53RD EUROPEAN MUSCLE CONFERENCE

6 – 9 September 2026, Vienna, Austria

Venue:

University Biology Building (UBB)

Djerassiplatz 1, 1030 Vienna

WELCOME to the 53rd European Muscle Conference

We are pleased to announce that the 53rd European Muscle Conference 2026 will take place in Vienna, Austria at the University of Vienna.

The scientific programme will cover a broad spectrum of muscle research, ranging from molecular structure to whole body physiology and pathophysiology, with a particular focus on current advances and future directions in the field.

Keeping with the EMC tradition, we aim to provide an inspiring environment that fosters both the meeting of experts in a wide range of specialist topics and interdisciplinary dialogue. We would also like to highlight the Young Investigators Symposium, organized by the ESMR-Early Careers Association.

This symposium will offer PhD students and early-stage postdocs the unique opportunity to present and discuss their work with peers and established researchers. It will take place on the morning before the official opening of the conference.

Keynote speakers and the full scientific programme will be announced in due course. We warmly invite you to join us in Vienna for the EMC 2026 and look forward to welcoming you for an exciting and inspiring meeting.

Kristina Djinovic Carugo
Professor at the University of Vienna

Sponsoring:

The following institutions and companies have provided generous sponsorship for our meeting, and we wish to thank them for their support:

AGADA Biosciences Inc.
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WE HOPE YOU ENJOY THE MEETING !

Organizing committee: Kristina Djinovic-Carugo, Elisabeth Ehler, Attila Kiss, Xaver König, Lilli Winter

ECA Committee: Franziska Koser, Maicon Landim-Vieira

Local Committee: Diana Fritz, Iris Gruber, Sabine Huisman, Stasa Milusic, Nino Racel, Claudia Schreiner, Alexandra Wassipaul

Conference Coordinator: Kristina Djinovic

Scientific Program: Organizing committee

TRANSPORTATION

The University of Vienna Biology Building (UBB) is located at Djerassiplatz 1, 1030 Vienna in the St. Marx area.

Public Transit Options

- **Subway:** Line U3 to stop Schlachthausgasse
- **Tram:** Line 18 to stop Viehmarktgasse or Line 71 to stop St. Marx.
- **Bus:** Line 74A to stop Viehmarktgasse.

- **Arriving from Vienna International Airport**
- Take the **Railjet train** directly to **Hauptbahnhof station**. From there take tram 18 to stop Viehmarktgasse.
  Note that because the airport is outside the city limits, you need an extra ticket extension if you already have a Vienna public transit pass.
- The **City Airport Train (CAT)** is a direct express service connecting Vienna International Airport non-stop with the central transit hub *Wien Mitte*. From there you can take the bus 74A to the UBB.
  Important Route Update: Due to major rail network renovations in the city, **between September 7, 2026, and October 31, 2027, the CAT will temporarily operate as a high-quality premium bus service** rather than a train. To maintain fast travel times, they are bumping up service frequency to **every 12 minutes** in each direction.

Download info folder from airport VIE to city center here

Please also check information on Getting around in Vienna

We recommend installing the WienMobilApp on your mobile.:
https://www.wien.info/en/travel-info/transport/wienmobil-365934

PROGRAMME

ECA (Sunday): University Biology Building (UBB), 10:00 am – 2:00 pm

Main meeting (Monday – Wednesday): University Biology Building (UBB)

EMC side event (Monday): Visit to the Natural History Museum

EMC conference dinner (Tuesday): Boat trip on the Danube

GOOGLE MAP LOCATIONS OF THE ABOVE VENUES

University Biology Building (UBB): Djerassiplatz 1, 1030 Vienna

Natural History Museum: Burgring 7, 1010 Vienna

Trip on the Danube: Handelskai 265, 1020 Vienna

REGISTRATION TIME AND LOCATION

Date: Sunday, 6 September, 2026

Time: 2:00 pm – 4:00 pm

Location: University Biology Building (UBB): Djerassiplatz 1, 1030 Vienna

FLOORPLAN

SCHEDULE OVERVIEW

	EMC European Muscle Conference 2026			
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY
	September 6	September 7	September 8	September 9
09:00 - 09:30		S01 - Regulation of Contraction by Thick and Thin Filament Chair: Malcolm Irving, King's College London, UK	S05 - Data Science in Muscle: from -omics to Physiology Chair: Manuel Mayr, Imperial College London, UK	S08 - Cardiomyopathies Chair: Gavin Oudit, University of Alberta, Edmonton, CA
09:30 - 10:00				
10:00 - 10:30	ECA (Early Careers Association) SYMPOSIUM			
10:30 - 11:00		COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
11:00 - 11:30		S02 - Excitation-Contraction Coupling Chair: Bruno Allard, University Bernard Lyon, FR	S06 - Muscle Energetics Chair: Sergej Pirkmajer, University of Ljubljana, SLO	S09 - Skeletal Myopathies Chair: Lilli Winter, Medical University, Vienna, AT
11:30 - 12:00				
12:00 - 12:30				
12:30 - 13:00		LUNCH and POSTER SESSION (Session 1 - 6)	LUNCH and POSTER SESSION (Session 7 - 10)	LUNCH
13:00 - 13:30				
13:30 - 14:00				S10 - Innovations in Human Disease Models Chair: Francesco Saverio Tedesco, Francis Crick Institute, London, UK
14:00 - 14:30	EMC REGISTRATION	S03 - Cytoskeleton Chair: Elisabeth Ehler, King's College London, UK	S07 - Muscle Mechanobiology Chair: Giancarlo Forte, King's College London, UK	
14:30 - 15:00				
15:00 - 15:30				CLOSING SESSION and AWARDS
15:30 - 16:00		COFFEE BREAK	ESMR Meeting and INDUSTRY Presentations	
16:00 - 16:30	16:00-16:15 OPENING SESSION	S04 - Muscle Structure Chair: Mathias Gautel, King's College London, UK		
16:30 - 17:00	16:15-17:15 EMC KEYNOTE LECTURE			
17:00 - 17:30				
17:30 - 18:00	From 17:15 EMC WELCOME RECEPTION			
18:00 - 18:30				
18:30 - 19:00		EMC SIDE EVENT	EMC CONFERENCE DINNER	
19:00 - 19:30				
19:30 - 20:00	ECA SIDE EVENT			
20:00 - 20:30		Visit to the Natural History Museum	Boat trip on the Danube	
20:30 - 21:00				
21:00 - 21:30				

