

2023 On-site Pdm3, March 29 - April 1, 2023 - *Thermae of Euganean Hills, Padua (Italy)*



2023 Padua Days on Muscle & Mobility Medicine

Hotel Petrarca, Piazza Roma 23, Montegrotto Terme, Euganean Hills, (Padua), 35122 Italy
Phone +39 049 891 1744 - Email: petrarca@hotelpetrarca.it - <https://www.hotelpetrarca.it/>

Organizers

Elisabeth R. Barton, Ugo Carraro, Marcus Coplin, Raffaele De Caro, Paolo Gargiulo, Elena P. Ivanova, Helmut Kern, Nathan K. LeBrasseur, Christiaan Leeuwenburgh, Alessandro Martini, Stefano Masiero, Marco Narici, Rosanna Piccirillo, Riccardo Rosati, Jorge Ruas, Marco Sandri, Piera Smeriglio, Carla Stecco, H. Lee Sweeney, Sandra Zampieri

WEDNESDAY March 29, 2023

08:00 AM – Complimentary Bus Transfer to Padua

Guariento Hall, Galilean Academy of Arts and Science of Padua, Italy

09:00 AM **Openings:** Raffaele De Caro, Marco Narici, Marco Sandri. Greetings and thanks to lecturers, speakers, audience and sponsors

09:20 AM **Lecture of Carlo Reggiani:** Single fibers as a tool in aging muscle research

10:00 AM **Session I: Adaptions to Physical Exercise in Aging: from cell to functioning**
Marco Narici, Ugo Carraro, Chairs

10:00 AM **Russell Hepple, University of Florida, USA:** Skeletal Muscle Plasticity to Resistance Training in Pre-frail/Frail Elderly Women

10:20 AM **Charlotte Suetta, University of Copenhagen, DK:** Rehabilitation for life: the effect on physical function of rehabilitation and care in older adults

10:40 AM **Alcazar Jose, Universidad de Castilla-La Mancha, Toledo, Spain:** Improving muscle power through exercise training in old age

11:00 AM **Simone Porcelli, University of Pavia, Italy:** Home-based aerobic exercise training improves skeletal muscle oxidative metabolism in old people

11:20 AM **Martino Franchi, University of Padua, Italy:** Differential muscle adaptations to concentric and eccentric resistance training in older people

11:40 AM **Marco Narici, University of Padua, Italy:** The neuroprotective effects of exercise in older age

12:00 AM **Gianni Biolo, University of Trieste, Italy:** Nutrient-exercise interaction on muscle mass and function in aging

12:20 AM **Maria Chiara Maccarone, Stefano Masiero, Ugo Carraro, University of Padua, Italy:** Combating muscle weakness in bed-ridden elderly with Home-based Full-Body in-Bed Gym (hbFbiBG): Basics, Implementation and Preliminary Results of the Padua Initiative

12.45 AM Lunch in Piazza Duomo, Padua, Italy

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WEDNESDAY March 29, 2023

Guariento Hall, Galilean Academy of Arts and Science of Padua, Italy

02:20 PM – *Stefano Schiaffino, University of Padua, Italy, Who is Terje Lømo, a 88-year-YOUNG scientist still fully active!*

02:30 PM – *Lecture of Terje Lømo, Arild Njå, University of Oslo, Norway: Body temperature regulation by tonic muscle impulse activity and brown adipose tissue*

03:00 PM – **SESSION II: Skeletal Muscle Epigenetics and the dark side of the genome**

Piera Smeriglio, Marco Sandri, Chairs

03:00 PM – *Marco Sandri et al., University of Padua, Italy: Discovering novel longevity genes by looking at the dark side of the genome*

30:20 PM – *Chiara Lanzuolo, Istituto Nazionale di Genetica Molecolare, Milan, Italy: Chromatin conformation of muscle stem cells in physiological and pathological muscular aging*

30:40 PM – *Piera Smeriglio, Sorbonne Université, Paris, France: To be announced*

