

EDITORIAL:

The 23rd memorial meeting devoted to Prof. Janez Plečnik took place at the Medical Faculty in Ljubljana on December 10-11, 1992. Prof. Plečnik, who was one of the founders of the Slovene Medical Faculty, the first Slovene anatomist and pathologist, a scientist and founder of Slovene medical terminology, was employed at the Faculty from 1919 when this institution was established till his death in 1940.

The topic of this meeting organised interdisciplinary, was skeletal muscle. The participants were Slovene experts of different profession, engaged in research of skeletal muscle, diagnostics of muscle diseases and rehabilitation. They represented the following institutes and clinics: Institute of Anatomy, Institute of Physiology, Institute of Pathophysiology and Institute of Pathology, all belonging to the Medical Faculty; Institute of Clinical Neurophysiology, Institute of Radiology, Department of Rheumatology, Paediatric Clinic, Department of Medical Genetics of the Clinic for Gynaecology, all the mentioned institutions belonging to the University Medical Centre in Ljubljana; Faculty for Electrotechnics and Computer Engineering, University Rehabilitation Institute, Institute Jozef Stefan and Zootechnical Department of Biotechnical Faculty. The following acknowledged experts from abroad gave lectures as invited speakers: Stefano Schiaffino from Padova, Italy, Dirk Pette, from Konstanz, Germany and Theodoros Kyriakides from Nikosia, Cyprus.

The meeting had two goals: to give an overview of the present knowledge about the structure and function of the skeletal muscle and the methods used in research and diagnostics, as well as to inform about the research work in myology, performed in Slovenia.

Main topics of the meeting were the following: Morphological, physiological and biochemical characteristics of muscle fibres, Growth, development and regeneration, Plasticity of skeletal muscle and Muscle diseases. The contributions were presented as lectures and posters.

At this occasion the participants were invited to visit the laboratories of the Institute of Anatomy to be acquainted with the research work of the Institute.

The meeting was closed by the traditional concert of medical doctors in the National Gallery, where the student of medicine, with the best marks in anatomy, histology and embryology so as pathology was awarded by the Plečnik prize.

The meeting was financially supported by the Ministry of Science and Technology of the Republic Slovenia.

Ida Erzen

Institute of Anatomy, Institute of Histology and Embryology, Institute of Pathology, Institute of Forensic Medicine, in cooperation with Institute of Pathological Physiology Medical Faculty and Institute of Clinical Neurophysiology Clinical Center

THE 23rd PROFESSOR JANEZ PLEČNIK MEMORIAL MEETING

with international participation

SKELETAL MUSCLE

10th and 11th December, 1992

in the great hall of the Medical Faculty in Ljubljana, Korytkova 2

The president of honour Professor Valentina Kobe

Under the auspices of Medical Faculty in Ljubljana, Clinical Center in Ljubljana, Slovene Medical Society, Ministry of Science and Technology of Slovenia

PROGRAMME

10th December, 1992

8.00 Opening ceremony

Boris Šuštaršič: Progressive neuromuscular disorders and social life of affected individuals.

MORPHOLOGICAL, PHYSIOLOGICAL AND BIOCHEMICAL CHARACTERISTICS OF MUSCLE FIBRES (lectures)

Moderators: Miroslav Brzin, Vito Turk

9.00 Stefano Schiaffino (Padova, Italy). Myosin types and fibre types in skeletal muscle.

9.45 Alenka Dekleva, Senja Mali-Brajčič. Muscle fibre types discrimination according to ultrastructural parameters.

9.55 Ida Eržen, Miroslav Kališnik. Anisotropy: a source of errors in morphometric analysis of skeletal muscle tissue.

10.05 Franjo Pernuš, Ida Eržen. Computer-aided morphometric analysis of muscle fibres.

10.25 Ida Eržen, Marko Ambrož. Microdensitometrical determination of the histochemical profile for a skeletal muscle.

BREAK

11.00 Duška Meh, Vita Cebašek. Morphology and physiology of the muscle spindle.

11.10 Miroslav Brzin. Cholinesterase and motor end plate.

11.40 Anton Koren. Skeletal muscle energy metabolism.

11.55 Jože V. Trontelj. Length-dependent changes in muscle fibre conduction velocity.

12.05 Vladimir Cotič. Protein degradation in muscle.

12.20 Vito Turk. Muscle wasting diseases and related lysosomal cysteine proteinases and their endogenous protein inhibitors.

