

Editorial

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Introduction to the 2009Spring Padua Muscle Days

We are here today in this University of Padova *Archivio Antico* that stores the uninterrupted collection of Students' Patents since 1222, to continue an initiative of the University of Padova Interdepartmental Research Center of Myology: the cirMYO Lectures.

It is our hope that the Lecturers will provide updated information in concise style to transform the overflow of on-line information into concepts for young students and non-specialists. Only scientists that did the job may do this and select what is needed to add good files to our *Archivio Antico*: new records of well-educated graduates and professionals.

The first Lecture of the 2009Spring PaduaMuscleDays had been given yesterday by Dr. Helmut Kern, whose strong and determined leadership enabled us to initiate a multinational study, a European Project Rise, that recently established the rational bases for the successful empirical management of denervated muscles by FES. New clinically relevant results on Functional Imaging of Muscle Tissue were yesterday described by the Icelandic partners Thordur Helgason and Paolo Gargiulo and by Stefano Masiero, Roberto Stramare and Romeo Martini as speakers and partners of the Padua cirMYO.

Clara Franzini-Armstrong, Stefano Schiaffino and Stanley Salmons continue today. There is no need to stress their many contributions to Myology. Let us just remember that Clara is well known for her ultrastructural studies of the components of the excitation-contraction coupling apparatus in striated muscles and co-editor of Myology, "the book" in the field. Stefano established immunohistochemistry of contractile proteins, adding the "final" evidence of isomyosin heterogeneity in cardiac and skeletal muscles. Stanley originated the explanation of muscle plasticity as an adaptive response, a concept which is widely accepted today, but was strongly resisted when the seminal papers were published.

Jonathan Jarvis, Feliciano Protasi, Istvan Gati, Carlo Reggiani will cover "gene expression adaptation during stimulation remodelling", a new "mouse model of Malignant Hyperthermia", clinical relevance of "muscle tissue in vitro cultures", and molecular and functional characteristics of a "masticatory muscle myosin heavy chain", respectively.

Paolo Cerretelli will open a busy afternoon with a lecture on adaptation of man to hypoxia. Tomorrow morning Fabio Francini will complete the 2009Spring Series with a Lecture on basics of long-standing denervated muscle electrophysiology.

I am confident that the short reviews that Lecturers and Speakers would like to submit may fill the first of a series of Review Issues of the European Journal of Translational Myology that BAM Advisors would like to edit and print during the next three years. These reviews will provide the contents of "Concise Myology", a multilingual textbook for Translational Myology Courses for biology and biomedical graduates and for medical, bioengineering and other non-medical Professionals.

You are invited to discuss the Review Series this evening after the cirMYO Dinner at the Hotel Augustus. A slide shows the many muscle functions to be covered in health and disease.

Servomotor for ventilation and joint mobility
Burner for thermogenesis
Pump of leg blood return
Plastic material to shape the body
Anti-decubitus polymers to support bone spikes
Aminoacid reserve in fasting

You are also invited to suggest Topics and to organise Sessions of the 2010Spring PaduaMuscleDays. BAM Friends will celebrate 20 years of the journal and 30 years of Terme Euganee & Padua Muscle Meetings. Marcus Schaub, the co-founder of the European Muscle Club, accepted invitation and will chair the Scientific Board of the Meeting.

Please, chairmen it is your turn: open the scientific sessions of this busy Padua Muscle Day.

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