

**Slovak Society for Histochemistry and Cytochemistry
Department of Pathology, Medical School Comenius University
Institute for Heart Research, Slovak Academy of Sciences**



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

38th International Symposium

PROGRAM & ABSTRACTS

Hotel DRUŽBA
Bratislava, Slovakia
October 26-27, 2001

HONORARY PRESIDUM

Prof. MUDr. Zdeněk Lajtha, DStC.

President of the Czech Society for Histochemistry and Cytochemistry

Prof. MUDr. Ján Štefkó, DStC.

Vicepresident of the Slovak Academy of Sciences

Prof. MUDr. Milan Zavadil, DStC.

Head of the Department of Pathology, Comenius University

MUDr. Ján Štyk, CSc.

Director of the Institute for Heart Research, Slovak Academy of Sciences

ORGANIZING COMMITTEE

President: RNDr. Narcis Tibulová, CSc.

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Ing. Silavka Nováková

RNDr. Margita Klobučická, CSc.

MUDr. Andrea Černá

Lucia Marková

Gabriela Světláková

GENERAL INFORMATION

VENUE:

Congress Center "DRUŽBA", Botanická 25, 84214 Bratislava,
Hotel DRUŽBA, tel. 421-2-65421049

REGISTRATION DESK:

will be opened in "DRUŽBA" Congress Center, Room B,
on Thursday October 25th 2001 from 15:00-20:00, on Friday
October 26th 2001 from 8:00-15:00 and on Saturday October 27th
2001 from 8:00-12:00

PRESENTATION:

Introductory lectures - 20 min., lectures - 10 min., discussion - 5
min. Single or double slide projection (slides 5 x 3 cm), data
projection with computer, overhead projection, will be available.

Posters 1.3 m (length) x 1 m (height) will be displayed in the lobby
of the Congress Center in two sessions: session I on Friday
October 26th 2001 from 9:00-18:00, session II on Saturday
October 27th 2001 from 8:00-12:30.

LANGUAGE:

The official language of the symposium is English.

TRANSPORTATION:

- from the Main Railway Station (Hlavné Nádražie) by tram N° 1 or bus N°32 (you need a 30 min. ticket), get off at the stop „Družba“.
- from the Central Bus Station (Autobusové Nádražie – Nivy) by trolley bus N° 207 direction „Súľskova ul.“, get off at stop „Kollárovo nám.“ and switch to tram N° 1 direction „Karlova Ves“ and get off at the stop „Družba“.
- by car from Prague, take direction Wien and leave highway to „Karlova Ves“ before the bridge over Danube river, after 300 m DRUŽBA is on your left across the tram rails next to OMV gas station.
- by car from Vienna take direction Brno and leave highway right after passing the Danube river, take direction „Karlova Ves“, after 300 m DRUŽBA is on your left across the tram rails next to OMV gas station.

See map on the back side of the booklet!

8:30 ONCOLOGY

9:00 - 10:30
chairing J. Stezak, W. Schulze

HISTOCHEMICAL ANALYSIS OF BIOPSIES OF THE COLONIC MUCOSA OF PATIENTS WITH INFLAMMATORY DISEASES AND TUMORS

Loida Z., Dosedel J., Horankova E.

-Prague, Czech Republic

IMMUNOHISTOCHEMISTRY IN THE BIOPSY DIAGNOSIS OF B-CELL CONTRIBUTION TO THEIR PROGNOSTICALLY RELEVANT SUBTYPING?

Plank L., Szepc P.

-Linz, Slovakia

ARE NUCLEOLI PARTICIPATING IN PROGRAMMED CELL DEATH?

Smetana K., Hrstkova I., Hekal Z., Cernak J.

-Prague, Czech Republic

p53 AND Bcl-2 PROTEINS EXPRESSION IN ACUTE LEUKEMIA: AN IMMUNOCYTOCHEMICAL STUDY

Kobusicka M., Kusenda J., Babusikova O.

-Bratislava, Slovakia

CHANGES OF SALIVARY ACID EXPRESSION IN THYROID GLAND DISEASES

Babal P., Janega P.

