

Slovak Society of Histo- and Cytochemistry
Pavol Jozef Šafárik University in Košice, Faculty of Medicine



Lojda symposium on
**PROGRESS IN BASIC, APPLIED AND
DIAGNOSTIC HISTOCHEMISTRY**



PROGRAMME
and
ABSTRACTS

June 28. – July 1, 2004
Košice

Organizing Committee

Honorary President: Prof. MVDr. Mikuláš Pomfý, CSc.
General Secretary: Prof. MUIDr. Darina Kluchová, CSc.

Members: Prof. MVDr. Milan Mareta, DrSc.
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MVDr. Mária Miklošová, PhD.
MVDr. Květuše Lovássová, PhD.
MUDr. Adriana Molčáková
Mária Orgonášová

*D*ear colleagues,

Symposium "Progress in Basic, Applied and Diagnostic Histochemistry" in the year 2004 is dedicated to the memory of Prof. MUDr. Zdeněk Lojda, DrSc. distinguished professor and research scientist, who died unexpectedly on April 24th, 2004. His excellence in the field of histochemistry predestinated him to become a founder of the Czech and Slovak histochemical and immunocytochemical research. Prof. Lojda was not only an outstanding scientist but an outstanding man and friend. He often supported and offered his help to other colleagues, wishing them progress in their professional work.

Prof. Lojda was in the center of the organisation of our first symposium. We believe it is appropriate to give his name to this symposium as a mark of our respect and thanks to the exceptional person and colleague and to keep it for the future as:

„Lojda Symposium on Progress in Basic, Applied and Diagnostic Histochemistry“

With respect,

Darina Kluchová

PROGRAMME

Lojda Symposium on Progress in Basic, Diagnostic and Applied Histochemistry

Monday, June 28

13:00 – 18:00 Registration

17:00 – 17:30 Opening Ceremony

17:30 – 18:30 **PLENARY LECTURES**

Chair: Schmidtová K.

17:30 – 17:50 **Pomfy M.** (Košice)
The morphologic school in Košice

17:50 – 18:10 **Grim M.** (Praha)
Neural crest cells in the hair follicle

18:10 – 18:30 **Maršala M.** (San Diego, USA)
Survival of spinal hNT neuronal and neuronal precursor implants: Effects upon function in rats with spastic paraplegia following spinal ischemia

18:30 – 20:00 Welcome Party

Tuesday, June 29

ORAL PRESENTATIONS, Part I.

Chairs: Tribulová N., Mokřý, J., Martinek J.

09:00 – 09:20 **Maršala J.** (Košice)
Immunohistochemistry and histochemistry of the primary sensory afferentation

09:20 – 09:45 **Dupont E.** (London)
Gap Junction remodeling in heart failure

09:45 – 10:00 **Mokřý J., Čížková D., Ehrmann J., Kolář Z., Osterreicher J., Filip S.** (Hradec Králově)
Expression of nestin in the myocardium

10:00 – 10:15 **Tribulová N., Seki S., Manoach M., Mochizuki S.** (Bratislava)
Cytosolic Ca^{2+} changes and cardiac arrhythmias

10:00 – 10:30 Coffee Break

ORAL PRESENTATIONS, Part II.

Chairs: Dubový P., Mareta M., Kluchová D.

- Dubový P., Klusáková I., Jančálek R. (Brno)**
10:45 – 11:00 *A mosaic immunostaining for laminin-I in the dorsal root ganglia following constriction nerve injury: Simultaneous staining with concanavalin-A, dystroglycan and MMP-3*
- Mazurová Y., Rudolf E., Látr I., Cerman J., Osterreicher J. (Hradec Králové)**
11:00 – 11:15 *Proliferation and differentiation of neural stem cells in the subependymal layer in relation to the neurodegenerative process of the striatum*
- Martínek J., Kučera T., Jirsová Z., Mlčochová H., Hořejší J. (Praha)**
11:15 – 11:30 *Altered oogenesis in the human ovary*
- Zemanová Z., Vagnerová R.**
11:30 – 11:45 *Prenatal expression of selected molecules related to the functional Differentiation of rat colon*
- Zemanová Z., Jirsová Z. (Praha)**
11:45 – 12:00 *Effect of trypan blue on development of embryonic nephrons*
- 12:00 – 13:00 **Lunch**
- 13:00 – 13:30 **SHCS Committee Assembly**

