



University of Padua – cirMYO Interdepartmental Research Center of Myology – Città di Padova

IIM Interuniversity Institute of Myology

2008Spring PaduaMuscleDays

Functional Recovery of Muscle Tissue

Terme Euganee & Palazzo Bo, Padova (Italy), April 13 - 15, 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

Openings: Aula Magna of the Padua University, April 14, 2008 - Via VIII FEBBRAIO, 3 - I-35100 Padova, Italy

Organizers: Helmut Kern, Stanley Salmons, Giorgio Fanò, Ugo Carraro - Topics : Cell biology of recovering muscle – FES

Sunday April 13, 2008

Terme Euganee Conference Hall, Hotel Augustus, Viale Stazione 150 - 35136 Montegrotto Terme (Padova), Italy –
Registration 16.00 – 19.00

16.30 – 18.30 **TM Workshop:** FES of plegic muscle: Demonstrations, H. Kern, W. Mayr, U. Carraro, *Organizers*

Monday April 14, 2008

8.00 Bus transfer to Padua

The Aula Magna, Palazzo Bo, University of Padua, Via VIII FEBBRAIO, 3 - I-35100 Padova, Italy

Celebration of Massimiliano Aloisi life and work

9.10 Vincenzo Milanese, *University of Padua, Rector*

9.20 Alessandro Mazzucco, *University of Verona & Piergiorgio Settembrini, University of Milan*

9.30 Flavio Zanonato, *Major of Padua*

9.40 GF Azzone, Padua, Italy: *Massimiliano Aloisi*

9.50 S. Schiaffino, Padua, Italy: *The "School of Myology" in Padua. Recent developments*

Break

Invited Lectures, S. Schiaffino, Chairman

11.30 Stanley Salmons, Liverpool, UK: *Understanding some of the influences on the response of muscles to long-term electrical stimulation*

11.10 Helmut Kern, Vienna, Austria: *RISE Project and beyond, the clinical value of FES*

11.50 Feliciano Protasi, Chieti, Italy: *Denervation-induced disarrangement of muscle fibers and effectiveness of FES in restoring their ultra-structure: the experience gained in four year of collaboration within the EU RISE*

12.30 *Visit of the Anatomical Theatre & Lunch*

Session 1. Cell biology of recovering muscle – S. Salmons & G. Abatangelo, Chairmen

14.00 J. Jarvis, Liverpool, UK: *Transcription in stimulated muscle*

14.30 A. Musarò, Rome, Italy: *Role of mIGF-1 and tissue niche on muscle regeneration and repair*

15.00 M. Sandri, Padua, Italy: *Signaling during muscle wasting*

16.45 D. Coletti, Rome, Italy: *Hampered muscle homeostasis and functional recovery in the presence of cytokines*

16.00 T. Helgason, Reykjavic, Iceland: *Comparing muscle and bone density changes in denervated and degenerated muscle treated with electrical stimulation*

Break

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Session 2. Cell biology of recovering muscle, II – J. Jarvis & A. Stracher, Chairmen

- 17.15 M. Sampaolesi, Leuven, Belgium: *Role of sarcoglycan proteins in proliferation and differentiation of satellite cells*
- 17.45 F. Naro, Rome, Italy: *Non steroidal anti-inflammatory therapy in Duchenne Muscular Dystrophy*
- 18.15 F. Francini, Firenze, Italy: *Muscle stretch injury may be reduced by sphingosine 1-phosphate (S1P) treatment*
- 18.40 S. Zampieri, Padua, Italy: *New concepts for the role of immune-inflammatory markers in the pathogenesis of autoimmune myositis*
- 19.00 Bus transfer to Montegrotto Terme
- 20.15 Terme Euganee Conference Hall: *Dinner & Concert of Malipiero Trio & Veronica Filippi, Soprano*

Terme Euganee Conference Hall, April 14, 2008

21.15 - Concert

MALIPIERO TRIO & VERONICA FILIPPI, Soprano

ASTOR PIAZZOLLA (1921-1994) Da Le Cuatro estaciones (Arr. : José Bragato) <i>Primavera Porteña</i> <i>Otono Porteño</i>	12'
GIOVANNI SOLLIMA (1962) "Reperto n.12" su un frammento schubertiano -Andante	12'
Break	
G. ROSSINI (1792-1868) da "Il barbiere di Siviglia": aria di Berta "Il vecchiotto cerca moglie"	5'
G. ROSSINI (1792-1868) da "La Cenerentola": rondò di Cenerentola "Nacqui all'affanno"	6'
JOHANNES BRAHMS (1833-1897) Dal Trio in Si maggiore op. 8 -Allegro	12'
VINCENZO BELLINI (1801-1835) da "I Capuleti e i Montecchi": cavatina e cabaletta "Se Romeo t'uccise un figlio, La tremenda ultrice spada"	7'
GIACOMO PUCCINI (1858-1924) da "Il tabarro": aria di Frugola "Se tu sapessi"	4'