MEETING SCHEDULE IN DETAIL

SUNDAY,
September 6, 2026

10:00 am – 2:00 pm University Biology Building, HS1	ECA (Early Career Association)	Annika J. Klotz, University of Muenster, DE; Theresa K. Hofmann, University of Muenster, DE	Emrulla Spahiu, Hannover Medical School,DE; Philipp Galuska, University of Vienna, AT
2:00 pm – 4:00 pm	EMC Registration		Iris Gruber Sabine Huisman
4:00 pm – 4:15 pm	EMC Opening Session		Vice Rector Manuela Baccarini
4:15 pm – 5:15 pm	EMC Keynote Talk		Eric P Hoffman Binghamton University
5:15 pm – 7:30 pm	EMC Welcome Reception		
7:30 pm – 9:30 pm	ECA Side Event		

MONDAY,
September 7, 2026

9:00 am – 10:30 am University Biology Building, HS1	**S01: Regulation of Contraction by Thick and Thin Filament**	**Chair: Malcolm Irving** King's College London, UK **Co-Chair: Neil Kad**, University of Kent, Canterbury, UK	**Invited speaker: Luca Fusi** King's College, London, UK **Invited speaker: Neil Kad** University of Kent, Canterbury, UK
		Contr. talk: Weikang Ma, Illinois Institute of Technology, US **Contr. talk: Belinda Bullard**, Department of Biology, University of York, UK	
10:30 am – 11:00 am	Coffee Break		
11:00 am – 12:30 pm	**S02: Excitation-Contraction Coupling**	**Chair: Bruno Allard** University Bernard Lyon, FR **Co-Chair: Xaver König,** Medical University Vienna, AT	**Invited speaker: Elena Lilliu**, Medical University of Vienna, AT **Invited speaker: Marta Campiglio**, Medical University of Innsbruck, AT
		Contr. talk: Theresa Hofmann, Universitätsklinikum Münster, DE **Contr. talk: Vincent Jacquemond**, CNRS-Univ Lyon UMR5261 - Inserm U1315, FR	
12:30 pm – 2:00 pm	Lunch and Poster Session 1-6		
2:00 pm – 3:30 pm	**S03: Cytoskeleton**	**Chair: Elisabeth Ehler** King's College, London**, UK** **Co-Chair: Nicole Dubois**, Icahn School of Medicine at Mount Sinai, NY, US	**Invited speaker: Henk Granzier** University of Arizona, Tucson, US **Invited speaker: Nicole Dubois** Mount Sinai, NY, US
		Contr. talk: Matthew Stroud, King's College London, UK **Contr. talk: Mónika Gönczi**, University of Debrecen, HU	
3:30 pm – 4:00 pm	Coffee Break		

4:00 pm – 5:30 pm	**S04: Muscle Structure**	**Chair: Mathias Gautel** King's College, London, UK **Co-Chair: Alicia Peschel** Max Planck Institute of Molecular Physiology, Dortmund, DE	**Invited speaker: Charlie Scarff** University of Leeds, UK **Invited speaker: Roberto Dominguez** University of Pennsylvania, US
		Contr. talk: Alicia Peschel, Max Planck Institute of Molecular Physiology, Dortmund, DE **Contr. talk: Aditya Aniruddha** Sane, IBDM Marseille, FR	
Grab a snack before you leave for the Museum			
5:30 pm – 6:30 pm Natural History Museum, Burgring 7, 1010 Vienna *	**Transfer to Natural History Museum**		
6:30 pm – 8:30 pm	**EMC Side Event**	**Visit to the Natural History Museum**	