-Bratislava, Slovakia

10:30 - 11:00 Coffee Break

11:00 - 12:45 CARDIOVASCULAR SYSTEM

chairing Z. Loida, M. Kobusicka

EVIDENCE OF AUTOANTIBODIES AGAINST THE ATI RECEPTOR IN RAT AND PATIENTS WITH MALIGNANT HYPERTENSION DEMONSTRATED BY IMMUNOCYTOCHEMISTRY

Sanzue W., Fu MLX*, Wellisch G.

-Berlin, Germany / Göttingen, New York

FUNCTIONAL TOPOLOGY OF NITRIC OXIDE SYNTHASES

Buehlerow IB, Sacklows V.E., Lechtal M.

-Münster, Germany

THE ROLE OF NO IN ADAPTATION OF THE MYOCARDIUM TO ISCHEMIA

Slezak J., Buchanova I., Slov J., Trnbova N., Okruhlikova L., Stezka O.

-Bratislava, Slovakia

IMMUNOLABELLING ON ULTRATHIN CRYSECTIONS IN THE STUDY OF SUBCELLULAR LOCALIZATION OF S100A1 IN RAT HEART

Brezova A., Uhrk B., Hezmann C.W.

*-Bratislava, Slovakia*ANTICARDIAC CONNEXIN-43 AND Ca^{2+} CHANGES INVOLVED IN THE OCCURRENCE OF FATAL ARRHYTHMIAS

Trnbova N., Okruhlikova L., Novakova S., Imamura I., Sedl S., Marasch M.

*-Bratislava, Slovakia**-Fukuoka, Tokyo, Japan**-Tel Aviv, Israel*

ADAPTATION OF ENERGY TRANSFER TO ENERGY DEMANDS IN DIABETIC HEART: ROLE OF THE MITOCHONDRIAL CONTACT SITES

Ziegelhofer-Mihalovova B., Ravingerova T., Nedař J., Slov J., Trnbova N., Ziegelhofer A.

-Bratislava, Slovakia

BONE MATRIX PROTEINS ARE INVOLVED IN CYSTORHIC CALCIFICATION OF HUMAN HEART VALVES

Bock P., Helmreich M., Grabenwoger M.

-Vienna, Austria

13:00 - 14:00 Lunch

14:00 - 15:30 NERVE SYSTEM, MUSCLE

chairing K. Smetana, M. Svecera

COMPUTER-ASSISTED QUANTITATIVE IMMUNOHISTOCHEMISTRY OF THE EXTRACELLULAR MATRIX IN THE DORSAL AND VENTRAL SPINAL ROOTS WITH THE USE OF ALICHA SOFTWARE

Dubovy P., Svazenski I., Kasalova I.

-Brno, Czech Republic

DISTRIBUTION AND IMMUNOHISTOCHEMICAL CHARACTERISTICS OF CAUDAL MENINGEAL CANALION NERONS PROTECTING TO THE CONSCIOUSNESS

Kaleczy J., Franke-Radoswicka A., Kimeczuk M., Pilsudko Z., Stankiewicz W.

-Olsztyn, Poland

NADPH-DIAPHORASE ACTIVITY IN THE SPINAL CORD AFTER ISCHEMIC INJURY AND GINKGO BILLOBA EXTRACT (EGb 761) PRETREATMENT

Meehrova E., Demarkova I., Burda J.

-Kofce, Slovakia

SUBVENTRICULAR LAYER REACTS TO THE NEUROTOXIC LESION BY ONLY A MILD INCREASE OF PROLIFERATIVE ACTIVITY IN LONGER SURVIVING RATS

Mazurova Y., Volokouk V.

-Prague, Czech Republic

EXTRAFUSAL AND INTRAFUSAL FIBRE TYPES IN RATS WITH ALTERED THYROID STATUS

Soukup T., Zechalova G., Smetna V., Ludecky R., Mital K., Jirmanova I.

