



2025(Pdm3) Padua 5 Days on Muscle and Mobility Medicine

March 25 to March 29, 2025 - Euganean Thermae, Padua (Italy)

Hotel Petrarca, Piazza Roma 23, Montegrotto Terme, (Padua), 35122 Italy

Phone +39 049 891 1744 - Email: petrarca@hotelpetrarca.it - <https://www.hotelpetrarca.it/>

Organizers: Stephen Anton, Elena Barbieri, Bert Blaauw, Ines Bersch, Ugo Carraro, Dario Coletti, Paolo Gargiulo, Elena P. Ivanova, Helmut Kern, Christiaan Leeuwenburgh, Maria Chiara Maccarone, Stefano Masiero, Marco V. Narici, Antonio Paoli, Philippe Perrin, Marco Quadrelli, Riccardo Rosati, Piera Smeriglio, H. Lee Sweeney, Gerd Volk, Sandra Zampieri

REGISTRATION FEES: € 300 - One-Day REGISTRATION FEES: € 150 - Young Attendees: Exempt

Send Registration and Accommodation Forms to: ugo.carraro@unipd.it and petrarca@hotelpetrarca.it

Send Payments to: petrarca@hotelpetrarca.it

TUESDAY March 25, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 am Opening: Antonio Paoli, Greetings from the University of Padua

09:10 am Session I: FES for atrophying and reinnervating muscles Ines Bersch, Gerd Volk, Chairs

09:10 am Lecture of Stanley Salmons, University of Liverpool UK: Paradigm shift - Tales of the unexpected

09:50 am Invited Speakers: Winfried Mayr, Gerd Volk, Myriam Loyo, Antonio DiPietro, (20+5min), More

11:00 am Open Coffee

11:10 am Session II: FES for permanent denervated muscles, Ashraf Gorgey, Hemut Kern, Chairs

11:10 am Invited Speakers: Marie Alberty, Ashraf Gorgey, Daniele Coraci, Giovanni Pegoraro, (20+5min), More

01:00 pm Lunch

02:00 pm Session III: Exercise and fasting in prevention and managements of mobility and metabolic disorders, Stephen Anton, Maria Chiara Maccarone, Chairs

02:00 pm ToBeAnnounced (20+5min), Stephen Anton, University of California, Gainesville, USA

02:25 pm Fasting, exercise and skeletal muscle (20+5min), Antonio Paoli, Padua University, Italy

02:50 pm ToBeAnnounced, Maria Chiara Maccarone (20+5min), Padua University, Italy

03:15 pm ToBeAnnounced, Andrea Marcante et al., (20+5min) and More ...

04:05 pm Open Coffee

04:15 pm Session IV: Maintaining compliance in rehabilitation, Richard L. Lieber, Ugo Carraro, Chairs

04:15 pm Specific Tension of Human Muscle - Direct and Indirect Approaches (25+5min), Richard L. Lieber, Northwestern University, Chicago, IL, USA

04:45 pm Mechanisms of action of hyperbaric oxygen therapy (20+5min), Gerardo Bosco, University of Padua, Italy

05:10 pm Hyperoxia after exercise-to-exhaustion in the mitigation of age-related muscle decay (20+5min), Ugo Carraro, University of Padua, Italy

05:35 pm To Be Announced (20+5min), Henning Wackerhage, University of Munich, Germany

06:00 pm Lecture of Jan Fridén, University of Gothenburg, Gothenburg, Sweden: Restoring upper extremity motor function in tetraplegia using muscle and nerve transfers

06:40 pm A glass of Prosecco before dinner

07:30 pm Dinner

WEDNESDAY March 26, 2025 Villa Pollini, Luvigliano, Euganean Hills (Padua) Italy

08:30 AM Complimentary Bus from Hotel Petrarca to Villa Pollini, Luvigliano di Torreglia (Padua) Italy

09:00 am Session V: Pathogenesis, regeneration and therapy in sarcomeric muscle diseases
H Lee Sweeney, Daniela Tavian, Chairs

09:00 am Lecture of H. Lee Sweeney, University of Florida, Gainesville, USA, To be announced

09:40 am Proteomic profiling of the dystrophin complexome in skeletal muscle(20+5min),
Kay Ohlendieck, Maynooth University, National University of Ireland

10:05 am Lipotoxicity and lipophagy in NLSDM: mechanisms and treatments (20+5min)
Sara Missaglia, Daniela Tavian, Catholic University of the Sacred Heart, Milan, Italy

10:30 am Remodeling of neuromuscular junction in dystrophic sarcomeric muscles, (20+5min)
Gabriele Siciliano, University of Pisa, Italy

