Activity-dependent trophism of neurons and their target organs in aging, pathology and rehabilitation

Padova and Terme Euganee, Padua (Italy), April 3 - 5, 2014

Thursday April 3, 2014

Terme Euganee Conference Hall, Hotel Augustus, Montegrotto Terme, Padova, Italy

11.00 Cycling Exercise & Lunch in Euganei Hills

14.00 Partners Meeting of the CBC SK-AT 2007-13 “Mobility in elderly” – Helmut Kern, Chairman

15.00 Registrations

15.55 Reports of the Interdepartmental Research Center of Myology (CIR-Myo), Carlo Reggiani, Chairman

16.00 In vivo studies on muscle protein turnover in ageing, P. Tessari, Dept. Medicine, Padua, Italy

16.30 Multidisciplinary approach to Myotonic Dystrophy: clues to treatment, C. Angelini, et al, IRCCS SanCamillo, Dept. Neuroscience, University of Padua, Italy

16.45 Effects of two weeks of bed rest and subsequent rehabilitation on size and function of single muscle fibres, L. Cancellara et al., DBS, Padua, Italy

17.00 Molecular signalling response to short duration high intensity/low volume resistance training in human skeletal muscle, T. Moro et al., DBS, Padua, Italy

17.15 BMP-SMAD1/5/8-MUSA1 axis is crucial for cancer cachexia, R. Sartori, DBS, Padua, Italy

17.30 Use It or Lose It: High level of physical activity increases reinnervation of aging muscle, S. Mosole, DBS, Padua, Italy

17.45 Coffee Break

18.00 Workshop FES4SEF, Rise-3 or SAVe-ALS? – Winfried Mayr, Stefano Masiero, Chairmen

18.00 FES4SEF, Italy or EU? Multidimensional model of prevention of falls in the elderly, A. Paoli, CIR-Myo, DBS, University of Padova, Italy

18.20 RISE-3, Italy or EU? Further validation and new approaches, S. Masiero, CIR-Myo, Dept. Neuroscience, University of Padova, Italy

18.40 SAVe-ALS-Italy or EU? and FES4ALL (in need): Joining three weak options in a winning EU proposal, U. Carraro, CIR-Myo, DBS, University of Padova, Italy

20.00 Dinner

21.00 Organizing Meeting for proposal(s) to the EU Program HORIZON 2020 - 1
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Friday April 4, 2014

08.00 Complimentary Bus to Padova

Aula Nievo, Palazzo Bo, University of Padua, Via VIII Febbraio 2, Padua, Italy

09.00 Openings Rosario Rizzuto, Head of the Biomedical Sciences Department, University of Padua Davide Ferrari, President of the School of Medicine, University of Padua

09.10 Lectures of the Interdepartmental Research Center of Myology (CIR-Myo) – Carlo Reggiani, Ugo Carraro, Chairmen

09.15 Regulation of body temperature by tonic motor unit activity, Terje Lomo, University of Oslo, Norway

09.45 Activity-dependent control of circadian gene expression in skeletal muscle, Stefano Schiaffino, VIMM, Padova, Italy

10.15 Activity-dependent synaptic competition at developing neuromuscular junctions, Alberto Cangiano, University of Verona, Italy.

10.45 Coffee Break

11.00 Structure-function relationships in skeletal muscles. Lessons from ultrastructure, Clara Franzini-Armstrong, University of Pennsylvania, Philadelphia, PA, USA

11.30 Sarcopenia: definition, diagnosis and functional/metabolic implications, Marco Narici, University of Nottingham, UK

12.00 Muscle rehabilitation and training in older adults, Helmut Kern, Wilhelminenspital, Wien, Austria

12.25 Decline of skeletal muscle power with age: world records of Master athletes point to a human life span of 110 years. Paolo Gava et al., University of Padova, Italy

12.45 Lunch

14.30 Workshop CBC SK-AT 2007-13 “Mobility in elderly” – Helmut Kern, Feliciano Protasi, Chairmen

14.30 Mitochondria association to Ca2+ release units is controlled by muscle activity, Feliciano Protasi, Chieti University, Italy

15.00 Delaying aging of skeletal muscle: use it or lose it, Sandra Zampieri et al., University of Padua and LBI, Wien, Austria

15.20 Exercise and FES influence on functional, histological and molecular parameters of prostate cancer patients, Jan Cvecka et al., Faculty of Physical Education & Sport, Comenius University, Bratislava, Slovakia

15.40 Stability of the lumbo-pelvic region and its role for fall prevention and healthy back, Nejc Sarabon, University of Primorska, Science and Research Centre, IKARUS, Koper, Slovenia