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Tuesday April 15, 2008

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

Session 3. Functional Electrical Stimulation – H. Kern & G. Fanò, *Chairmen*

- 9.00 S. Salmons, Liverpool, UK: *Therapeutic effects of stimulation on denervated muscle: taking the holistic view*
9.30 W. Mayr, Vienna, Austria: *Stimulation equipment for direct muscle stimulation: Available and prospective solutions.*
10.00 P. Gargiulo, Reykjavik, Iceland: *Restoration in denervated muscle treated with FES: Quantitative measurements of volume, density and shape*
10.30 U. Carraro, Padua, Italy: *INTERREG III A – Functional & structural results of the Vienna-Bratislava Project*

Break

- 11.15 F. Protasi, Chieti, Italy: *Spatial relationships between calcium release sites and mitochondria in developing and adult muscle*
11.45 A. Jakubiec-Puka, Warsaw, Poland: *Effect of passive movement on the denervated rat leg muscles depends on the training intensity and time of its beginning*
11.15 T. Pietrangelo, Chieti, Italy: *Human satellite cells-dependent regeneration of aged skeletal muscle: physiology to molecular biology*

12.30 Lunch & Posters

- Poster 1. Y. Stickler, Vienna, Austria: *Modeling the denervated human thigh: Effects of functional electrical stimulation (FES) and characteristics of the fiber excitation process*
Poster 2. J. Martinek, Vienna, Austria: *Influence of the electrode position on the potential distribution and excitation of a denervated muscle fiber*
Poster 3. P.P. Breen, Galway, Ireland: *An exploration of M-wave response to electrical stimulation in the triceps surae*
Poster 4. A.C. Nascimbeni, Padua, Italy: *Molecular pathology and enzyme processing in various phenotypes of acid maltase deficiency*
Poster 5. D. Biral, Padua, Italy: *FES training improves structure and function of tight muscles in upper motor neuron thoracic level paralysis*
Poster 6. N. Adami, Padua, Italy: *Long-term survival (in tens of months) of rat muscle fibers after bilateral sciectomy*
Poster 7. U. Carraro, Padua, Italy: *FES training improvements of tight muscles structure in lower motor neuron paralysis: Histochemical and immunohistochemical evidence*
Poster 8. Sacchetto R, Padua, Italy: *SERCA1 activity in chianina cattle congenital pseudo-myotonia*

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Session 4. The 2008-rise-2-Italy Trial – S. Masiero & A. Zampa, Chairmen

14.00 A. Zampa, Udine, Italy: *Epidemiology and clinical management of flaccid paraplegia in Friuli*

14.20 H. Kern, Vienna, Austria: *FES of DDM: Who benefits. How much they benefit.*

14.40 Round Table *Introduction of U. Carraro, Padua, & G. Fanò, Chieti, Italy*
 E. Bizzarrini, Udine, Italy
 M.R. Bellomo, Chieti, Italy
 R. Saggini, Chieti, Italy
 H. Cerrel-Bazo, Milan, Italy
 C. Chisari, Pisa, Italy
 S. Masiero, Padova, Italy
 P Breen, Nuns Island, Ireland

Break

Session 5. Cell biology of recovering muscle, III – M. Sandri & F. Protasi, Chairmen

16.30 A. Stracher, New York, US: *Targeted delivery of drugs to skeletal muscle*

17.00 L. Vitiello, Padua, Italy: *In vivo delivery of naked and lipid-complexed antisense oligos in mdx mice: Effects on skeletal and cardiac muscle*

17.20 I. Gáti, Linköping, Sweden: *In vitro formation and morphological characteristics of spheroid-like structures in cultures of muscle biopsies*

17.40 V. Vindigni, Padua, Italy: *Dermis as a source of multipotent stem cells*

18.00 C.A. Rossi, Padua, Italy: *Are satellite cells a homogenous population? Adipogenic potential is linked to their proliferative capacity*

18.20 N. Adami, Padua, Italy: *Long -term survival of muscle fibers after peripheral denervation*

18.40 R. Sferrazza, Padua, Italy: *Myofiber regeneration and spontaneous reinnervation in post traumatic free flap reconstruction*

19.00 *Ugo Carraro See You, Auf Wiedersehen, Sjámt, Aurevoir, Arrivederci to the 2008Autumn PaduaMuscleDays!*

BAM On-Line

<http://www.bio.unipd.it/bam/bam.html>
E-mail: ugo.carraro@unipd.it



Conference Secretariat: LUZ DE LUNA

E-mail: luzdeluna@luzdeluna.it
Phone +39 049 8774705; Fax +39 049 8774733 - P. IVA 03556200289

UNIPRESS

<http://www.unipress.it>
E-mail: info@unipress.it