TUESDAY,
September 8, 2026

9:00 am – 10:30 am University Biology Building, HS1	**S05: Data Science in Muscle: from -omics to Physiology**	**Chair: Manuel Mayr** Imperial College London, UK **Co-Chair: Isabel Martin,** Universität Konstanz, DE	**Invited speaker: Manuel Mayr** Imperial College, London, UK **Invited speaker: Marcus Krueger**, University of Cologne, Germany, DE
		Contr. talk: Alexandra Winant, University of Copenhagen, DK **Contr. talk: Cinzia Barresi**, Medical University of Vienna, AT	
10:30 am – 11:00 am	Coffee Break		
11:00 am – 12:30 pm	**S06: Muscle Energetics**	**Chair: Sergej Pirkmajer** University of Ljubljana, Slovenia, SLO **Co-Chair: Natasa Nikolic**, University of Oslo, NO	**Invited speaker: Eili Tranheim Kase** University of Oslo, NO **Invited speaker: Nejc Umek** University of Ljubljana, Medicinska fakulteta, SLO
		Contr. talk: Jana Disch, IMSB Universität Stuttgart, DE **Contr. talk: Maria Jolanta Rędowicz**, Nencki Institute of Experimental Biology, Warszawa, PL	
12:30 pm – 2:00 pm	Lunch and Poster Session 7- 10		
2:00 pm – 3:30 pm	**S07: Muscle Mechanobiology**	**Chair: Giancarlo Forte,** King's College London, UK **Co-Chair: Matt Stroud,** King's College London, UK	**Invited speaker: Dominic del Re** Rutgers New Jersey Medical School, US **Invited speaker: Giancarlo Forte** King's College London, UK
		Contr. talk: Annika J. Klotz, University of Muenster, DE **Contr. talk: Luuk Kemna**, Amsterdam University Medical Centre, NL	
3:30 pm – 5:00 pm	INDUSTRY and ESMR Meeting	**Presentations given by AGADA Biosciences Inc, Curibio and Optics11Life**	

Grab a snack before you leave for the Conference Dinner			
5:00 pm – 6:30 pm Reichsbrücke DDSG, Handelskai 265, 1020 Vienna *	Transfer to the Boat trip on the Danube		
6:30 pm – 9:30 pm	**EMC Conference Dinner**	**Boat trip on the Danube**	

WEDNESDAY, September 9, 2026

9:00 am – 10:30 am University Biology Building, HS1	**S08: Cardiomyopathies**	**Chair: Gavin Oudit** University of Alberta, Edmonton, CA **Co-Chair: Attila Kiss**, Medical University Vienna, AT	**Invited speaker: Gavin Oudit** University of Alberta, Edmonton, CA **Invited speaker: Attila Kiss** Medical University Vienna, AT
		Contr. talk: Callum Dark, Murdoch Children's Research Institute, Melbourne, AU **Contr. talk: Wolfgang Linke,** University of Münster, DE	
10:30 am – 11:00 am	Coffee Break		
11:00 am – 12:30 pm	**S09: Skeletal Myopathies**	**Chair: Lilli Winter** Medical University, Vienna, AT **Co-Chair:** Andreas Roos, University Duisburg-Essen, DE	**Invited speaker: Andreas Roos** University Duisburg-Essen, DE **Invited speaker: Alessandra Ruggieri** Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan, IT
		Contr. talk: Fernando Ribeiro, Uppsala University, SE **Contr. talk: Patryk Konieczny**, Adam Mickiewicz University, PL	
12:30 pm – 1:30 pm	Lunch		
1:30 pm – 3:00 pm	**S10: Innovations in Human Disease Models**	**Chair: Francesco Saverio Tedesco** UCL/Francis Crick Institute, London, UK **Co-Chair: Alexandra Dorn,** Amsterdam UMC, NL	**Invited speaker: Francesco Saverio Tedesco,** UCL/Francis Crick Institute, London, UK **Invited speaker: Lavinia Ginistrelli** IMBA, Vienna, AT
		Contr. talk: Ana Isabel Antunes Gonçalves, Medical University of Vienna, AT **Contr. talk: Tania Incitti**, AstraZeneca AB, SE	
3:00 pm – 4:00 pm	Closing Session and Awards		

POSTER SESSIONS

All posters will be displayed on both Monday and Tuesday. Poster presentation times will take place on the following days at the times listed in the meeting schedule:

Monday Poster Session 1-6

Poster Session 1

P01.01	Belinda Bullard, Department of Biology, University of York, UK	Tropomyosin as a stretch sensor in the activation of insect flight muscle (66)
P01.02	Laurin Hanft, University of Missouri	Afterload Dependence of Cardiac Function Is Regulated by Cardiac Myosin Binding Protein C (cMyBP C) (11)
P01.03	Anthony Hessel, University of Muenster	Increasing I-Band Titin Compliance Shifts the Structure and Function of Intact Rat EDL Muscle During Peak Twitch and Tetanic Contraction Towards a Less Active State (8)
P01.04	Venus Joumaa, University of Calgary	Preservation of force following active stretch in damaged skinned muscle fibres: a perplexing observation (72)
P01.05	Vincenzo Lombardi, University of Florence	Dual Filament Regulation of the afterload contraction of the mammalian heart (103)
P01.06	Weikang Ma, Illinois Institute of Technology	Porcine Left Atrial and Ventricular Thick Filaments Exhibit Distinct Resting Structures and Calcium-dependent Responses (35)
P01.07	Lorenzo Marcucci, Padova University	Beyond diffusion: modeling dextran effects on SRX estimation in skinned muscle fiber mantATP chasing (74)
P01.08	Joy Pajarla, Yale University	A model that includes cardiac thick filament cooperativity produces realistic Ca2+-dependent myofilament dynamics (121)
P01.09	Daniel Zornow Kruse, Aarhus University	Effects of thick-filament modulation by piperine and mavacamten on work capacity and glycogen depletion in response to work-matched stretch-shortening contractions in isolated slow rat skeletal muscle (116)
P01.10	Nicoletta Piroddi, University of Florence	Comparison of the Inhibition Mechanisms of Fast Skeletal and Slow Cardiac Contractile Properties by Aficamten and Mavacamten in the 15–25°C Temperature Range (117)

