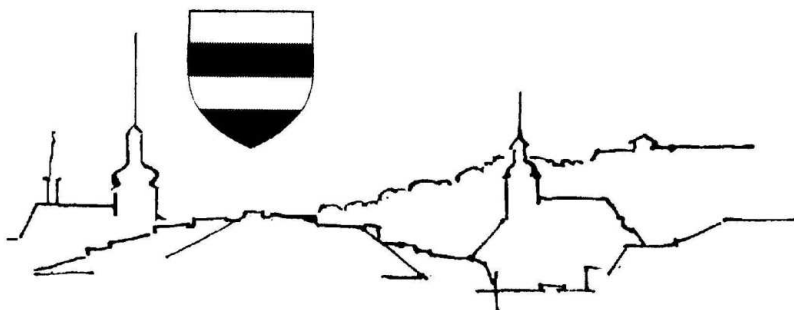


Faculty of Medicine - Masaryk University Brno  
Czech Society of Histochemistry and Cytochemistry  
Health Care Educational Institute Brno



**PROGRESS IN BASIC, APPLIED AND DIAGNOSTIC  
HISTOCHEMISTRY**

The 37th Symposium with International Participation

**PROGRAMME**  
and  
**ABSTRACTS**

Brno - Czech Republic  
December 1-2, 2000

## **HONORARY PRESIDIUUM**

**Prof. MUDr. Dr. med. h.c. Zdeněk Lojda, DrSc.**

Chairman of Czech Society of Histochemistry and Cytochemistry

**Prof. MUDr. Jiří Vorlíček, CSc.**

Dean of the Faculty of Medicine, Masaryk University, Brno

**MUDr. Petr Svačina**

Director of the Health Care Educational Institute, Brno

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**Members:** Prof. MUDr. et RNDr. Svatopluk Čech, DrSc.  
Prof. MUDr. Martina Kukletová, CSc.  
Prof. MUDr. Zdeněk Lukáš, CSc.  
MUDr. Ivana Svíženská, CSc.

## SCIENTIFIC PROGRAMME

**FRIDAY, December 1, 2000**

**13.00-14.00 OPENING CEREMONY AND INTRODUCTORY LECTURES** (Chairman Prof. P. Dubový)

1. *Gossrau R., Feussner M., Richter H., Miethke A., Baum O., Planitzer G., Koesling D.* In skeletal muscle fibers the NO/CO-sGC/cGMP-PKG signaling pathways are concentrated in the sarcolemma region.
2. *Slezák J., Buchwalow V., Schulze W.* Immunolocalization and the role of NO/NOS in cardiovascular system.

**14.10-15.10 LECTURES** (Chairmen Prof. J. Slezák, Doc. K. Smetana)

3. *Tribulová N., Seki S., Manoach M., Takeda S., Mochizuki S.* Increased myocardial Ca<sup>2+</sup> levels in various pathophysiological conditions are accompanied by impairment of intermyocyte junctions.
4. *Kholová I, Ludvíková M, Ryška A, Čáp J.* Assessment of dipeptidyl aminopeptidase IV in thyroid aspirates and imprint smears.
5. *Soukup T., Zachařová G., Ladecký R., Jirmanová I., Smerdu V., Eržen I.* Differentiation of muscle fibre types in rats with experimentally altered thyroid status.
6. *Smetana K., Jr., Plzák J., Holíková Z., Dvořánková B., Gabius H.-J.* Galectin-3-binding sites in squamous epithelia.

**15.10-15.30 Coffee Break**

**15.30-16.30 LECTURES** (Chairmen Prof. M. Lakomy, Prof. S. Čech)

7. *Čech S.* The mammalian cornea and its glycogen content.
8. *Dubový P., Svíženská I., Klusáková I., Ghalib N.* Immunohistochemical and immunogold analysis of laminins in the peripheral nerve structures.
9. *Mazurová Y., Valoušková V., Kittlerová P.* Reaction of the subventricular zone cells to the neurotoxic lesion and neural graft within the striatum of adult rats - preliminary study.
10. *Kaleczyc J., Lakomy M.* Retrograde axonal transport in studies dealing with distribution and chemical coding of neurons supplying mammalian male and female reproductive organs.

**17.00 Dinner**

**19.00-22.00 Cocktail Party**

**SATURDAY, December 2, 2000**

**9.00-10.00 LECTURES** (Chairmen Prof. K. Smetana, Prof. M. Červinka)

11. *Smetana K., Jirásková I., Grebeňová D., Cajthamlová H., Čermák J., Hrkal Z.* Nucleoli and programmed cell death of blood cells.
12. *Procházková J., Pecúchová M., Maďarová J., Bouchal J.* The comparison of different detection and evaluation techniques of apoptosis in cell cultures.
13. *Grim M., Riedelbauchová L.* Pax-3 and HNK-1 in cells of branchial region of the chick.
14. *Hůlková H., Befekadu A., Ledvinová J., Koubek K., Elleder M.* Monoclonal anti-lactosylceramide antibody (CDw17) - comment on the specificity and suitability for *in situ* lipid immunohistochemical detection.

**10.00-11.00 LECTURES** (Chairmen Doc. M. Grim, Doc. J. Mokřý)

15. *Zemanová Z., Jirsová Z.* Development of membrane enzymes in the proximal tubule epithelium of the chick mesonephros.
16. *Maňáková E., Zemanová Z.* Proliferation of epithelium in the cystically dilated tubules of the chick mesonephros.
17. *Naňka O., Valášek P., Grim M.* The influence of hypoxia induced factors on angiogenesis and embryonic development in the quail.
18. *Valášek P., Naňka O., Grim M.* The influence of hypoxia on proliferation and apoptosis in quail embryos.