10:55 am Open Coffee

11:00 am Invited Speakers: Piera Smeriglio, Denis Furling, (25+5min), 4 More (10+5min)

01:00 pm Working Lunch

02:00 pm Session VI: Skeletal muscle adaptations to exercise and disuse, David Hood, Anna Picca,
Christiaan Leeuwenburgh, Chairs

02:00 pm Introductory words (5 min by Zoom) Christiaan Leeuwenburgh, Florida University, USA

02:05 pm Role of the lysosome in maintaining muscle health across the lifespan (20+5min),
David Hood, Toronto, Canada

02:30 pm The role of AMPK in the neuromuscular system (20+5min), Vladimir Ljubcic (Hamilton,
Canada)

02:55 pm Role of Calcium signaling in muscle adaptations to exercise (20+5min), Nicolas Place
(Lausanne, Switzerland)

03:20 pm Molecular mechanisms of muscle adaptations: role of PGC-1 α (20+5min), Christoph
Handschin (Basel, Switzerland)

03:45 pm Mitochondria-derived vesicles in physical frailty and sarcopenia, (20+5min), Anna
Picca, Department of Medicine and Surgery, LUM University, Italy

04:10 pm Open Coffee

04:20 pm Session VII: Managements of cancer cachexia, Sandra Zampieri, Dario Coletti, Chairs

04:20 pm Effects of exercise and chemotherapy in cancer cachexia (20+5min), James Carson,
Memphis, McMaster University, Tennessee, USA

04:45 pm Silencing tumor-muscle crosstalk (20+5min), Marilia Seelander, University of Sao
Paulo, Brazil

05:10 pm To Be Announced (20+5min), Andrew Judge, Gainesville University, FL, USA

05:35 pm Morphological and ultrastructural features of human cancer cachexia (20+5min),
Sandra Zampieri, University of Padua, Italy

06:00 pm Alterations in the gait of tumor bearing mice suggest alterations in the nervous system
underlying cachexia (20+5min), Dario Coletti, Sapienza University, Rome, Italy

06:25 pm Impact of sarcopenic myosteatorsis on patients with esophagogastric cancer (20+5min),
Elisa Sefora Pierobon, DiSCOG, University of Padua, Italy

06:50 pm Lecture of Massimo Ganassi, Involvement of Satellite cells in the pathogenesis of
Neuromuscular disorders, (35+5min)

07:30 pm Complimentary Bus from Villa Pollini, Luvigliano to Hotel Petrarca, Montegrotto Terme

08:00 pm Dinner

THURSDAY March 27, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 am Session VIII: Elena Monti, Marco Narici, Chairs

09:00 am Invited Speakers: TobeAnnounced (20+5min), Marco Narici (20+5min), Roberto Bottinelli, (20+5min), More (20+5min)

11:00 am Coffee break

11:10 am A transcriptomic and spatial proteomic atlas of human aging and sarcopenia (20+5min), Elena Monti, Department of Microbiology and Immunology, Stanford University (CA), USA

11.35 am More (20+5min)

01:00 pm Lunch

02:30 pm Session IX: Bert Blaauw, Daniela Tavian, Chairs

02:30 pm To Be Announced

02:55 pm Invited Speakers: Costantinos Maganaris (20+5min), Leonardo Nogara (20+5min), Bert Blaaw, (20+5min)

04:30 pm Coffee break

04:40 pm Session X: Exercise and exer kines: impact on circulating myokines, adipokines and hormones, Daniela Tavian, Bert Blaauw, Chairs

04:40 pm Irisin measurement in plasma and saliva in response to Resistance Training sessions of different modalities: A comparative pilot study, Luigi Marano et al., Univ Cattolica-Milan, Italy) (15+5min)

05:00 pm Effects of superimposed electromyostimulation during cycling on serum irisin levels (15+5min), Ester Tommasini et al., Univ Cattolica-Milan, Italy)

05:20 pm Association of high molecular weight Adiponectin oligomers with exercise metrics post acute exercise (15+5min), Aurora Daniele et al., Neaples University, Italy)

05:40 pm To Be Announced(15+5min), Andrea Bosio et al., MAPEI Sport , Italy

06:00 pm To Be Announced, (15+5min)

06:20 pm To Be Announced, (15+5min)

06:40 pm Conclusive Remarks (20 min), Giorgio Fanò-Illic, IIM, Libera Università di Alcatraz, Italy

07:30 pm Dinner

FRIDAY March 28, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 am Session XI Hyaluronans, glycosylated proteins and fibrosis in mobility disorders,

