

2007Autumn PaduaMuscleDays

Muscle Recovery&Reconstruction

Terme Euganee&Palazzo Bo, Padova (Italy), October 14-16, 2007

Terme Euganee Conference Hall, Hotel Augustus, Viale Stazione 150 - 35136 Montegrotto Terme (Padova)
Phone +39 049 793 200 - Fax +39 049 793518 - http://www.hotelaugustus.com/english/pages/hotel_augustus.php
2007Autumn PaduaMuscleDays Openings: Archivio Antico of the Palazzo Bo, Padua University, October 15, 2007.
Via VIII FEBBRAIO, 3 - I-35100 Padova, Italy - Phone +39 049 8273300 - <http://www.unipd.it/>

Organizers

Ugo Carraro, Juan C Chachques, Giorgio Fanò, Helmut Kern, Urszula Slawinska

Topics

Exercise-related muscle adaptation & rehabilitation – Myogenic/neurogenic stem cells & muscle reconstruction
Cardiac Bio-Assists: from skeletal muscle options to stem cell approaches

PROGRAM

Sunday October 14, 2007

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

16.00-19.00 **Registration & Posters**

17.00 *2007Autumn PaduaMuscleDays: Translational Myology Workshop*

New strategies for functional electrical stimulation of muscles

G Vrbova and H Kern, Chairs

Discussants: Winfried Mayr, Wien, Austria; Thordur Helgason, Reykjavik, Iceland;

Jonathan C Jarvis, University of Liverpool, UK; Ugo Carraro, Padua, Italy

20.00 *Dinner*

Monday October 15, 2007

Archivio Antico, Palazzo Bo, University of Padova, via VIII Febbraio 3, Padova, Italy

09.15 **Openings:** M Midrio, F Mazzoleni, U Carraro

Session 1. Exercise-related muscle adaptation & rehabilitation

The human denervated muscle & FES – G Vrbova & G Fanò, Chairs

09.30 Jonathan C Jarvis, University of Liverpool, UK

Stimulation of long-term denervated lower hind limb muscles in the rabbit

10.00 Helmut Kern, Wilhelminenspital, Wien, Austria

Restoration of the long term denervated human muscle by FES: Functional aspects

10.30 Ugo Carraro, University of Padova, Italy

Restoration of the long term denervated human muscle by FES: Biopsy results

11.00 Winfried Mayr, Medical University Wien, Austria

Equipments for FES of denervated muscles: Demands and technical answers

11.30 Thórdur Helgason, University of Reykjavik, Iceland

Three-dimensional monitoring of muscle and bone during FES of denervated human muscle

12.00 Paolo Gargiulo, University of Reykjavik, Iceland

Changes of shape in denervated rectus femoris muscle influenced by FES

12.30 Visit of The Anatomical Theatre & Lunch



Conference Secretariat: LUZ DE LUNA – E-mail: luzdeluna@luzdeluna.it

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Monday October 15, 2007

Archivio Antico, Palazzo Bo, University of Padova

- Session 2. *Myogenic/neurogenic stem cells & muscle reconstruction*
Cardiac Bio-Assists: From skeletal muscle options to stem cell approaches
JC Chachques & U Carraro, *Chairs*
- 14.00 Jonathan C Jarvis, University of Liverpool, UK
Skeletal muscle, myoblasts, and cardiac assistance
- 14.30 Juan C Chachques, University of Paris, France
From latissimus dorsi dynamic cardiomyoplasty to stem cell therapy
- 15.00 Jesus Herreros, University of Navarra, Spain
Cellular cardiomyoplasty with skeletal myoblasts
- 15.20 Jorge Trainini, University of Buenos Aires, Argentina
Skeletal muscle assist (dynamic aortomyoplasty) and cellular cardio-implants
- 15.40 Elisa Messina, La Sapienza University, Roma, Italy
Cardiospheres for myocardial regeneration: research and development
- 15.55 Giacomo Frati, La Sapienza University, Roma, Italy
Cardiospheres for myocardial regeneration: clinical application
- 16.10 Break
- 16.30 George Genovese, University of Pittsburgh, USA
Stem cell pre-conditioning for myocardial regeneration
- 16.50 Abdel Shafy, University Hospital, United Arab Emirates
Electrostimulated dynamic cellular cardiomyoplasty
- 17.10 Michael Didié, University of Hamburg, Germany
Tissue engineering approaches for myocardial support and regeneration
- 17.30 Olivier Schussler, University of Paris, France
Improvements in collagen matrix for the creation of bioartificial myocardium
- 17.50 Pierre Grandjean, Bakken Research Center, Maastricht, The Netherlands
Heart failure monitoring: applications in Cardiac Bioassist
- 18.30 **Visit of The Scrovegni Chapel:** http://www.cappelladegliscrovegni.it/eng/index_e.htm
- 20.30 *Dinner*



