



IIM – Interuniversity Institute of Myology

University of Padua – cirMYO Interdepartmental Research Center of Myology

University of Chieti – BAMS Department of Basic and Applied Biomedical Sciences



2008Autumn PaduaMuscleDays

FES of Denervated Muscles & more

Terme Euganee, Padova (Italy), October 19 - 21, 2008

Terme Euganee Conference Hall, Hotel Augustus, Viale Stazione 150 - 35136 Montegrotto Terme (Padova), Italy
Phone +39 049 793 200 - Fax +39 049 793518 - http://www.hotelaugustus.com/english/pages/hotel_augustus.php

Topics: FES of denervated muscle – Quantitative Imaging of Muscle Tissue – Polymyositis

Organizers: H. Kern, T. Helgason, G. Fanò and U. Carraro

Sunday October 19, 2008

- 16.00 **TM Workshop** Test&Train Denervated Muscles by FES
H. Kern, S. Masiero & U. Carraro, *Organizers*

Monday October 20, 2008

Session 1. Quantitative Imaging of Muscle Tissue – T. Helgason & W. Mayr, Chairmen

- 9.00 *Lecture:* New devices for muscle stimulation and testing - *Winfried Mayr, Vienna, Austria*
9.45 Patella bone density by denervated and degenerated thigh muscles - T. Helgason, Reykjavic, Iceland;
10.15 Quantitative Fat and Muscle changes in DDM undergoing FES - P. Gargiulo, Reykjavic, Iceland
10.45 Ultrasound (US) in muscle pathology - R. Stramare, Padua, Italy
11.15 Coffee break
11.45 Skeletal muscle and inflammation: the heterogeneous immunological synapse - C. Borsato et al., Padua, Italy
12.15 Impact on clinical results of the myofiber to non-muscle tissue ratio in muscle biopsies of the European Project Rise - U. Carraro, Padua, Italy
13.0 *Lunch & Posters*

Session 2. Polymyositis and other myopathies – A. Doria & C. Angelini, Chairmen

- 15.00 *Lecture:* Calsequestrin 1: a new candidate gene for Malignant Hyperthermia (MH) and Exertional/Environmental Heat Stroke (EHS), *Feliciano Protasi, Chieti, Italy*
15.45 Idiopathic inflammatory myopathies: an update on the pathogenesis. G. Vattermi, Verona, Italy
16.15 Expression of regeneration markers in muscle biopsies from patients affected with autoimmune myositis - S. Zampieri, Padua, Italy
16.45 Autoimmune myositis: how many guiltyest are there? New insights beyond muscle damage, repair and therapy - C. Borsato et al., Padua, Italy
17.15 Focal transformation into bone/cartilage tissue within diaphragm of α -sarcoglycan-deficient mice - A. Jakubiec et al., Warsaw, Poland
17.45 Muscle *morulae*, markers of long-term denervation, are 3 to 5 year-old human denervated myofibers - N. Adami et al., Padua, Italy
20.00 cirMYO Dinner



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Tuesday October 21, 2008

Session 3. FES of denervated muscle: Rise2-Italy Trial – S. Masiero & R. Marenzi, Chairmen

- 9.00 *Lecture:* Final Report of the Eu-RISE-Project - *Helmut Kern, Vienna, Austria*
- 9.50 Rise2-Italy Trial: Muscle FES after peripheral nerve lesions. Our approach - E. Rossato et al., Padua, Italy
- 10.10 Ultrastructure of UMN and LMN denervated muscle before and after FES-training – Simona Boncompagni et al., Chieti, Italy
- 10.30 Coffee break
- 10.00 Epidemiology of *Cauda Equina* syndrome in the Spinal Unit of the Vicenza General Hospital - F. Cortese et al., Vicenza, Italy
- 11.20 08-Rise2-Italy Trial: How to enroll and start stimulation. A case report - M. Ferraro et al., Padua, Italy
- 11.40 Correlation between muscle fiber atrophy and survival in ALS - M. Volpe et al., Padua, Italy
- 12.00 *Business Meeting of the 08Rise2-Italy Trial*, U. Carraro & S. Masiero, Organizers

- 13.00 *Lunch*

Session 4. Mechanisms of long-term denervated muscle sustained excitability - G. Fanò & U. Carraro, Chairmen

- 15.00 *Lecture:* Muscle stretch improves external Ca²⁺ influx in long-term denervated skeletal muscles of the rat - *Fabio Francini, Firenze, Italy*
- 15.45 Membrane action potential of human long-term denervated muscle - C. Hofer, et al., Vienna, Austria
- 16.15 Oxidative stress, membrane damage and [Ca²⁺] I unbalance in long-time denervated skeletal muscle - S. Beccafico, et al., Chieti, Italy
- 17.00 Persistence of regenerative myogenesis and of ion channel expression in spite of down-regulation of activity-dependent genes in long-term denervated rat muscle - M. Marini et al., Bologna, Italy
- 17.30 Neural potential of a stem cell population in the adipose tissues - B. Zavan, L. Lancerotto, V. Vindigni, Padua, Italy
- 18.00 Fiber type distribution in UMN denervated muscles before and after 2-year FES training - Biral D. et al., Padua, Italy
- 18.30 *U. Carraro Auf Wiedersehen, Sjámst, Aurevoir, Arrivederci, See You to the 2009Spring PaduaMuscleDays!*