: clinical and therapeutic implications</i>	
Short talks			
15.15 - 15.30	Sweta Girgenrath	<i>Integrin-αV mediated EMT is an EARLY signature of Laminin-deficient congenital muscular dystrophy (MDC1A)</i>	
15.30 - 15.45	Judith Reinhard	<i>Mechanisms and therapeutic approaches to counteract MDC1A: The role of laminin self-assembly and linkage to muscle membrane</i>	
15.45 - 16.15	Coffee Break		
16.15 - 16.25	CSF Award Ceremony		
Speakers			
16.25 - 16.50	Nina Raben	<i>Pompe disease: pathophysiology and novel approaches to therapy</i>	
16.50 - 17.15	Ana Buj-Bello	<i>Myotubular myopathy: from pathophysiology to therapy</i>	
Short talks			
17.15 - 17.30	Frederica Montanaro	<i>Activation of Hedgehog signalling halts disease progression in muscular dystrophy: differential impact on respiratory and limb muscles</i>	
19.15 -	Gala Dinner at Grotto Brogini		

FRIDAY

25.09.2015

Departure