04:00 PM – *Giuseppina Caretti et al., Milan University, Italy: Epigenetic targeting of BET proteins rewire metabolism in the aged skeletal muscle*

04:20 PM – *Silvere M. van der Maarel, Leiden University Medical Center, the Netherlands, To be announced*

04:40 PM – **SESSION III: From MiRNA to LNC-RNA - Rosanna Piccirillo, Jorge L. Ruas, Chairs**

04:40 PM – *To be announced*

05:00 PM – *Rosanna Piccirillo et al., IRCCS - "Mario Negri", Milan, Italy: To be announced*

05:20 PM – *Jorge L. Ruas, Biomedicum, Karolinska Institute, Stockholm, Sweden: To be announced*

05:40 PM – *To be announced*

06:00 PM – *To be announced*

06.20 PM –

06:45 PM – *Complimentary Bus Transfer to Hotel Petrarca, Thermae of Euganean Hills (Padua), Italy*

07:45 PM – *Dinner*

2023 On-site Pdm3, March 29 - April 1, 2023 - Thermae of Euganean Hills, Padua (Italy)

THURSDAY March 30, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

09:00 AM - Lecture of H. Lee Sweeney, University of Florida, USA: Improving upon AAV.micro-dystrophin gene therapy for DMD

09:40 AM - SESSION IV: Genetic muscle diseases - Elisabeth R. Barton, H. Lee Sweeney, Chairs

09:40 AM - To Be Announced

10:00 AM - To Be Announced

10:20 AM - To Be Announced

10:40 AM - To Be Announced

11:00 AM - Break

11:15 AM - To Be Announced

11:30 AM - To Be Announced

11:45 AM - To Be Announced

12: AM - To Be Announced

12:30 AM Lunch

THURSDAY March 30, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

02:30 PM - SESSION Va: Twenty Years of AIM – Daniela Taviani, Corrado Angelini, Chairs

02:30 PM – Giovanna Lattanzi, IRCCS Rizzoli Orthopedic Institute, Bologna, Italy: Laminopathies

02:50 PM – Gabriele Siciliano, University of Pisa, Italy: Phenotype variabilities of laminopathies

03:10 PM – Guilia Ricci, Gabriele Siciliano et al., University of Pisa, Italy: New avenues for treatment of facioscapulohumeral MD (FSHD)

03:30 PM – Giovanna Cenacchi et al., Alma Mater Studiorum University of Bologna, Italy: LGMD D2 TNPO3-Related: Clinical Spectrum

03:50 PM – Giovanna Cenacchi et al., Alma Mater Studiorum University of Bologna, Italy: LGMD D2 Pathogenetic Mechanism

04:10 PM - Break

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THURSDAY March 30, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

04:20 PM - **SESSION Vb: Twenty Years of AIM** – Corrado Angelini, Daniela Tavian, Chairs

04:20 PM – Massimiliano Filosto, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy: Clinical and genetic characterization of a novel NLSDM patient

04:40 PM – Elena Pennisi, Sara Missagliai, Daniela Tavian et al., Milan, Italy: Exploring triheptanoin as treatment for neutral lipid storage disease with myopathy

05:00 PM – Guilia Ricci, Gabriele Siciliano et al., University of Pisa, Italy: New avenues for treatment of facioscapulohumeral MD (FSHD)

05:20 PM – Ester Tommasini, Daniela Tavian et al., Milan, Italy: Irisin and sarcopenia: salivary irisin is induced by strenuous exercise and correlates with circulating irisin

05:40 PM – Giovanna Cenacchi et al., Alma Mater Studiorum University of Bologna, Bologna, Italy: LGMD D2 Pathogenetic Mechanism

06:00 PM – Patrizia Proia, Giuseppe Messina, University of Palermo, Italy: To Be Announced

06:20 PM – Angelo Iovane et al., University of Palermo, Italy: To Be Announced

06:40 PM – To Be Announced

07:30 PM – Dinner

FRIDAY March 31, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

09:00 AM - **SESSION VI: Senescence & Rejuvenation**

Nathan K. LeBrasseur, Christiaan Leeuwenburgh, Chairs

09:00 AM – Nathan K. LeBrasseur, Mayo Clinic, Rochester, MN, USA: Cellular senescence as a driver of skeletal muscle aging