**11.00-12.00 ROUND-TABLE ABOUT FUTURE OF HISTO- AND IMMUNOHISTOCHEMISTRY IN CZECH REPUBLIC** Chairmen Prof. P. Dubový, Doc. J. Mokřý ("Trendy v histochemii na přelomu XX. a XI. století")

**12.00-13.00 Lunch**

**13.00-14.00 LECTURES** (Chairmen Prof. V. Lichnovský, Dr. M. Meznarič-Petruša)

19. *Mokřý J., Cerman J., Červinka M.* Histochemical methods for the detection of apoptosis.
20. *Červinka M., Cerman J., Mokřý J.* Correlation of immunocytochemical findings with dynamic cytology of Etoposide-induced cell death in the Hep2 cell line.
21. *Cerman J., Mokřý J., Červinka M., Mareková M., Čáp J., Náhlavský J., Němeček S.* Apoptosis in pituitary adenomas: Immunohistochemical detection of cytokeratin-18 and its caspase cleavage products.
22. *Meznarič-Petruša M., Župančič N., Zidar J., Angelini C.* Clinical and laboratory findings in the first few patients with calpainopathy from Slovenia.

**14.00-16.00 POSTERS**

1. *Erdšová B., Procházková J., Lichnovský V.* Comparing the Bcl-2 related proteins expression in human metanephric kidney.
2. *Havelka P., Lichnovský V., Procházková J., Erdšová B.* Proliferation, programmed cell death and their regulating genes during differentiation of human myocardium and gonads.
3. *Hermanová M., Kroupová I., Lukášová E., Lukáš Z., Kozubek S.* Detection of carriers of DMD/BMD by FISH.

4. *Hrdličková-Cela E., Smetana, Jr. K., Mělková Z., Filipec M., Liu F.-T., Gabius H.-J.* Galectin-3 and eye surface.
5. *Kholová I., Kohout P.* Histochemical profile in ulcerative jejunoileitis (A complication of celiac sprue?).
6. *Klobušická M., Babušíková O., Kusenda J.* Quantitative variability of AgNOR proteins in T-acute lymphoblastic leukemia cells at diagnosis: Possible prognostic relevance?
7. *Kluchová D., Rybárová S., Lovásová K., Schmidtová K., Dorko F.* Distribution of NADPH-d activity in the pheasant spinal cord compared with mammals.
8. *Kylarová D., Lichnovský V., Procházková J.* Apoptosis and its regulating genes Bcl-2, Bax and p53 in development of the small intestine.
9. *Lausuchová I., Čech S.* Topochemistry of glycogen in the mouse oviduct during sexual maturation and influence of ovarian steroids.
10. *Lukáš Z., Fajkusová L., Fajkus J., Hermanová M., Kroupová I.* Dystrophin mutations revealed by immunophenotyping and analysis of dystrophin mRNA.
11. *Máčiková I., Mráz P., Perželová A., Bížík I., Šteňo J.* Double labelling of GFAP and fibronectin in adult human brain tissue cultures.
12. *Marettová E., Mareta M., Váradý J.* Expression of the S-100 protein and acetylated tubulin in the thymus of the cat.
13. *Matalová E., Španová A., Kovářů F.* Apoptosis in pig leukocytes as a consequence of phagocytosis.
14. *Mokry J., Karbanová J.* Brain injury activates subependymal precursor cells.
15. *Naňka O., Peumans W. J., Els JM van Damme, Pfäller U., Halata Z., Schumacher U., Grim M.* Visualisation of chick and quail vascular endothelium using lectins.
16. *Nenužil R., Vojtěšek B.* Physiological level of p53 protein in normal human tissue as detected using tyramide amplification
17. *Perželová A., Mráz P., Máčiková I., Bížík I., Šteňo J.* Prolonged subcultivation induces GFAP expression in adult human brain tissue cultures.
18. *Pospíšilová E., Černochová D., Lichnovský V., Kylarová D.* Expression of GFAP in the developing nervous system of human embryos.
19. *Pürstl A., Helmreich M., Böck P.* Sensory nerve fibers and their effectors in the synovial membrane of joints and bursae.
20. *Rybárová S., Bateková M., Hodorová I., Kluchová D., Kočíšová M.* The drug resistance-related protein LRP detected by immunohistochemical staining method.
21. *Sedláčková M., Štátná J., Žáková J., Ventruba P.* Ultracytochemical detection of the hydrogen peroxide sources in inseminated human cumuli oophori.
22. *Stano J., Tribulová N., Mičieta K., Neubert K., Havránek E.* Presentation of  $\alpha$ -galactosidase activity secreted by plant cells.
23. *Svženská I., Klusáková I., Ghalib N., Dubový P.* Immunohistochemical differences in the ECM content alongside afferent and motor axons in relation to the position of the dorsal root ganglion.
24. *Štátná J., Čech S.* Influence of exogenous glucose on glycogen topochemistry in mouse blastocysts developed *in vitro*.
25. *Tatzer P., Egerbacher M.* Oestrogen receptors in the vesico-urethral junction of the bitch.
26. *Walter I., Handler H., Aurich C., Aurich J.* Diagnostic value of lectin histochemistry in grading endometrotic lesions in horse endometrial biopsies.
27. *Weismann P., Weismanová E., Kaušitz J., Švec J., Mráz P.* Image analysis in HPV diagnostic.

## 16.00 CLOSING CEREMONY