

# 15<sup>th</sup> Swiss Meeting on Muscle Research Macolin / Magglingen 16<sup>th</sup>-18<sup>th</sup> November 2025

## **Preliminary Programme**



The Swiss Meeting on Muscle Research was launched by the FSRMM in 1996 based on the initiative of its former Scientific Director, Prof. Denis Monard, as a biannual meeting to learn about the progress of funded projects.

Meanwhile, it has developed into a meeting for all researchers working in basic science and clinics who are devoted to the understanding and treatment of neuromuscular diseases in Switzerland. The purpose of the meeting is to discuss the latest results, initiate collaborations, exchange samples and ideas and to get to know each other better.

To foster scientific exchange and to promote young scientists, the FSRMM keeps the participation in this meeting free of charge.

#### **Programme**

#### Sunday, November 16th

16:30-17:15 Arrival, Check-in

17:15-18:30 Welcome Apero

18:30-19:30 Dinner

19:30-19:35 Meeting opening (Alain Pfulg and Markus Rüegg)

19:35-20:20 Keynote lecture:

#### **Session 1: Fibrosis in neuromuscular disorders**

**Chair: Markus Rüegg** 

20:20-20:40 Persistent tissue regeneration and transforming growth factor-β induced fibrosis in the masseter muscle of mdx5Cv mice

Aouatef Djeraba Ait-Lounis, University of Geneva

20:40-21:00 Biofabrication of a 3D microphysiological platform for the study of the human muscle microenvironment in aging and disease

Simone Bersini, Ente ospedaliero cantonale, Lugano

#### Monday, November 17th

Session 1: New diagnostic approaches		Chair: Werner Z'Graggen
8:30-8:50	Towards an effective multimodal biomarker panel for ALS/FTD spect Nils Briel, Universitätsspital Zürich	rum diagnosis
8:50-9:10	ALS Registry Switzerland Jan Loosli, Universitätsspital Zürich	
9:10-9:30	Open and reproducible pipeline for the acquisition and analysis of me Facioscapulohumeral Muscular Dystrophy Claudia Weidensteiner, Universität Basel	uscle MRI data in
9:30-9:50	Open MRI Pipeline for muscle strain calculation Introduction Marta Brigid Maggioni, Universität Basel	
9:50-10:00	Téléthon	

10:00-10:30 Coffee break

Session 2: M	itocondrial involvement in health and disease	Chair: Antoine Clery	
10:30-10:55	The silent isoform: alternative splicing of PLIN3 reveals mitochondrial tar protein expression Axel Aguettaz, University of Lausanne	geting with elusive	
10:55-11:20	How does nutrition impact skeletal muscle metabolic health? Novel connections involving lipids Cassandra Tabasso, University of Lausanne		
11:20-11:45	An updated inventory of genes essential for oxidative phosphorylation id origin in familial Ménière's disease Marcell Harhai, University of Lausanne	entifies a mitochondrial	
11:45-12:10	New aspects of TGFβ signaling in muscle regeneration Jérémy Kessler, University of Geneva		
	12:10-13:30 Lunch		
Poster session	n		
13:30-15:30	ALL POSTERS, coffee and tea		
Session 3: N	luscle structure and performance	Chair: Susan Treves	
15:30-15:55	Characterization of skeletal muscles from STIM1L KO mice Stéphane Koenig, University of Geneva		
15:55-16:20	The novel roles of STIM1S and STIM1L in skeletal muscle architecture Tahir Idris, University of Geneva		
16:20-16:45	A subsynaptic kinase regulates muscle fiber identity and its restoration a cachexia Volkan Adak, University of Basel	meliorates cancer	
16:45-17:10	Zebrafish as a model for human skeletal muscle quality: identifying critical intervention  Mauricio Castro Sepulveda, University of Lausanne	al windows for	
17:10-17:35	Muscle spindle function and its impact on the musculoskeletal system Alexis Ruiz, University of Basel		
	17:35-17:45 Break		
Session 4: Sa	atellite cells and regeneration	Chair: Francesca Amati	
17:45-18:10	Chemical reprogramming of committed mouse myoblasts into myogenic cell characteristics  Ori Bar-Nur. ETH Zürich	stem cells with satellite	

18:10-18:35 Human muscle reserve cells represent a quiescent and heterogeneous stem cell population

characterized by distinct Pax7 expression and stem cell states

Thomas Laumonier, University of Geneva

18:35-19:00 Orai3 and AHNAK2 regulate the activation of human skeletal muscle stem cells in vitro Mélanie Forgeaud, University of Geneva

# 19:00-20:30 Dinner Poster prize committee meets over dinner

#### **Evening program**

20:30-23:00 free beer at poster site

### Tuesday, November 18th

Session 1: New therapeutic perspectives		<b>Chair: Christoph Handschin</b>
9:00-9:25	Wif1 modulates the inflammatory microenvironment in LAMA2 Mu Eleonora Maino, University of Basel	scular Dystrophy
9:25-9:50	Dual AAV gene therapy using laminin-linking proteins ameliorates in LAMA2-related muscular dystrophy Judith Reinhard, University of Basel	nuscle and nerve defects in
9:50-10:15	Pharmacological inhibition of LIN28 reverses dysregulated ion chan myotonic dystrophy Alok Behera, University of Geneva / ETH Zürich	nel and miRNA expression in
10:15-10:40	Lysosomal signalling meets glucose homeostasis: a novel perspective disease Andrea Armani, University of Zürich	e in the fight of Pompe
10:40-11:05	High pressure melts toxic fibrils and uncovers hidden biomolecular disease Mihajlo Novakovic, ETH Zürich	states driving neuromuscular

11:05-11:15 Concluding remarks and poster prizes (Markus Rüegg)

11:15-11:45 Coffee Break and Poster removal

Departure