POSTER PRESENTATIONS

- 11:00 – 12:00 *Chairs: Tribulová N., Dubový P., Kluchová D.*
- Dubový P., Klusáková I., Jančálek R. (Brno)**
P 1 *Quantitative evaluation of ATF3 expression in the dorsal root ganglia following various types of axonal injury*
- Kluchová D., Molčáková A. (Košice)**
P 2 *Differences in the NADPH-d and NOS staining of spinal cord neurons*
- Kuchárová K., Kolesár D., Maršala J. (Košice)**
P 3 *NADPH-diaphorase-exhibiting neurons in the rat trigeminal nucleus*
- Kuchárová K., Radoňák J., Lukáčová N., Pavel J., Silvášiová M., Kolesár D., Maršala J. (Košice)**
P 4 *Respons of NADPH-diaphorase and NOS-exhibiting neurons in the ventral horn of the rabbit lumbosacral spinal cord to transient abdominal aorta occlusion*
- Jergová S., Čížková D. (Košice)**
P 5 *The effect of long-term inhibition of nitric oxide synthase in naive and neuropathic rats*
- Saganová K., Maršala J., Ondřejčák T., Urdziková L., Gálik J., Vanický I. (Košice)**
P 6 *Morphological characteristics of lectin labeled microglial cells in the rat ischemic spinal cord*
- Martončíková M., Račeková E., Orendáčová J., Mitrušková B. (Košice)**
P 7 *Quantitative analysis of proliferating cells in the rat rostral migratory stream during first postnatal month*

- P 8** **Poušová B., Orendáčová J., Račeková E.** (Košice)
Fluoro Jade-B use as a marker for degeneration in disrupted rostral migratory pathway
- P 9** **Karbanová J.** (Hradec Králové)
Neural stem cells cultured in vitro as neurospheres are heterogenous population with different cells properties
- P 10** **Vidinský B., Gál P., Lakyová L., Toporcer T., Špaková T., Rybár D., Kilič R., Sabo J., Longauer F.** (Košice)
Histomorphological study of the rat skin wound healing
- P 11** **Kočišová M., Schmidtová K., Škardová I.** (Košice)
Innervation of the bursa cloacalis in quails after influence
- P 12** **Schmidtová K., Dorko F., Maraček I.** (Košice)
Presence of the NADPH-diaphorase activity in the rat spleen
- P 13** **Dorko F., Danko J., Mihalik J.** (Košice)
The thymus innervation after chemical castration histochemical study
- P 14** **Siroťáková M., Danko J., Maraček I.** (Košice)
Adrenergic innervation of the epididymis in the rats
- P 15** **Kopecky M., Semecky V., Nachtigal P.** (Hradec Králové)
Vimentin expression in rat testes during altered spermatogenesis
- P 16** **Pácová H., Kučera T., Astl J., Martinek J.** (Praha)
Detection of defensins and NOS in human nasal mucosa
- P 17** **Jirsová Z., Zemanová Z.** (Praha)
Functional differentiation of the proximal tubule epithelium in the chick mesonephros under experimental conditions
- P 18** **Okruhlicová L., Tribulová N., Matušková J., Krajčovičová K., Šimko F.** (Bratislava)
Effect of cardioprotective drugs on the normotensive rat hearts
- P 19** **Haviarová Z., Weismann P., Okruhlicová L., Tribulová N., Sotniková R., Ujházy E.** (Bratislava)
Elastin concentration comparison in the rat aorta after peroral administration of phenytoin and E vitamin
- P 20** **Ottova T., Okruhlicová L., Tribulová N.** (Bratislava)
Histochemistry of the hyperthyroid rat kidney
- P 21** **Javorková V., Maczališová A., Vrbjar N., Pechanová O., Tribulová N.** (Bratislava)
Histochemistry of Kidney from rats with NO-deficient hypertension induced by L-name
- P 22** **Javorková V., Weismann P., Tribulová N., Pechanová O., Vrbjar N.** (Bratislava)
Nitric oxide-deficient hypertension-related NA,K-atpase changes in rat kidney. Comparative biochemical and histochemical study

