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**2009 Spring Padua Muscle Days**

**Terme Euganee & Padova (Italy), April 26 - 28, 2009**

Terme Euganee Conference Hall, Hotel Augustus, Viale Stazione 150 - 35136 Montegrotto Terme (Padova), Italy

*Topics:* 1. RISE2-Italy Project; 2. Functional Imaging of Muscle Tissue; 3. Physical activity at high altitude; 4. Myopathies

*Organizers:* H. Kern, C. Reggiani, G. Faniò and U. Carraro

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**Sunday April 26, 2009**

Terme Euganee Conference Hall, Hotel Augustus, Viale Stazione 150 - 35136 Montegrotto Terme (Padova), Italy

14.00 – 19.00 Registration

14.30 – 15.45 **TM Workshop** To test&train denervated muscles for Therapeutic Electrical Stimulation (TES)

H. Kern & U. Carraro, *Organizers*

**Session 1.** RISE2-Italy Project – Winfried Mayr and Stanley Salmons, *Chairmen*

16.00 **Lecture** Rehabilitation strategies from infrequent paraplegic syndromes to common aging-related muscle weaknesses

Helmut Kern, Wien, Austria

16.30 First experience of TES for difficult-to-stimulate paraplegics, Bizzarrini E. et al., Udine, Italy

16.45 TES of denervated muscles after peripheral nerve lesion, Masiero S. et al., Padova, Italy

17.00 Joint stability and balance training in injury prevention and rehabilitation protocols, Sarabon N. et al., Koper, Slovenia

17.15 Study of muscular activation during whole body vibration training, Bifulco P. et al., Napoli, Italy

Tea Break

**Session 2.** Functional Imaging of Muscle Tissue – Helmut Kern and Stanley Salmons, *Chairmen*

17.30 Muscle density distribution of Rectus Femoris in Electrical Stimulation Therapy, Helgason T. et al., Reykjavik, Iceland

17.45 Direct and indirect effects on bone mineral density in paraplegic patients due FES, Gargiulo P. et al., Reykjavik, Iceland

18.00 Ultrasonography of medium and small vessels, Martini R., Padova, Italy

18.20 Functional EchoMyography of denervated muscle. First experience in Padova. Stramare R. et al, Padova, Italy

18.40 General Discussion

20.0 Dinner

Monday April 27, 2009

8.00 Complimentary Bus to the Archivio Antico, Palazzo Bo, University of Padova, Via VIII Febbraio, 3

9.00 cirMYO Lectures Foreword, Ugo Carraro, Padova, Italy

9.15 Muscle design strategies, Clara Franzini-Armstrong, Philadelphia, USA

9.45 Sarcomeric myosins back on stage: novel ancient isoforms in mammalian muscles and nature's bricolage, Stefano Schiaffino, Padua, Italy

10.15 Plasticity and adaptive change: lessons from a paradigm shift, Stanley Salmons, Liverpool, U.K.

10.45 Break

11.00 Hypoxia, the third wheel between nerve and muscle, Carlo Reggiani, Padova, Italy

11.30 Muscle transcriptional pathways with electrical stimulation, Jonathan Jarvis, Liverpool, Italy

12.00 Histological characteristics of cultured human muscle tissue. Light- and electron microscopy, Istvan Gati, Linköping, Sweden

13.00 Lunch

Session 3. Physical activity at high altitude: general, cellular and molecular adaptations

C. Reggiani & G. Fanò, Organizers & Chairmen

15.00 Introductory lecture: Work capacity and adaptation in hypobaric hypoxia, Paolo Cerretelli, Milan, Italy

15.45 Outcome of the Manaslu project: one month stay over 5000 mt, Vittore Veratti

15.00 Muscle mass and muscle work capacity after strenous activity in high quote, Doria C., Bosco G., Tartaro A., Di Tano G

15.15 Molecular, cellular muscle adaptations after physical activity in hypobaric hypoxie, Toniolo et al., Padova, Italy

15.30 Oxygen supply and oxygen utilization in muscles after chronic exposure to hypobaric hypoxie, C. Capelli, F. Schena, S. Pogliaghi, G. Ferretti.

15.45 Break

16.00 The cellular basis of muscle regenerative capacity after physical activity in hypoxic conditions, T. Pietrangelo, G. Fanò, S. Fulle.

16.15 Genomic and Proteomic approaches to study skeletal muscle after hypoxia, R. Mancinelli, C. Di Ilio, S. Angelucci.

16.30 Red blood cell senescence and neocytolysis in humans after high altitude acclimatization, G. Antonutto, A. Risso, Udine, Italy

16.45 Endocrine and metabolic responses to extreme altitude and physical exercise in climbers. To be announced

17.00 Visit of the Orto Botanico, University of Padova

20.00 cirMYO Dinner
Tuesday April 28, 2009
Terme Eugane Conference Hall, Hotel Augustus, Viale Stazione 150 - 35136 Montegrotto Terme (Padova), Italy

Session 4. Myopathies – Istvan Gati and Libero Vitiello, Chairmen

9.20  The expression of developmental markers in muscle fibers in diagnostic biopsies, Olaf Danielsson, et al., Linköping, Sweden

9.40  Influence of passive movement on reinnervation of denervated rat muscle, Anna Jakubiec-Puka, Warswa, Poland

10.00 A defective SERCA1 protein is responsible for congenital pseudomyotonia in chianina cattle, Roberta Sacchetto, et al., Padova, Italy

10.20  Disferlinopathies, pathogenesis Carlo Borsatto et al., Padova, Italy

10.40  Break

11.00  Disferlinopathies, effects of physical activity, Carlo Borsatto et al., Padova, Italy

11.20  Myopathy in neoplastic patients? Sandra Zampieri et al., Padova, Italy

11.40  Recovery of knee muscle after surgery, Nicoletta Adami et al., Padova, Italy

12.00  Human denervated muscle, something new yet, Ugo Carraro et al., Padova, Italy

12.30  U. Carraro Auf Wiedersehen, Sjáms, Aurevoir, Arrivederci, See You to the 2009SAutumn PaduaMuscleDays!