Poster Session 2

P02.01	Theresa Hofmann, Universitätsklinikum Münster	Trdn-as directs m6A-dependent transcriptional termination for accurate triadin isoform switching, preventing aberrant dyads and cardiomyopathy
P02.02	Vincent Jacquemond, CNRS-Univ Lyon 1 UMR5261 - Inserm U1315	Excitation-contraction coupling dysfunction in muscle fibers from a mouse model of spinal muscular atrophy
P02.03	Alain Lacampagne, Inserm / Cnrs / Montpellier University	Acute ciguatoxin exposure disrupts cardiac RyR2 function, inducing arrhythmias and acute heart failure phenotype: implications for an emerging climate-sensitive cardiotoxic disease
P02.04	Elena Lilliu, Medical University of Vienna	Phasic Store-operated Calcium Entry in skeletal muscle
P02.05	Zoltán Singlár, University Of Debrecen	CB1R blockade improves force generation and motor coordination without interference with calcium signaling in mdx mice
P02.06	Mónika Sztretye, University of Debrecen	Evaluation of the Interplay Between Statins and the Endocannabinoid System in Skeletal Muscle

Poster Session 3

P03.01	Mónika Gönczi, University Of Debrecen	Alteration of septin expression, co-localization of cytoskeletal proteins, cell cycle progression, and calcium handling in Septin7 knockdown myogenic cell line
P03.02	Carol Gregorio, Icahn School of Medicine at Mount Sinai	The N-terminal actin-binding site of Lmod2 promotes controlled pointed end elongation
P03.03	Miklós Kellermayer, Semmelweis University	Titin's PEVK domain is a Liquid-Liquid Phase Separating Protein
P03.04	Wolfgang Linke, University of Münster	Novex-3 titin defines a structural and signaling hub at the cardiac Z-disk and is dysregulated in heart failure
P03.05	Andrea Balogh-Molnar, Semmelweis University	Ion-Dependent Modulation of Titin Proteolysis Reveals the Physiological Relevance of Short Titin forms
P03.06	Nóra Beatrix Máthé, Faculty of Medicine, University of Debrecen	The role of Septin expression and function in human skeletal muscle cell cultures
P03.07	Jolanta Nowak, Nencki Institute Of Experimental Biology PAS	INVOLVEMENT OF UNCONVENTIONAL MYOSIN VI IN AORTIC MORPHOLOGY AND FUNCTION
P03.08	Katarzyna Robaszkiewicz, Kazimierz Wielki University	Regulation of gelsolin-dependent actin filament dynamics by tropomyosin isoforms Tpm2
P03.09	Małgorzata Siatkowska, Kazimierz Wielki University	Modeling Osteosarcoma Actin Dynamics In Vitro: TPM2 Downregulation Facilitates Cofilin-Mediated Dissociation of Fascin Bundles
P03.10	Matt Stroud, King's College London	Harnessing nucleoskeleton remodelling to mitigate muscle decline
P03.11	Laszlo Szabo, University of Debrecen	The effect of simulated space conditions on the cytoskeletal septin system and mechanotransduction via Piezo1

Poster Session 4

P04.01	Sonia Calabrò, University of Padova	Neuromuscular development is aberrant in germ-free mice, and post-weaning colonization selectively rescues skeletal muscle but not peripheral nerve defects
P04.02	Dana Cizkova, Charles University, Faculty of Medicine in Hradec Kralove	Nestin re-expression in the heart of adult and aged spontaneously hypertensive rats: Comparison to conplastic SHR-mtBN strain and co-localization with connexin 43
P04.03	Michael Cowley, Stellenbosch University	From Quiescence to Activation: CLEM-based evidence of Three-Dimensional Remodeling of Human Satellite Cells Following Exercise
P04.04	Alicia Cuber Caballero, King's College London	Super-resolution fluorescence microscopy to obtain a unified M-band model of titin
P04.05	Philipp Galuska, Universität Wien	From Dynamic Z-Bodies to Ordered Z-Discs: Molecular Mechanisms of Early Myofibrillogenesis
P04.06	Mathias Gautel, King's College London	Titin kinase: dead or alive?
P04.07	Utku Gulbulak, University of Kentucky	MyoProfiler: Open-source software to analyze patterns of fluorescently labeled sarcomeric proteins
P04.08	Jagannath Maharana, Max-Planck Institute for Molecular Physiology	Molecular architecture of the native muscle M-band
P04.09	Francis Pacagnelli, University of Western São Paulo	Muscle-Specific Inhibition of MicroRNA Function Alters Extracellular Matrix and Inflammatory Pathways During Disuse-Induced Skeletal Muscle Atrophy
P04.10	Alicia Peschel, Max Planck Institute of Molecular Physiology	Structural investigation of the jellyfish sarcomere by cryo-electron tomography
P04.11	Momcilo Prodanovic, Filamentech D.O.O. Beograd	PREDICTING EQUATORIAL X-RAY FIBER DIFFRACTION PATTERNS DURING CARDIAC TWITCH
P04.12	Michael Radke, MDC-Berlin	The M-Band of the Sarcomere- more than an anchor / Exploring the sarcoremic M-Band with Titin-BioID knock-in mice
P04.13	Martin Rees, King's College London	The generation and validation of a de novo-designed titin binder for use in fluorescence microscopy
P04.14	Aditya Aniruddha Sane, Ibdm (Marseille)	DNA-PAINT imaging reveals a thick filament subdivision in Drosophila sarcomeres required to power flight
P04.15	Morgan Seffrood, University of Arizona	Structural Dynamics of Slow Skeletal MyBP-C N-terminal Domains: Effects of Phosphorylation and Splicing in the N-terminal Linker
P04.16	Victoria Trinkaus, Max-Planck-Institut für Molekulare Physiologie	Structural Basis of Cardiac Thick Filament Activation
P04.17	Andreas Unger, University Muenster	Microscopical characterization of Novex-3 titin to assess its functional role in cardiomyocytes under physiological and disease states.
P04.18	Dorjana Zerbo Šporin, University of Primorska, Faculty of Health Science	Slower Gait Speed as a Predictor of Increased Frailty Risk in Nursing Home Residents