16.00 Coffee Break

16.30 Workshop CBC SK-AT 2007-13 – Molecular Biology – Marco Sandri, Antonio Musarò, Chairmen

16.30 Impairment of autophagy in muscle induces neuro-muscular junction degeneration and precocious aging, Marco Sandri, Dept. Biomedical Sciences, University of Padua, Italy

17.00 Molecular signature of electrical stimulation in seniors, Antonio Musarò, Sapienza University, Rome, Italy

17.30 Molecular mechanisms and therapeutics approaches for cancer cachexia, Dario Coletti, Rome, Italy and Paris, France

17.50 An anti-oxidant treatment prevents/reduces formation of cores in a mouse model of Central Core Disease, Simona Boncompagni, Chieti, Italy

18.10 Coordination of energy demand and ATP production in the mitochondria of working cardiomyocytes, Marcus C. Schaub, Zurich, Switzerland

18.30 Complimentary Return Bus to Terme Euganee Hotel Augustus

19.30 Dinner

21.00 Organizing Meeting for proposal(s) to the EU Program HORIZON 2020 - II
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Palazzo Bo, University of Padova and Terme Euganee Conference Hall, Hotel Augustus, Viale Stazione 150 - 35136 Montegrotto Terme, Padova, Italy
Phone +39 049 793 200 - Fax +39 049 7935185 - http://www.hotelaugustus.com/english/pages/hotel_augustus.php - E-mail: info@hotelaugustus.com


Saturday April 5, 2014

Terme Euganee Conference Hall, Hotel Augustus, Montegrotto Terme, Padova, Italy

09.00 MED*EL Workshop: FES of reinnervating muscle, I – Terje Lomo, Franco Bassetto, Chairmen

09.00 How to stimulate muscles regarding their inherent adaptive capacity, Jonathan Jarvis, Liverpool John Moores University, UK

09.30 Scar wars – A new hope, Markus Gugatschka, Graz, Austria

10.00 Chronic electrical muscle stimulation following nerve injury and immediate repair enhances reinnervation, Mike Willand, Toronto, Canada

10.30 Coffee Break

10.50 MED*EL Workshop: FES of reinnervating Muscle, II – Jonathan Jarvis, Markus Gugatschka, Chairmen

10.50 Liverpool/Vienna implantable neuromuscular stimulator: update, Jonathan Jarvis, Liverpool John Moores University, UK

11.10 Rejuvenation of aged vocalizing muscles by electrical stimulation, Markus Gugatschka, Graz, Austria

11.30 Laryngeal pacing in horses, Jonathan Jarvis, Liverpool John Moores University, UK

11.50 Correlations between muscle and bone density in aging is associated to life style and muscle atrophy, Paolo Gargiulo, et al., Reykjavik, Iceland

12.10 Estimation of signal strength in application of Acousto-Electric-Interaction Effect to monitor denervated muscle stimulation, Thordur Helgason et al., Reykjavik, Iceland

13.30 Lunch

14.30 Neuromodulation in Neurological Disorders – Domenico D’Avella, Stefano Masiero, Chairmen

14.30 Vagus nerve stimulation to limit aura of focal cerebral ischemia: a rat model using an implantable neuromodulator, Luca Denaro, University of Padova, Italy

15.00 Neuromodulation in motor nerve trauma: Accelerating traumatic nerve repair and sustaining muscle trophism, Vincenzo Vindigni et al., University of Padova

15.30 Can Dynamic Echonography combined with EMG analyses of fibrillation/fasciculation increase sensitivity and specificity in the follow-up of denervation atrophy and neuromodulation of denervated/reinnervating muscles? Riccardo Zanato et al., University of Padova, Italy

16.00 Partners Meeting of the Vagus Nerve Stimulation Project

16.30 Coffee Break

17.00 ALS and other Neuromuscular Disorders – Francesco Piccione, Ugo Carraro, Chairmen

17.00 Myofiber-motoneuron interactions in ALS, Antonio Musarò, Rome, Italy

17.30 SAVe-ALS - Ventilation by total implantable options recruiting denervated myofibers, Ugo Carraro, Padova, Italy

18.00 Excitation-Contraction Coupling is affected in Ankyrin 1.5 Null Mice, Roberta Squocco et al., Florence, Italy

18.30 The role of myopalladin and associated myopathies in mammalian skeletal muscle, Marco Linari et al., Florence, Italy

19.00 U. Carraro - Adjì, Arrivederci, Auf Wiedersehen, Àurevoir, Búcsú, Despedida, Poslovite, Sjámsit, See You to 2014 Autumn Padua Muscle Days

Monday April 7, 2014

Hotel Majestic Toscanelli, Via dell’Arco 2, I-35122 Padova (Italy) Phone +39 049.66.32.44 - E-mail: majestic@toscanelli.com - Padua, Italy

09.15 Partners Meeting of the MED*EL Project Rejuvenation of aged vocalizing muscles