GROWTH, DEVELOPMENT AND REGENERATION (lectures)

Moderators: Alenka Dekleva, Janez Sketelj

15.00 Erika Snoj-Cvetko. Histochemical and morphometric characteristics of vastus lateralis muscle in children.

15.10 Janez Sketelj. Regeneration of skeletal muscles after injury.

15.45 POSTER PRESENTATION

MORPHOLOGICAL, PHYSIOLOGICAL AND BIOCHEMICAL CHARACTERISTICS OF MUSCLE FIBRES (posters)

- Ludvik Travnik, Franjo Pernuš, Ida Eržen. Histochemical analysis of the vastus lateralis and the vastus medialis muscle.
- Bojan Vandot, Dean Ravnik. Histochemical analysis of muscle fibre types in human temporalis muscle.
- Zdenka Petrač, Anton Koren. Effect of IAA and 2,4 DNFB on isotonic tetanic rise-time of isolated rat soleus muscles.
- Lidija Honzak, Milan Schara, Anton Koren. EPR spin-probe oxymetry of isolated skeletal muscle mitochondria.

GROWTH, DEVELOPMENT AND REGENERATION (posters)

- Dean Ravnik, Bojan Vandot. Skeletal muscle regeneration with delayed reinnervation.
- Alenka Dekleva. Regeneration of muscle fibres following organophosphate poisoning.
- Vika Smerdu, Ida Eržen. Histochemical and morphometric properties of some skeletal muscles of different-aged pigs.
- Dejan Skorjanc, Ida Eržen, Silvester Zgur. Differences in morphometrical properties and structure of fascicles in pigs of different breeds.
- Miran Kastelic, Andrej Salehar, Milena Kovač. Note on nonlinear statistical models to investigate allometric growth.
- Silvester Zgur, Martina Henning, Erhardt Kallweit. Allometric growth of some muscles and their components in pigs.

16.30 DISCUSSION ON POSTERS

Moderators: Alenka Dekleva, Janez Sketelj

Open doors at the Institute of Anatomy

11th December, 1992

PLASTICITY OF SKELETAL MUSCLE (lectures)

Moderators: Jože Trontelj, Blaž Rozman

8.00 Dirk Pette ((Konstanz, Germany). Plasticity of skeletal muscle.

9.00 Marko Munih, Alojz Kralj. Criteria for skeletal muscle activation.

9.10 Zoran M. Arnež. Successful transfer of latissimus dorsi free flap after 18 hours of hypothermic storage.

BREAK

MUSCLE DISEASES (lectures)

Moderators: Blaž Rozman, Jože Trontelj

10.00 Theodoros Kyriakides (Nicosia, Cyprus). Dystrophinopathies on Cyprus.

10.20 Dušan Sket, Alenka Dekleva, Ivana Vreča, Dušanka Cuček, Miroslav Brzin. Mechanisms of myopathy following acute organophosphate exposure.

10.35 Zoran Grubič, Martina Brank, Radovan Komel. Experimental glucocorticoid myopathy.

10.50 Vladimir Jevtić. Presentation of neuromuscular diseases with computed tomography.

11.05 Anton Zupan, Dušan Šuput, Robert Frangež, Ana Sepe, Franci Demšar. Employment of magnetic resonance imaging in diagnostics of neuromuscular diseases.

11.20 Tanja Perkovič, Alenka Vizjak. Morphologic and immunofluorescent changes in muscles connected with autoimmune diseases.

11.35 Mija Meznarič-Petruša, Ida Eržen, Janez Zidar. Dystrophin analysis significance for diagnostics of neuromuscular diseases.

11.50 Zoran Rodi, Tomaž Zgur, Janez Zidar. Sensitivity of quantitative electromyography in diagnosis of myopathy.

12.05 Blaž Rozman, Tanja Kveder, Mojca Kos-Golja. Autoantibodies in systemic myositis.

12.20 Borut Peterlin, Janez Zidar, Mija Meznarič-Petruša, Neža Zupančič. Impact of molecular genetics on neuromuscular diseases.

12.35 Martin Štefančič. Myofascial pain.

12.50 Janez Zidar, Mija Meznarič-Petruša, Alenka Dekleva. Mitochondrial cytopathies. Study of patients with external ophthalmoparesis.

13.05 Tomaž Rott. Rhabdomyolysis with acute renal failure following alcoholic delirium.

Open doors at the Institute of Anatomy