Poster Session 5

P05.01	Maral Azodi, Deutsches Herzzentrum der Charité (DHZC)	Altered FHL2 signaling following titin N2B deletion in human iPSC-derived cardiomyocytes
P05.02	Kristina Bardova, Institute Of Physiology, Czech Academy of Sciences	Physiological Consequences of Muscle Non-Shivering Thermogenesis: Delayed Regulation and Contractile Dysfunction
P05.03	Cinzia Barresi, Medical University of Vienna	Analysis of the MuSK interactome identifies a novel regulator of neuromuscular junction development
P05.04	André Mourão Batista, IPEN São Paulo	Raman spectroscopy and machine learning in the classification of muscle fiber types
P05.05	Anderson Z. Freitas, Nuclear and Energy Research Institute	Phenotypic Characterization of Skeletal Muscle Fibers by Raman Spectroscopy: A Molecular Signature-Based Approach
P05.06	Isabel Martin, Universität Konstanz	Proximity-dependent labelling to identify mechanosensory signalling cascades of titin-like kinases
P05.07	Glen Pyle, Dalhousie Medicine	Sex differences in the cardiac effects of chronic pain
P05.08	Glen Pyle, Dalhousie Medicine	Laying the Foundation for Cardiovascular Disease: Sex-Dependent Effects of Early Life and Environmental Stress on Oxidative Stress in the Heart
P05.09	Fernando Ribeiro, Uppsala University	Protecting the Diaphragm from Acute Disuse: MuRF1 as a Promising Therapeutic Target
P05.10	Maira Rossi, University of Pavia	Single-nucleus transcriptomics reveals myonuclear state remodeling and altered cell-cell communication during human disuse muscle atrophy.
P05.11	Nejc Umek, Faculty of Medicine, University of Ljubljana	A Skeletal Muscle-Adapted Workflow for Xenium Spatial Transcriptomics Analysis
P05.12	Alexandra Winant, University of Copenhagen	Integrated single-myofiber multi-omics links inflammatory state to myosin energetics in ICU-acquired weakness

Poster Session 6

P06.01	Takayuki Akimoto, Waseda University	The miR-23 cluster microRNAs control muscle mass and slow fiber formation
P06.02	Jana Disch, Institut für Modellierung und Simulation Biomechanischer Systeme (IMSB), Universität Stuttgart	A computer model of integrated glycolytic and mitochondrial ATP synthesis to uncover proton dynamics in active skeletal muscle fibers
P06.03	Alexandra Dorn, Amsterdam UMC	Fast skeletal myosin inhibition improves muscle energetics in a mouse model for hypercontractile Nemaline myopathy type 6
P06.04	Matthias Ernst, Medical University of Vienna	Empagliflozin Improves Mitochondrial Structure and Oxidative Metabolism in Pressure Overload-Induced Cardiac Remodeling
P06.05	Aneta Fenclová, Charles University	Myokine levels during early stages of mild cold acclimation in rat skeletal muscle
P06.06	Torri Heiser, University of Calgary	Energy Consumption After Active Stretch in Single Skinned Muscle Fibres
P06.07	Filip Jezek, University of Michigan	A Mechanistic, ATP-Dependent Cross-Bridge Model of Cardiac Muscle Mechanics Under Energetic Stress
P06.08	Ulrik Mjaaseth, University of Oslo	All-trans retinoic acid alters lipid metabolism in human myotubes in part through modulation of mitochondrial function
P06.09	Kathy Myburgh, Stellenbosch University	Maturation-Dependent Characterisation of C2C12 Myotube Structure and its Contractile Responsiveness to Electrical Pulse Stimulation
P06.10	Maria Jolanta Rędowicz, Nencki Institute of Experimental Biology, Polish Academy Of Sciences	Myosin VI Regulates Myoblast Fusion Through Redox-Dependent Mechanisms
P06.11	Anja Srpčič, University Medical Centre Ljubljana	IL-6 expression modulates the signalling and metabolic response to recombinant IL-6 in primary human myoblasts
P06.12	Katarina Miš, University Of Ljubljana, Faculty Of Medicine	Department of Metabolism and Endocrinology of Skeletal Muscle at the Alliance4Life Virtual Research Center