09:20 AM – David Hood, York University, Canada: Impact of age and sex on lysosomes and mitophagy during muscle use and disuse

09:40 AM - Christiaan Leeuwenburgh, University of Florida, Gainesville, FL, USA: Increased Senescence, Dysregulated Genes, MicroRNAs, and Gastrocnemius Muscle Fiber Types Associated With Progression of Peripheral Artery Disease To Be Announced

10:00 AM – Barbara Grünig, Hans Hoppeler, University of Bern, Switzerland: The use of muscle rehabilitation: the Namibia experience

10:20 AM - To Be Announced

10:40 – Break

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FRIDAY March 31, 2023

ROOM B, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

09:30 AM – Practical Course on functional analysis of the stomatognathic system –

Claudia Dellavia, Riccardo Rosati, Chairs

9.30-11.00: Instrumental evaluations of the stomatognathic apparatus: static tests

11.00-11.15 break

11.15-12.30: Instrumental evaluations of the stomatognathic apparatus: dynamic tests

For dentists who want to review/expand the functional analysis protocols of the stomatognathic system developed at the Laboratory of Functional Anatomy of the Stomatognathic Apparatus (LAFAS) of the University of Milan, Italy

FRIDAY March 31, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

10:50 AM - SESSION VII: Muscle Fascia, biology and pathology - Carla Stecco, Alessandro Martini - Chairs

10:50 AM – Carla Stecco, University of Padua, Italy: Fascia and aging

11:05 AM - Alessandro Martini, University of Padua, Italy: Tensor Tympani and Stapedius: two unknown muscles

11:20 AM – Carmelo Pirri, University of Padua, Italy: Fascia and Ultra Sounds

11:35 AM – Caterina Fede, University of Padua, Italy: Fasciae and hormones

11:50 AM – Giovanna Albertin, University of Padua, Italy: Lymphatic drainage of the subcutaneous tissue

12:05 AM – Lucia Petrelli, University of Padua, Italy: Innervation and vascularization of the superficial fascia

12:25 AM – Hans Hoppeler, University of Bern, Switzerland: Facts and Fantasies. A critical appraisal of "Fascia-Believes" of osteopathic medicine from an orthodox medical perspective

13:00 AM Lunch

FRIDAY March 31, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

02:30 PM - SESSION VIII: Non-invasive Assessments in Myology - Paolo Gargiulo, Ugo Carraro, Chairs

02:30 PM - Riccardo Forni, Paolo Gargiulo, University of Reykjavik, Iceland: 3D Printing and radiodensity characterization of cardiac tissue: virtual histology and age dependency.

03:00 PM - Valentina Betti, Halldór Jónsson Jr, Luca Cristofolini, Magnús Kjártan Gíslason, Paolo Gargiulo, University of Reykjavik, Iceland: In in silico 3d approach to evaluate bone remodelling after total hip arthroplasty: a six years longitudinal study.

03:15 PM - Federica Ciliberti, Halldór Jónsson Jr, Paolo Gargiulo, University of Reykjavik, Iceland: Novel strategies for cartilage assessment, interplay between bone and muscle

03:30 PM - Lorenza Bonaldi, University of Padua, Italy: Deep learning applied to fascial alteration

03:45 PM - Rosanna Piccirillo et al., IRCCS - "Mario Negri", Milan, Italy: A novel reporter technology, MyoRep, to follow in vivo skeletal muscle wasting

04:00 PM - Ugo Carraro, University of Padua, Italy: Non-invasive inflammatory biomarkers in saliva and sweat analyses

04:15 PM – Break

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FRIDAY March 31, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

04:20 PM - SESSION IX: Muscle Rehabilitation in Dentistry - Riccardo Rosati, Elena P. Ivanova, Chairs

