



Program

SUNDAY	21.09.2025
	Arrival
16.00 - 18.00	Registration
18:00-19:00	Reception
19.00	Keynote Lecture 1 Helen Blau, Stanford University, USA <i>The pivotal role of the gerozyme 15-PGDH in muscle wasting with aging</i> followed by a welcome drink and a dinner

MONDAY		22.09.2025
08.30 - 08.50		
Welcome address from Centro Stefano Franscini and Monte Verità		
	Session 1 <u>Chair</u>	Stem cells and regeneration in aged and dystrophic muscle N.N.
Speakers		
08.50 - 09.15	Thomas Braun	CPT1A enables promoter-confined acetyl-CoA production to prevent muscle stem cell activation and myofiber hyperplasia
09.15 - 09.40	Foteini Mourikioti	New stem cell dynamics in acute and chronic muscle injuries
Short talks		
09.40 - 09.55	Donato D’Angelo	Role of mitochondrial calcium in the activation and differentiation of skeletal muscle stem cells and skeletal muscle regeneration
09.55 - 10.10	Cristina Mammucari	The role of testosterone in skeletal muscle mitochondrial calcium signalling
10:10 – 10:40		
Coffee break		
Speakers		
10.40 - 11.05	Markus Rüegg	Development of a gene therapy for laminin-α2-deficient muscular dystrophy
11.05 - 11.30	Michael Rudnicki	Developing innovative regenerative therapies for muscular dystrophy
Short talks		
11.30 - 11.45	Minchul Kim	Myonuclei turnover in homeostatic muscle
11.45 - 12.00	Volkan Adak	A subsynaptic kinase regulates muscle fiber identity and its restoration ameliorates cancer cachexia
12.00 - 13.30		
Lunch break		
	Session 2 <u>Chair</u>	Mechanisms involved in muscle function loss N.N.
Speakers		
13.30 - 13.55	Michael Hall	mTOR signaling in growth, metabolism and disease
13.55 - 14.20	Bert Blaauw	Nerve activity inhibits mTORC1-dependent protein synthesis in skeletal muscle
Short talks		
14.20 - 14.35	Qingshuang Cai	LSD1 inhibition circumvents glucocorticoid-induced muscle wasting of male mice
14.35 - 14.50	Akiyoshi Uezumi	Elucidation of the mechanism by which kranocyte aging leads to age-related degeneration of neuromuscular junctions
14.50 - 15.20		
Coffee break		
Speakers		
15.20 - 15.45	Simone Di Giovanni	Macrophages control muscle spindle activity and locomotion
15.45 - 16.10	Tom Cheung	Blood-based biomarkers for sarcopenia
Short talks		
16.10 - 16.25	Justin Fallon	Neuromuscular junction failure in aging correlates with muscle weakness, is linked to Nav1.4 loss, and is reversed by CIC-1 Inhibition

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16.25 - 16.40	Remi Mounier	Alterations of the TGFb-sequestration complex member ADAMTSL1 levels are associated with muscular defects and rhabdomyosarcoma aggressiveness
17.00 - 19.00	Poster Session (with drinks and snacks)	
19.15 - 20.45	Dinner	

TUESDAY 23.09.2025		
	Session 3	Size adaptation and muscle aging
	<u>Chair</u>	N.N.
Speakers		
08.50 - 09.15	Jorge L. Ruas	The other side of muscle E3 ligases, building instead of degrading
09.15 - 09.40	Doug Millay	Control of muscle size by nuclear number and transcriptional output
Short talks		
09.40 - 09.55	Sonia Sandhi	Effects of dietary restriction-induced longevity on muscle health and aging in the short-lived vertebrate, <i>Nothobranchius furzeri</i>
09.55 - 10.10	Andrea Graziani	Impaired cAMP/PKA/CREB1 signaling drives mitochondrial dysfunction in skeletal muscle in cancer cachexia
10.10 - 10.40	Coffee break	
Speakers		
10.40 - 11.05	Nathan LeBrasseur	Cellular senescence and skeletal muscle aging
11.05 - 11.30	Frank Schnorrer	The ageing Drosophila flight muscle
Short talks		
11.30 - 11.45	Tang Cam Phung Pham	Mitochondrial mRNA destabilization causes hypermetabolism and contributes to aging-related muscle wasting
11.45 - 12.00	Giulia Ferrarese	A new way of studying the muscular secretome in a prematurely aged model
12.00 - 13.30	Lunch break	
	Session 4	Age-associated cellular pathways
	<u>Chair</u>	N.N.
Speakers		
13.30 - 13.55	Tea Shavlakadze	Molecular signatures of aging: implications for skeletal muscle aging and sarcopenia
13.55 - 14.20	Daniel Ham	Identification, localization, and functional interrogation of pro-aging genes in sarcopenic mouse muscle
Short talks		
14.20 - 14.35	Anna Kneppers	Transcriptional rejuvenation of aged myofiber nuclei through myonuclear accretion
14.35 - 14.50	Tsai Shih-Yin	EIF4EBP1 activation as a therapeutic strategy to improve muscle proteostasis in sarcopenia
14.50 - 15.30	Coffee break	
15:30	Keynote Lecture 2	
	Guido KROEMER, Faculty of Medicine, University of Paris Cité, France	
	<i>Gerogenes as drivers of aging:</i>	
	<i>The example of acyl CoA binding protein/diazepam binding inhibitor (ACBP/DBI)</i>	
17.00 – 19.00	Poster Session (with drinks and snacks)	
19.15 - 20.45	Dinner	