- P 23 **Abazovičová M., Babinčáková Z., Maczaliová A., Okruhlicová L., Tribulová N., Pavlíková D., Lamošová D., Rajman M., Sedláčková M., Košťál L.** (Bratislava)
Effects of chronic food restriction on aorta of broiler breeder hens
- P 24 **Babinčáková Z., Abazovičová M., Tribulová N., Okruhlicová L., Lamošová D., Sedláčková M., Rajman M., Košťál L.** (Bratislava)
Heart histochemistry of the broiler breeder hens subjected to the different feeding treatments
- P 25 **Čížková D., Mokry J., Mičuda S., Osterreicher J., Karbanová J., Martinková J.** (Hradec Králové)
Antigenic profile of human hepatocytes in situ and WRL 68 cells in vitro
- P 26 **Vagnerová R., Kučera T.** (Praha)
Prenatal changes of rat colic mucous membrane and its epithelium
- P 27 **Chovanec M., Plzák J., Betka J., Smetana K. Jr., Plzáková Z., Gabius H. J.** (Praha)
Modulation of glycan structure in squamous epithelia and malignancy: A key to regulate protein-carbohydrate recognition in situ
- P 28 **Račková E., Martončíková M., Orendáčová J.** (Košice)
Age-related changes of the nitrergic cells in the rat rostral migratory stream
- P 29 **Krejčířová L., Lauschová I., Horký D., Doubek M., Mayer J., Doubek J.**
Changes of nephron of laboratory rat after administration of amphotericin B colloidal dispersion and conventional amphotericin B deoxycholate – morphology and morphometry study
- P 30 **Tribulová N., Okruhlicová L., Dzurba A., Vaja V., Klimas J., Krenek P., Kyselovic J.**
Effects of lacidipine and enalapril on ultra-structure of spontaneously hypertensive rat hearts

15:00 – 15:30 SHCS Plenary Meeting

17:00 – 18:30 Sightseeing – Rakoczi tomb

19:00 – 20:00 Elisabeth's Cathedral (Dóm Sv. Alžbety): Organ's concert

Wednesday, June 30

ORAL PRESENTATIONS, Part I.

Chairs: Soukup T., Longauer F., Jirkovská M.

- 09:00 – 09:15 **Vadászová A., Zachařová G., Hudecová S., Křížanová O., Tribulová N., Soukup T.** (Bratislava)
Expression of myofibrillar, Ca-transporting and gap junctional proteins in rats with altered thyroid status
- 09:15 – 09:30 **Kučera T., Canová N.** (Praha)
Immunohistochemical markers of apoptosis in primary rat hepatocytes

- Nachtigal P., Semecký V., Kopecký M., Solichová D., Ždánský P.** (Hradec Králové)
09:30 – 09:45 *The effect of simvastatin treatment on the expression of cell adhesion molecules in large vessel wall in experimental models of atherosclerosis*
- Jirkovská M., Šmíd F., Kučera T., Šmídová J., Mareček Z.** (Praha)
09:45 – 10:00 *Localization of GM1 ganglioside in cholestatic rat liver*
- Lukáš Z., Maňák J., Bednařík J.** (Brno)
10:00 – 10:15 *Regeneration of muscle fibres in neurogenic and myogenic muscle disorders of critically ill patients*
- 10:15 – 10:45 **Coffee Break**

Thursday, July 1

ORAL PRESENTATIONS, Part II.

Chairs: Smetana K., Klobušická M., Plzák J.

- Smetana K., Klamová H., Čermák J., Hrkal Z., Jirásková I., Stöckbauer P.** (Praha)
10:45 – 11:00 *To the structure, cytochemistry of nucleoli and nuclei in precursors of human blood cells*
- Smetana K. Jr., Plzáková Z., Plzák J., Chovanec M., Štork J., Dvořánková B., Gabius H. J.** (Praha)
11:00 – 11:15 *Galectins-1- and 3 reactive epitopes expression in cell biology of squamous epithelia*
- Plzák J., Betka J., Chjovanec M., Smetana K. Jr., Kodet R., Gabius H. J.** (Praha)
11:15 – 11:30 *Galectin-3-binding sites expression as prognostic marker of head and neck squamous cell carcinoma*
- Bobrov N., Rybárová S., Longauer F.** (Košice)
11:30 – 11:45 *Immunohistochemical study of LRP protein in human lung alveolar macrophages at fatal carbon monoxide poisoning*
- Klobušická M., Kusenda J.** (Bratislava)
11:45- 12:00 *Myeloid enzymes expression in relation to the immunophenotypic characteristics of acute myeloid leukemia*
- 12:00 – 13:00 **Lunch**
- 14:00 – 22:00 **Trip to the Tokaj area (wine museum in Trebišov, Castle of lord Majlatha in Pribenik – Farewell Party)**