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Tuesday October 16, 2007

Session 3. Myogenic/neurogenic stem cells & muscle reconstruction II

A Musarò & MR Dimitrijevic, *Chairs*

- 09.00 Gerta Vrbova, London, UK
Cholinergic neurons from myenteric plexus ganglia: A useful source of transplantable motoneurons?
- 09.30 Antonio Musarò, University of Rome, Italy
Stem cell, muscle regeneration and the role of tissue niche
- 10.00 Feliciano Protasi, University of Chieti, Italy
Reconstruction of denervated human muscle by FES in complete absence of innervation
- 10.30 Vincenzo Vindigni et al., University of Padua, Italy
New 3D hyaluronan-based scaffold for in vitro reconstruction of the rat sciatic nerve
- 10.45 Rossella Sferazza et al., University of Padua, Italy
A rat model of a vascularized muscle construct
- 11.00 Break and Poster Session
- 11.20 Andrea Pellacani et al., Modena Policlinico, Italy
Engineering muscle tissue in load and unload model
- 11.40 Fabio Francini, University of Florence, Italy
Functional integration by gap-junctions between skeletal myoblasts and cardiomyocytes in coculture is favored by relaxin treatment
- 12.00 Libero Vitiello et al., University of Padua, Italy
Systemic administration of antisense oligonucleotides via encapsulated lipoplexes can lead to dystrophin restoration in cardiac and skeletal muscle of mdx mice
- 12.20 Maurizio D Baroni et al., University of Padua, Italy
Macrophage-secreted factors enhance the in vitro expansion of muscle precursor cells while preserving their myogenic potential
- 12.40 Sandra Zampieri et al, University of Padua, Italy
Expression of myositis specific autoantigens during postnatal myogenesis and muscle regeneration
- 13.00 Lunch and Poster Session



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- Session 4.* **Exercise-related muscle adaptation & rehabilitation III**
U Slawinska & C Angelini, *Chairs*
- 14.30 Gerta Vrbova London, UK
Comparison of exercise and electrostimulation effects on skeletal muscle properties
- 15.00 Jan Celichowski, University School of Physical Education, Poland
The transformation of motor units evoked by increased and decreased activity
- 15.30 Urszula Slawinska, Warsaw, Poland
Changes in contractile and structural properties of fast muscles after spinal cord transection in rats
- 16.00 Anna Jakubiec-Puka, Warsaw, Poland
Influence of locomotor training on the structure and myosin heavy chains of the denervated rat soleus muscle
- 16.30 Break and Posters
- 17.00 Tiziana Pietrangelo et al., University of Chieti, Italy
Physical activities against Sarcopenia: an integrated experimental approach
- 17.30 Tessa Gordon, Edmonton, Alberta, Canada
Early detection of denervated muscle fibers in the G93A mouse model of ALS
- 18.00 Mija Meznaric-Petruša et al., University of Ljubljana, Slovenia
How informative is in children muscle biopsy to diagnose mitochondrial disease?
- 18.30 Milan R Dimitrijevic, Houston&Ljubljana *Where we are & Future directions*
- 19.00 Ugo Carraro
Arrivederci, Aufwiederseen, Aurevoir, Hasta, See You to 2008Spring PaduaMuscleDays

POSTERS

- P 01 - Adami Nicoletta et al.
Preliminary results of “swinging” protocol (vibration) for muscle training in young sportsmen
- P2 - Bernareggi Annalisa et al.
Microtransplantation of acetylcholine receptors and calcium channels from rat skeletal muscle to frog oocytes
- P 3 - Biral Donatella et al.
Atrophy-resistant fibers in permanent peripheral denervation of human skeletal muscle
- P 4 - Drzymala-Celichowska Hanna, J. Celichowski.
Differences between male and female motor units of the medial gastrocnemius muscle in rats
- P5 - Patruno Marco et al.
Embryonic chick cocultures of neuronal and muscle cells
- P6 - Poltronieri Carlo et al.
Tissutal expression of IGF-I and myostatin during development and growth of sea bass (Dicentrarchus labrax).



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