*-Prague, Czech Republic**-Juchynow, Slovenia*

15:30 - 16:00 Coffee Break

16:00 - 18:00 Poster session I

chairing P. Dubovy, J. Marasch

1. STRONAL DIFFERENTIATIONS IN CANINE MIXED MAMMARY GLAND TUMORS

Eisenhofer M., Helmreich M., Vidoni B.

-Vienna, Austria

2. MOLECULAR BIOLOGY IN DIFFERENTIAL DIAGNOSIS OF DESTINATIONAL TROPHOBLASTIC DISEASE

- Danihel I., Repiska V., Vojtásek J., Korbel M., Bohner D., Gomořík P., Bahál P. *-Bratislava, Slovakia*
3. Bcl-2 EXPRESSION IN TROPHOBLASTIC CELLS DURING PREGNANCY
Danihel I., Gomořík P. M., Korbel P., Palorovic M., Pondický J., Vojtásek J., Repiska V., Bahál P. *-Bratislava, Slovakia*
4. INTRAMAMMARY CHLOROCARCINOMA - A VERY RARE FORM OF GESTATIONAL TROPHOBLASTIC DISEASE
Danihel I., Hanel S., Binner P., Breitenreiter G., Korbel M., Vojtásek J., Repiska V., Palorovic M. *-Bratislava, Slovakia*
5. COMPARATIVE STUDY OF COLLAGEN TYPE IV AND FIBRONECTIN IN EPITHELIAL TUMORS OF COLON
Galusky S., Lukac L., Pondický J., Černá M., Labuda M., Kemrová J., Papičík I., Bahál P., Jeleňovský J. *-Bratislava, Slovakia*
6. IMMUNOHISTOPHENOTYPING OF EXTRAGASTROINTESTINAL STROMAL TUMORS. REPORT OF TWO BIOPSY CASES
Ondřejovité P., Plank L., Szépe P., Kajo K., Slavík P., Beseda A. *-Košice, Slovakia*
7. GERM-LINE MUTATIONS OF THE BRCA1 GENE IN PEDIGREE BREAST AND BREAST/OVARIAN CANCER
Weismann P., Weismannová E., Vezváryová M. *-Bratislava, Slovakia*
8. AVERAGE VESSEL WALL THICKNESS MEASURING
Weismann P., Havrdová Z., Kopanič M., Jeleňovský J., Beniška J., Mraz P. *-Bratislava, Slovakia*
9. EFFECT OF L-ARGININE ON DIABETIC RAT HEART. HISTOCHEMICAL AND ULTRASTRUCTURAL STUDY
Okruhličková E., Šomloková R., Štefák M., Trhulová N., Nováková S., Gajdošík A. *-Bratislava, Slovakia*
10. PRESENCE OF MAST CELL INFILTRATION IN VARIOUS VEIN WALL
Havrdová Z., Weismann P., Pavlíková D., Durčák Š., Korčík P., Švorcová V., Mraz P. *-Bratislava, Slovakia*
11. HISTOCHEMISTRY OF HYPERTENSIVE RAT HEART IS NOT AFFECTED BY PROPYNOLOL TREATMENT
Kučka M., Mészárosová A., Okruhličková L., Trhulová N., Baranová I., Pecháňová O. *-Bratislava, Slovakia*
12. PROLIFERATIVE RESPONSE OF VASCULAR SMOOTH MUSCLE CELLS AFTER NO-SYNTASE INHIBITION
Bahál P., Pecháňová O., Bernarová I., Švirina S. *-Bratislava, Slovakia*
13. HISTOCHEMICAL AND CONSENSUS IMMUNOHISTOCHEMICAL CHANGES PRECEDE HYPOKALEMIA-INDUCED VENTRICULAR FIBRILLATION IN NORMAL AND DIABETIC RAT HEARTS
Míšeková M., Nováková S., Okruhličková L., Trhulová N. *-Bratislava, Slovakia*
14. MORPHOLOGICAL SUBSTRATE FOR ARRHYTHMIAS PILOT STUDY
Nováková S., Trhulová N., Mészárosová A., Sás S., Thomas S., Gerzličová N., Podzavertl T., Marsoch M. *-Bratislava, Slovakia*