Tuesday Poster Session 7-10

Poster Session 7

P07.01	Vigdis Aas, Oslo Metropolitan University	Extracellular vesicles from electrical pulse-stimulated human skeletal muscle cells can be taken up by hepatoma HepG2 cells and improve fatty acid oxidation
P07.02	Elisabeth Barton, University of Florida	Fibro-adipogenic precursors are required for load-induced muscle hypertrophy
P07.03	Beatrix Dienes, University of Debrecen	Piezo1 Regulates the Skeletal Muscle Length–Tension Relationship Through Channel-Independent Mechanotransduction
P07.04	Marta Gawor, Nencki Institute of Experimental Biology PAS, Warsaw, Poland	Myosin VI regulates chromatin organisation and transcription in myoblasts
P07.05	Áron Gere, University of Debrecen	The effects of microgravity and proton irradiation on the biophysical properties, Piezo1-induced mechanotransduction and myogenic differentiation of C2C12 cells
P07.06	Luuk Kemna, Amsterdam University Medical Centre	Dynamic loading of Engineered Heart Tissue: measuring workloads
P07.07	Walter Herzog, University of Calgary	SARCOMERE LENGTH AND FORCE BEHAVIOR WITH LOCAL DEACTIVATION
P07.08	Masataka Kawai, University of Iowa	The Effect of Temperature on Force Generation Step – Overview
P07.09	Annika J. Klotz, University of Muenster	Loss of titin-based elasticity elevates end-diastolic pressure through geometric remodelling
P07.10	Meriem Matouk, University of Versailles Saint Quentin En Yvelines	No evidence of the presence of dystrophin protein in rodent muscle stem cells
P07.11	Beatrice Pistolato, Italian Institute of Technology	Proprioception: the 'sixth sense' that guides octopus during motion
P07.12	Roberto Silva-Rojas, Centro Nacional de Investigaciones Cardiovasculares (CNIC)	Myofiber reprogramming and muscle rejuvenation by titin cleavage
P07.13	Emrulla Spahiu, Hannover Medical School, Institute of Molecular And Cell Physiology	Calmodulin-mediated modulation of cardiac myosin function
P07.14	Chris Tiessen, University Of Calgary	Isometric Contraction Induces Passive Force Enhancement in Skeletal Muscle
P07.15	Tim J. van der Zee, KU Leuven	Computational cross-bridge model explains why muscle stiffness is reduced after shortening
P07.16	Apostolos Papandreou, National and Kapodistrian University of Athens	Systemic Adaptations to Different High-Intensity Interval Training Modalities in National-Level Flatwater Kayak Athletes

Poster Session 8

P08.01	Callum Dark, Murdoch Children's Research Institute	Making mature muscle: Investigating metabolic and developmental pathways for improving the maturation of bioengineered muscle
P08.02	Marta Hanczar, Amsterdam UMC	Muscle-microenvironment- in-a-dish: a novel model reveals that endothelial cells modulate muscle contractility and gene expression
P08.03	Tania Incitti, AstraZeneca AB	Advanced in vitro modelling of human skeletal muscle enables physiologically relevant target validation.
P08.04	Thorsten Jonas, Optics11 Life	A contractility platform for 3D engineered muscle tissues
P08.05	Kathy Myburgh, Stellenbosch University	Myoblast Derived Small EVs Loaded with fluorescent miR-26: A Therapeutic Model for Small EV Uptake by Skeletal Muscle Myoblasts In Vitro and Subsequent Myogenic Response to Cargo
P08.06	Malte Rinn, University Medical Center Göttingen	Human Myomatrix Muscle Organoids Capture Collagen VI-Related Dystrophy Phenotypes
P08.07	Jiahao Zhao, Medizinische Hochschule Hannover (MHH)	Antifibrotic Effects of LNA-21, MEG3 on Human Lung Tissue Using a Living Pulmonary Punch Preparation Model