04:20 PM - Riccardo Rosati, University of Milan, Italy: To Be Announced

04:45 PM - Claudia Dellavia, University of Milan, Italy: To Be Announced

05:00 PM - Elena P. Ivanova, Rehabilitation and Balneology Center, Moscow, Russia: Innovative methods of full dental rehabilitation

05:20 PM - Francesca Ferrante; University of Pavia, Italy: Facial morphology and masticatory muscle recruitment

05:40 PM - Roberto Rongo; University of Naples Federico II, Italy: Masticatory muscles pain management

06:00 PM - Maria Dimova. University of Bulgaria: Bulgaria): Diagnosis and treatment of crano-mandibular disorders.

06:20 PM – Mauricio Gonzales Balu,(Mexico: To Be Announced

06:40 PM - Edoardo Cavalle, Milna, Italy: To Be Announced

07:00 PM - Amarsaikhan Bazar, Mongolia: Chewing hard food and its importance for general health

07:30 PM – Dinner

SATURDAY April 1, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

09:00 AM – Session X: LBI workshop on muscle rehabilitation - from mouse to elderly

Sandra Zampieri, Feliciano Protasi, Chairs

09:00 AM – Feliciano Protasi, University of Chieti, Italy: Mimicking disuse and rehabilitation in a mouse model

09:30 AM - Antonio Musarò, University Sapienza of Rome, Italy: Molecular biological basis and effects of immobility and training in young and aging.

10:00 AM - Sandra Zampieri, University of Padua, Italy: C-Terminal Agrin Fragment as a biomarker of muscle wasting and weakness in aging and disuse

10:30 Break

10:45 AM – Jan Cvecka, University of Bratislava, Slovakia: Exercise intervention in elderly: a novel system within the Centre of Active Aging in Bratislava

11:15 AM – Nejc Sarabon, University of Primorska, Slovenia: Relationship between 24-hour movement behaviour and physical performance in older adults: A cross-sectional insight into the Centre of active ageing data

11:45 AM - Stephan Loeffler, Helmut Kern, LBI Rehabilitation Research, Vienna, Austria: AMB-REMOB – results of an early outpatient rehabilitation program

12:15 AM - Vincent Grote, Michael Fischer, LBI Rehabilitation Research, Vienna, Austria: Outcomes of early rehabilitation in elderly patients

12.45 AM Lunch

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SATURDAY April 1, 2023

Medical Hotel Ermitage, Abano Thermae (Padua) Italy

01:00 PM - *European Medical Thermalism, Practical Activities*

Ugo Carraro, Stefano Masiero, Chairs

01:00 PM – *Working Lunch in Medical Hotel Ermitage*

01:30 PM – *Marco Maggia, Medical Hotel Ermitage Director: Balneology, Balneotherapy, Mud and other Physiotherapies for prevention&rehabilitation in the Medical Hotel Ermitage, a pioneering 15-year successful example*

SATURDAY April 1, 2023

Conference Hall, Hotel Petrarca, Thermae of Euganean Hills (Padua) Italy

03:00 PM - *SESSION XI: European Medical Thermalism and FEMTEC*

Marcus Coplin, Stefano Masiero - Chairs

03:00 PM – *Marcus Coplin: To be announced*

03:20 PM – *Stefano Masiero, University of Padua, Italy: To be announced*

03:40 PM - *Andrey Rachin, Rehabilitation and Balneology Center, Moscow, Russia: Modern methods of neuro-rehabilitation*

05:00 PM - *Irina A. Grishechkina, Rehabilitation and Balneology Center, Moscow, Russia: Outcomes of rehabilitation programs in patients with post-COVID-19 syndrome*

05:20 PM – *Maria Chiara Maccarone, University of Padua, Italy: Balneology and Balneotherapies in Padua Thermae, Italy*

05:40 PM – *To be announced*

06:00 PM – *To be announced*

06:20 PM – *To be announced*

06:45 PM - *Ugo Carraro: See you to the 2024 Padua Days of Muscle and Mobility Medicine (2024 PDM3)*

07:30 PM – *Dinner*