Elena Barbieri, Giovanni Abatangelo, Chairs

Invited Speakers: Capucine Trollet (25+5min), Elena Barbieri (25+5min), Carla Stecco, (25+5min), More (25+5min)

11:00 am Coffee break

11.00 am SESSION XII: Digital health and muscle imaging for mobility medicine

Paolo Gargiulo, Daniele Coraci, Chairs

Invited Speakers: Paolo Gargiulo (25+5min), Daniele Coraci (25+5min), Marco Quadrelli, (20+5min), More

01:00 pm Lunch

02:00 pm SESSION XIII: Hydrotherapies in mobility disorders, Philippe Perrin, Stefano Masiero, Chairs

02:00 pm Meteorological, chronobiological and thermal factors impacting postural control in knee osteoarthritis (35+5min), Philippe Perrin, et al., University of Lorraine, Nancy, France

02:40 pm To Be Announced (15+5min), Maria Chiara Maccarone, et al. University of Padova, Italy

03:00 pm To Be Announced (15+5min), Paulo Gentil, Faculdade de Educação Física e Dança, Universidade Federal de Goiás, Goiania, Brazil

03:20 pm Hydrokinesis therapy after botulinum toxin for muscle spasticity, Andrea Marcante

03:40 pm To Be Announced (15+5min), Kiril V, Terentev, et al., Moscow Regional Research Clinical Institute named after M.F. Vladimirovsky, Moscow, Russia

04:00 pm Coffee break

04:20 pm Can different microclimatic conditions of a health path affect the results of treatment of patients with arterial hypertension and excess body weight? (15+5min by ZOOM), Irina Grishechkina, Maxim Yakovlev, National Research Medical Center for the Balneology and Rehabilitation, Moscow, Russia

04:40 pm Prognosis of movement disorders in the early recovery period of ischemic stroke on the background of anticoagulant therapy (15+5min by ZOOM) Georgy Avakyan, Minh Duc Tran, Albina N. Yasamanova, Neurology, Neurosurgery and Medical Genetics, Faculty of General Medicine, Pirogov Russian National Research Medical University, Moscow, Russia

05:00 pm The effectiveness and safety of using therapeutic mud and mineral water from the Kaliningrad region of the Baltic region in neurorehabilitation (15+5min by ZOOM), Igor Reverchuk, BioInstitute for Somatomental Health, Samarkand State Medical University of the Republic of Uzbekistan.

05:20 pm Psychoneurophysiological and neurophenomenological mechanisms of sanogenesis of the new science of "kinetics" in neurorehabilitation of borderline mental and movement disorders (15+5min by ZOOM), Igor Reverchuk, BioInstitute for Somatomental Health, Samarkand State Medical University of the Republic of Uzbekistan.

05:40 pm To Be Announced (15+5min), Tatyana Chernyavskaya, Moscow, Russia

06:20 pm Conclusive Remarks, Stefano Masiero, University of Padova, Italy

07:30 pm Dinner

FRIDAY MARCH 28, 2025

Conference Hall Grazia, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 am SESSION XIV: Masterclass on Muscle Rehabilitation in Dentistry

Elena P. Ivanova, Riccardo Rosati, Chairs

09:00 am Welcome and thanks, Riccardo Rosati, Milan, Italy

09:20 am To Be Announced, Olaf Winzen, University of Frankfurt, Germany

09:40 am To Be Announced, Bedros Yavru-Sakuk, New York, USA

10:00 am TMD management - a modern approach. Roberto Rongo, University of Naples Federico II, Italy

10:20 am Speakers To Be Announced

10:40 am The masticatory muscles adaptation to orthodontic therapy. Beatrice Sfondrini, University of Pavia, Italy

11:00 am Coffee break

11:20 am US Imaging of masseter-parotid district. Dolaji Heinin, University of Milan, Italy

11:40 am sEMG in patients with parotitis induced by masseter muscle hypertrophy, Gaia Pellegrini. University of Milan, Italy

12:00 am Lectio magistralis: Differential diagnosis of salivary gland and surrounding muscle disorders: a handbook for dentists, Pasquale Capaccio, University of Milan, Italy

12:50 am Discussion

01:00 pm Working Lunch

02:30 pm SESSION XV: Masterclass on Muscle Rehabilitation in Dentistry

Claudia Dellavia, Riccardo Rosati, Chairs

02:30 pm Maintenance and restoration of masticatory muscle function in everyday dentistry, Piero Simeone, Rome, Italy