Poster Session 9

P09.01	Wilson Agyapong, Hannover Medical School	Mavacamten elicits conserved and model-specific responses across cardiac models of hypertrophic cardiomyopathy
P09.02	Melissa Amerudin, King's College London	Truncated titin is expressed in a cell-specific and muscle-specific manner in vivo
P09.03	Mamta Amrute, Hannover Medical School	Insights into Mavacamten's Effect on the Actomyosin Crossbridge Cycle at the Single-Molecule Level
P09.04	Ana Isabel Antunes Gonçalves, Medical University of Vienna	Blocking IL-6 Reverses Multi-Organ Dysfunction in Cancer Cachexia
P09.05	Annie Brong, University of Maryland, Baltimore	Deciphering the source of sex differences in the Obscn-ΔIg58/59 mouse model exhibiting cardiac remodeling and arrhythmia
P09.06	Kenneth Campbell, University of Kentucky	Extracellular fibrosis and low phosphorylation of myofilament proteins predict diastolic deceleration time in a cohort of 90 patients
P09.07	Stuart Campbell, Yale University	Effects of cMyBP-C Loss on the Contractile Behavior of Isometrically Loaded Human Engineered Heart Tissue
P09.08	Olivier Cazorla, Phymedexp Inserm - Cnrs – Univ Montpellier	Right Heart dysfunctions of experimental-induced exacerbated emphysema: bisoprolol misses the target
P09.09	Chahida Chaami, University of Copenhagen	Exploring the biochemical potency for diabetic failing hearts (HFpEF)
P09.10	Weronika Ficerman-Kuta, Nencki Institute of Experimental Biology, Polish Academy of Sciences	The role of unconventional myosin VI in the differentiation and energy metabolism of cardiac mesenchymal stem/stromal cells
P09.11	Natalia Georgiadou, University of Leeds	Understanding heart failure phenotypes: effects on cardiomyocyte organisation
P09.12	Larissa Hartmann, University Ulm /Uniklinik Ulm (Innere Medizin II)	Pharmacological Inhibition of Valosin-Containing Protein (VCP) Triggers Cardiac Hypertrophy and Heart Failure in Vivo
P09.13	Bogdan Iorga, Hannover Medical School (MHH)	Primary effects of the HCM-causing myosin mutation G716R on human ventricular myofibril function and modulation by mavacamten
P09.14	Jan Karchňák, Charles University	MIRO1 SHAPES HEART'S RESPONSE TO I/R INJURY AND FIBROSIS
P09.15	Xaver Koenig, Medical University of Vienna	IL-6-Dependent Remodelling of Cardiac Ca^{2+} Handling in the C26 Colon Carcinoma Model of Cancer Cachexia
P09.16	Christopher Lewis, University of Copenhagen	Leveraging AI for the Design of Novel Therapies Targeting Myosin Heavy Chain for the Treatment of Inherited Cardiomyopathies
P09.17	Wolfgang Linke, University of Münster	Selective titin cleavage primarily inhibits cardiac elastic recoil to induce diastolic dysfunction and proliferation of fibroblasts
P09.18	Elise Melhedegaard, University of Copenhagen	Altered sarcomeric structure and function in canine myxomatous mitral valve disease
P09.19	Maya Noureddine, University of Birmingham	Integrated Functional and Structural Analysis of Cardiomyopathy Mechanisms Reveals Protein Destabilisation in an Alpha-actinin-2 Variant
P09.20	Marta Rocha, Medical University of Vienna	Impaired cardiac function, stress-intolerance, protein aggregation, and intercalated disc derangement: hallmarks of plectin-related cardiomyopathy
P09.21	Tim Scholz, Hannover Medical School	The Hypertrophic Cardiomyopathy associated myosin mutation R723G increases myosin motor domain stiffness
P09.22	Yimin Shen, James Black Centre 125 Coldharbour Lane	PSAT1 mediates cardiac fibroblast phenotypic switching via metabolic remodeling in pressure overload induced myocardial fibrosis
P09.23	Egor Shepelev, Bach Institute of Biochemistry, Research Center of Biotechnology, Russian Academy of Sciences	Cardiomyopathy-associated variants R105H and D254N affect Tpm1.1 structure and function
P09.24	Andreu Slushchev, Russia, Moscow, Research Centre of Biotechnology, Russian Academy of Sciences	Pseudophosphorylation modulates the functional properties of cardiomyopathy-associated tropomyosin mutants.
P09.25	Gemma Toerien-Howie, Cardiff University	Investigating anti-arrhythmic properties of the myofilament desensitiser mavacamten in a model of hypertrophic cardiomyopathy
P09.26	Tianbang Wang, Hannover Medical School	Probing the Functional Effect of cardiac modulators on the Actomyosin Crossbridge Cycle using Optical Tweezer-based Measurements

Poster Session 10

P10.01	Cristian Romeo Revnic, Umf Carol Davila	THE IMPACT OF ISCHEMIA REPERFUSSION UPON YOUNG AND OLD RAT HEART PHYSIOLOGY AND ULTRASTRUCTURE
P10.02	Fleur Van Brakel, Amsterdam UMC	The effect of non-invasive ventilation on the respiratory muscle pump in end-stage COPD
P10.03	Carlos Acosta, Nencki Institute of Experimental Biology	MK5 is required Skeletal Muscle adaptations to Exercise: a special focus on Sarcopenia
P10.04	Lorenza Brocca, University of Pavia	Oxidative stress and proteostatic impairment characterize COPD skeletal muscle without a detectable inflammatory cytokine response
P10.05	Claude Collet, INRAE	DIAMIDE INSECTICIDES INTERFERE WITH CALCIUM HOMEOSTASIS IN MOUSE AND HONEY BEE MUSCLE CELLS
P10.06	Alexandra Dorn, Amsterdam UMC	Hypercontractility at the sarcomere level contributes to muscle stiffness in patients harboring a novel variant in TPM3
P10.07	Karla P. Garcia-Pelagio, Universidad Nacional Autonoma de Mexico	Pelvic radiotherapy induces musculoskeletal dysfunction in geriatric rats
P10.08	Romane Idoux, PGNM-INMG	A Bethlem myopathy zebrafish model reveals CaV1.1 as the missing link between collagen VI deficiency and muscle dysfunction
P10.09	Per Harald Jonson, Folkhälsan	SUMOylation studies on SMPX
P10.10	Abraha Kahsay, Umea University	Role of Fhl5 in Extraocular muscle resistance to muscular dystrophies
P10.11	Tom Kerkhoff, Amsterdam UMC	The effects of serum, containing myositis-specific autoantibodies, on muscle fiber contractility in Immune-Mediated Necrotizing Myopathy
P10.12	Patryk Konieczny, Adam Mickiewicz University	DP71 uncouples early survival from functional differentiation in dystrophin-deficient muscle
P10.13	Sarah Konze, Hannover Medical School	hiPSC-derived skeletal muscle cell model of N-acetylneuraminate pyruvate lyase (NPL) - linked myopathy
P10.14	Paulina Kościelniak-Wawro, Adam Mickiewicz University	Small activating RNAs targeting the UTRN promoter upregulate utrophin in DMD-deficient human cell lines
P10.16	Joanna Moraczewska, Kazimierz Wielki University in Bydgoszcz	Dysregulation of Thin Filament Stability and Length Maintenance by Myopathy-Linked Mutations in TPM2
P10.17	Albert Bálint Papp, University of Debrecen	Impaired skeletal muscle regeneration in the absence of adenosine A2A receptor
P10.18	Fernando Ribeiro, Uppsala University	Myosin Post-Translational Modifications Associated With Critical Illness Myopathy
P10.19	Cristiana Sazzi, Università Di Pavia	Fibro-adipogenic progenitors from hindlimb-suspended mice induce myotube atrophy in vitro
P10.21	Vincenzo Sorrentino, University of Siena	miR-486 exerts protective effects in Ryr1-IT mice, a mild model of RYR1-related myopathies (RYR1-RM)
P10.22	Ewa Stępniak-Konieczna, Poznan University of Life Sciences	Targeted RNA activation of MBNL1 corrects spliceopathy in myotonic dystrophy and provides a framework for dual-paralog therapeutic enhancement.
P10.23	Brigitta Tillmann, University Of Debrecen	The expression of cytoskeletal septins and SOCE complex proteins during spontaneous muscle regeneration in mdx mice
P10.24	Ya Wen, Jiaxing Hospital of Jiaxing University	Rescuing the Diaphragm: Human Bone Marrow Mesenchymal Stromal Cells (BM-MSCs)-Derived Extracellular Vesicles Reverse Ventilator-Induced Diaphragm Dysfunction and Reactivate Satellite Cells
P10.25	Xiang Zhang, Jiaxing Hospital of Jiaxing University	Longitudinal transcriptomics reveals the role of ferroptosis in the progression of critical illness myopathy
P10.26	letizia Zullo, Irccs Ospedale Policlinico San Martino	Effects of Physical Exercise in a Zebrafish Model of Neuroinflammation

