



March 3rd to 6th Euganean Thermae and Padua, Italy

PADUA DAYS ON MUSCLE AND MOBILITY MEDICINE 2026

ABSTRACT N. 061

SOMMA, MECHANISTIC STUDIES OF MUSCLE AGING IN HUMANS

MITOCHONDRIAL CALCIUM UPTAKE DECLINES DURING AGING AND IS DIRECTLY ACTIVATED BY OLEUROPEIN TO BOOST ENERGY METABOLISM AND SKELETAL MUSCLE PERFORMANCE**Gaia Gherardi¹, Anna Weiser^{2,3}, Flavien Bermont², Eugenia Migliavacca², Benjamin Brinon², Guillaume E. Jacot², Aurelie Hermant², Mattia Sturlese⁴, Leonardo Nogara^{1,4}, Filippo Vascon⁵, Agnese De Mario¹, Andrea Mattarei⁴, Emma Garratt^{6,7}, Mark Burton⁶, Karen Lillycrop^{6,7,8}, Keith M. Godfrey^{6,7,9}, Laura Cendron⁵, Denis Barron², Stefano Moro⁴, Bert Blaauw^{1,10}, Rosario Rizzuto^{1,11}, Jerome N. Feige^{2,12}, Cristina Mammucari^{1,11}, Umberto De Marchi^{2,14}**

¹Department of Biomedical Sciences, University of Padova, Padova, Italy; ²Nestlé Institute of Health Sciences, Nestlé Research, Société des Produits Nestlé S.A., EPFL Innovation Park, Lausanne, Switzerland; ³Molecular Nutritional Medicine, Else Kroner Fresenius Center for Nutritional Medicine, Technische Universität München, Freising, Germany; ⁴Molecular Modeling Section - MMS, Department of Pharmaceutical and Pharmacological Sciences, University of Padova, Padova, Italy; ⁵Department of Biology, University of Padova, Padova, Italy; ⁶Human Development and Health Academic Unit, Faculty of Medicine, University of Southampton, Southampton, UK; ⁷NIHR Southampton Biomedical Research Centre, University of Southampton & University Hospital Southampton NHS Foundation Trust, Southampton, UK; ⁸Biological Sciences, Faculty of Environmental and Life Sciences, University of Southampton, Southampton, UK; ⁹Medical Research Council Lifecourse Epidemiology Centre, University of Southampton, Southampton, UK; ¹⁰Venetian Institute of Molecular Medicine - VIMM, Padova, Italy; ¹¹Myology Center CIR-Myo, University of Padova, Padova, Italy; ¹²School of Life Sciences, Ecole Polytechnique Federale de Lausanne - EPFL, Lausanne, Switzerland.

Abstract withdrawn to prevent dissemination of unpublished results.