WEDNESDAY		24.09.2025
	Session 5 <u>Chair</u>	Epigenetic processes in aging N.N.
Speakers		
08.50 - 09.15	Vittorio Sartorelli	Epigenetics of muscle aging
09.15 - 09.40	Yousin Suh	Mechanisms of ovarian aging: target for geroprotection in women
Short talks		
09.40 - 09.55	Jeffrey Kellu	Muscle-intrinsic circadian clock regulates night-time protein degradation to delay onset of sarcopenia
09.55 - 10.10	Paul Gregorevic	Temporal features in cachexia etiology with sex-based heterogeneity
10.10 - 10.40	Coffee break	
Speakers		
10.40 - 11.05	David Glass	The effects of aging on skeletal muscle function
11.05 - 11.30	Marco Bolis	The role of ectodysplasin-A2-receptor EDA2R in aging and inflammation
Short talks		
11.30 - 11.45	Danna Breen	Growth differentiation factor 11 (GDF-11) is not a key regulator of cancer cachexia
11.45 - 12.00	Martina Esposito	Fbxo30/MUSA1 is a novel critical regulatory element for Z-line homeostasis and skeletal muscle function
12.00 - 13.30	Lunch break	

AFTERNOON: free / Excursion

EVENING: free

THURSDAY25.09.2025		
	Session 6 <u>Chair</u>	New developments to target neuromuscular diseases N.N.
Speakers		
08.50 - 09.15	Frederic Relaix	Rat Duchenne muscular dystrophy models for preclinical studies and deciphering tissue repair mechanisms
09.15 - 09.40	Jeffrey Chamberlain	Increasing the potency of AAV-dystrophin vectors
Short talks		
09.40 - 09.55	Alan Russell	Development of a fast skeletal muscle myosin inhibitor for Becker Muscular Dystrophy and beyond
09.55 - 10.10	Simone Spuler	Dual precise repair of disease-causing mutations in compound heterozygous muscular dystrophy
10.10 - 10.40	Coffee break	
Speakers		
10.45 - 11.10	Carsten Bönnemann	Preclinical precision genetic therapy developments for the collagen VI related muscular dystrophies
11.10 - 11.35	Kevin Campbell	Structural insights into dystroglycan function: unveiling the pathogenesis of muscular dystrophy
Short talks		
11.30 - 11.45	Sweta Girgenrath	EEV-mediated delivery to satellite cells: Towards a comprehensive correction of pathophysiology in a preclinical model of Duchenne Muscular Dystrophy.
11.45 - 12.00	Eleonora Maino	Wif1 modulates the inflammatory microenvironment in LAMA2 muscular dystrophy
12.00 - 13.30	Lunch break	
	Session 7 <u>Chair</u>	Effect of muscle on metabolism and vice versa N.N.
Speakers		
13.30 - 13.55	Jerome Feige	Targeting mitochondria with nutrition in humans
13.55 – 14.20	Katrien De Bock	Metabolic crosstalk in the muscle microenvironment
Short talks		
14.20 - 14.35	Giuseppina Caretti	BET inhibitors rewire lipid metabolism in the aged skeletal muscle
14.35 - 14.50	Erika Di Domenico	Unraveling the role of the multifaceted protein HMGB1 in maintaining tissue homeostasis upon aging: spotlight on fat and skeletal muscle
14.50 – 15.15	Coffee break	
Speakers		
15.15 - 15.40	Jason Mastaitis	Myostatin and activin A-inhibition to improve weight loss quality with GLP-1
15.40 - 16.05	Bo Falck Hansen	A human muscle 3D system representing mature muscle
Short talks		

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16.05 - 16.20	Stella Monestier	Biofabrication of a 3D human skeletal muscle microenvironment to study the early steps of fibrosis
16.20 - 16.35	Eloisa Turco	Alterations in peroxisomal-mitochondrial interplay in skeletal muscle accelerate muscle dysfunction

16.45	Poster Award Ceremony
19:00	Transfer to restaurant

GALA DINNER

FRIDAY	26.09.2025	Departure
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