DISCOVER VIENNA

Vienna blends imperial elegance with a comforting, down-to-earth food culture. Think coffeehouse rituals, golden Wiener Schnitzel, slow-simmered Tafelspitz, airy pastries like Apfelstrudel, and rich Sachertorte. Add in lively heuriger wine taverns pouring fresh local wine, and a modern dining scene that's world-class yet relaxed.

Classic Viennese kitchen:

Figlmüller: Wollzeile 5, 1010 Vienna: Famous, plate-sized schnitzel; book ahead.

Plachutta: Wollzeile 38, 1010 Vienna: Benchmark Tafelspitz with classic sides.

Gasthaus Pöschl: Weihburggasse 17, 1010 Vienna: Cozy spot for schnitzel and seasonal dishes.

Coffee & sweets:

Café Central: Herrengasse 14, 1010 Vienna: Grand café culture; try the pastries and a melange.

Cafe Demel: Kohlmarkt 14, 1010 Vienna: Historic confectioner; strudel and cakes.

Café Sacher: Philharmoniker Str. 4, 1010 Vienna: Original Sachertorte experience.

Modern & creative:

Steirereck im Stadtpark: Am Heumarkt 2A, 1030 Vienna: Contemporary Austrian, exceptional produce; reserve early.

Mraz & Sohn: Wallensteinstraße 59, 1200 Vienna: Inventive tasting menus with a playful edge.

Konstantin Filippou: Dominikanerbastei 17, 1010 Vienna: Sleek, seafood-forward fine dining.

Wine taverns (Heuriger) in the vineyards:

Mayer am Pfarrplatz: Pfarrpl. 2, 1190 Vienna or Heuriger Wolff (19th): Rathstraße 46, 1190 Vienna: New wine, cold platters, and a garden setting.

Quick bites:

Würstelstand Bitzinger (Albertina/Prater) Albertinapl. 1, 1010 Vienna: Grab a Käsekrainer with a beer.

Zum Schwarzen Kameel: Bognergasse 5, 1010 Vienna: Open-faced brötchen and a glass of wine at the bar.

Excursion Tips:

Donauinsel: The Donauinsel is Vienna's largest recreational area and offers green spaces, bathing coves, and numerous sports and leisure facilities:

https://www.wien.info/de/sehen-erleben/familien/outdoor/donauinsel-344706

Nussdorf: The location is a popular starting point for hikes and cycling tours into the vineyards and up to Kahlenberg:

https://www.stadtbekannt.at/spaziergaenge/nussdorf-heiligenstadt/

Kahlenberg: offers one of the best panoramic views over the city and the Donau, and is a popular destination for strolls, hikes, and bike rides:

https://www.wien.info/de/lebenswertes-wien/parks-gruenflaechen/kahlenberg-337912

Leopoldsberg: it is a prominent viewpoint hill and a popular destination for hikers, who often ascend via the steep Nasenweg (Stadtwanderweg 1a):

https://wirinwien.blog/leopoldsberg/

Riesenrad: The Vienna Giant Ferris Wheel in the Prater is a landmark oft he city. Built in 1897, it stands about 65 meters tall and offers a slow, panoramic view of Vienna from its historic wooden gondolas:

https://wienerriesenrad.com/

„Dritte Mann"- Tour: The Third Man Tour takes you to original locations from the classic film „The Third Man" in Vienna, with insights into the postwar era and film history. The highlight is a guided tour of the Vienna sewers:

https://www.drittemanntour.at/