06:20 pm Conclusive Remarks, Riccardo Rosati, Milan, Italy

06:30 pm Greetings

07:30 pm Dinner

SATURDAY MARCH 29, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 am SESSION XVI: Ludwig Boltzmann Institute Workshop on Rehabilitation,
Helmut Kern, Feliciano Protasi, Vincent Grote, Chairs

09:00 am Speakers To Be Announced

10:40 am Coffee break

11:00 am Speakers To Be Announced

01:00 pm Lunch

SATURDAY MARCH 29, 2025

Conference Hall Grazia, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 pm SESSION XVII: Masterclass on musculoskeletal diagnostics of the
shoulder and knee using cutting-edge imaging techniques

Paolo Gargiulo, Marco Quadrelli, Chairs

09:00 am Lecture of Paolo Gargiulo, University of Reykjavik, Iceland: Digital health and muscle imaging for mobility medicine

09:40 am Innovative Approaches to Shoulder MSK Disorders: From Symptomatology to Advanced Imaging and Diagnosis, To Be Announced

10:20 am Mastering Shoulder Diagnostics: An Interdisciplinary Journey from Clinical Assessment to Advanced Imaging, To Be Announced

11:00 am Open Coffee

11:00 am Comprehensive MSK Imaging: Integrating Clinical Radiological, and Post-Processing Expertise in Shoulder Diagnostics, To Be Announced

11:40 am Lecture of Ugo Carraro, University of Padova, Italy: How to rejuvenate at 80's

12:30 am Working Lunch

02:00 pm Lecture of Helmut Kern, LBI Rehabilitation Research, Vienna, Austria: Prehabilitation and best practices from acute therapy and early outpatient underwater therapy after knee replacement

02:40 pm Beyond the Symptoms: A Multifaceted Approach to Knee Imaging - From Clinical Evaluation to Advanced Post-Processing, To Be Announced

03:20 pm Innovative Perspectives in Knee Diagnostics: Bridging Clinical Symptoms and Cutting-Edge Imaging Techniques, To Be Announced

04:00 pm Open Coffee

04:00 pm The Synergy of Expertise: Exploring Advanced Knee Diagnostics Through Clinical, Radiological and Technological Lenses, To Be Announced

04:40 pm General Discussion

06:00 pm Conclusive Remarks, Aldo Morra, SynLab, Padua&Naples, Italy

06:40 pm Ugo Carraro: Goodbye to the 2026Pdm3, Euganean Thermae (Padua), Italy

07:30 pm Dinner

SPONSORS



MYOLOGY
Institute
UNIVERSITY of FLORIDA

Hotel Petrarca, Pastorello Family
Montegrotto Terme (Padova), Italy



A&C M-C Foundation for
Translational Myology, Padua, Italy

EUROPEAN
JOURNAL *OF*
TRANSLATIONAL
MYOLOGY

MYOLOGY and MOBILITY MEDICINE

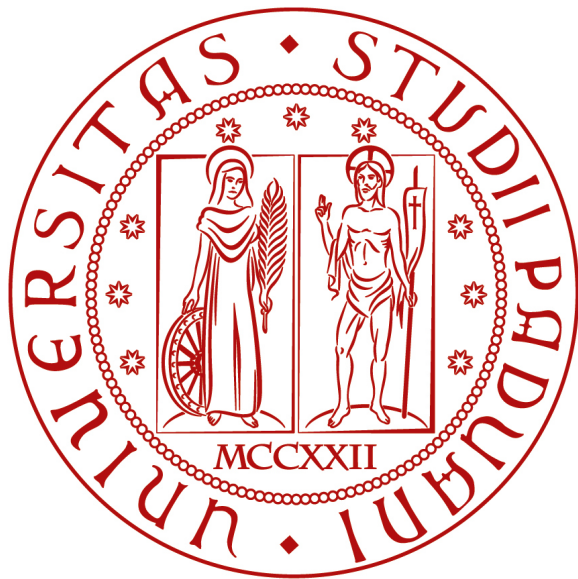


IMPACT
FACTOR
2.2

SYNLAB



PATRONS



**UNIVERSITÀ
DEGLI STUDI
DI PADOVA**

***INTERDEPARTMENTAL RESEARCH CENTER OF
MYOLOGY (CIR-MYO)***



DEPARTMENT of BIOLOGY (DB)

DEPARTMENT OF BIOMEDICAL SCIENCES (DSB)

DEPARTMENT OF NEUROSCIENCE (DNS)

***DEPARTMENT OF SURGERY, ONCOLOGY,
GASTROENTEROLOGY (DiSCOG)***

of the University of Padua, Italy