-Bratislava, Slovakia Bad Nauheim, Germany Tel Aviv, Israel

15. EFFECT OF DILTIAZEM ON BLOOD GLUCOSE LEVEL AND HEPATIC GLYCOGEN IN RATS WITH EXPERIMENTAL ATHEROSCLEROSIS
Lazrová Z., Turecký I., Urbšková E. *-Bratislava, Slovakia*
16. ENZYME HISTOCHEMISTRY OF WARM ISCHEMIA IN PORCINE LIVER
Viečan M., Galusky S., Güller L., Hanušák S., Laca T., Ojstrik J., Belekák J., Broč Cs., Dannerer F., Hrobový S., Hruščevský A., Kuba D., Zajíčková, M. *-Bratislava, Slovakia*
17. DEVELOPMENTAL AND FUNCTIONAL CHANGES OF H₂K-ATPASE EXPRESSION IN THE RAT COLON
Vágenová R., Zemková Z., Pačha J., Šimulová J. *-Prague, Czech Republic*
18. T LYMPHOCYTE SUBPOPULATIONS AND BU1B POSITIVE CELLS IN THE CAECUM AND OF CHICKS INFECTED WITH *Salmonella enteritidis*
Aňhag A. A., Lešut M., Revajová Z., Ševčíková L., Kolodřízská J., Píed J. *-Košice, Slovakia*
19. EXPRESSION OF SIALIC ACID IN THE LUNG DURING INTRALUTERINE DEVELOPMENT OF THE HUMAN FETUS
Černá A., Janová P., Maronovic P., Bahál P. *-Bratislava, Slovakia*
20. LECTIN BINDING PATTERNS IN THE CANINE ENDOMETRIUM
Lefner M., Walter I., Auerch Ch., Auerch J. *-Vienna, Austria*
21. THE EFFECTS OF ISCHEMIC PRECONDITIONING ON THE LECTIN-STAINED MICROGLIAL CELLS
Sagunova K., Vankovs I., Barada J., Nemlova M. *-Košice, Slovakia*
22. THE PYRIDINOYLE ANTIOXIDANT STROBILIN ATTENUATES KIDNEY HISTOCHEMICAL CHANGES IN STREPTOZOTOCIN-INDUCED DIABETIC RATS
Štefák M., Trhulová N., Gajdošík A. *-Bratislava, Slovakia*
23. HISTOCHEMICAL AND IMMUNOHISTOCHEMICAL STUDIES ON XANTHINE OXIDOREDUCTASE AND XANTHINE OXIDASE IN CORNEAS OF VARIOUS ANIMALS
Ardan T., Kováčiková-Andonová J., Čiglová J. *-Prague, Czech Republic*

19-00 - 22-00

Banquet

Bad "FAIRWAY"

Saturday, October 27th, 2001

8:30 - 10:30 VARIA

Chairing: L. Frank, T. Soukup

ADVANCED MULTIPLE IMMUNOLABELING

Buchonová I.B. *-Kloster, Germany*

IS THE PRESENCE OF LIGNIN THE CAUSE OF STAINABILITY OF

SCLERENCHYMATIC TISSUE WITH SAFRANIN?

Beneš K., Bělohá D. *-Čadež Biologična, Czech Republic*

THE SCREENING OF SOME THERAPEUTICALLY VALUABLE COMPOUNDS IN

PLANT ORIGIN

Štano J., Měřiená K., Kováč P., Neubert K., Tinemann H., Kocská P.

-Praha, Czech Republic

HISTOCHEMICAL REPRESENTATION OF THE FUNCTIONAL STRUCTURE

OF NORMAL AND CYSTICALLY DILATED PROXIMAL TUBULES IN THE

CHICK MESONEPHROS

Zemanová Z., Jirsová Z., Murphy M.J.

-Prague, Czech Republic, New York, USA

DETECTION OF CD68+ CELLS IN CONNEXION WITH THE OCCURRENCE OF

APOPTOSIS IN THE DEVELOPING KIDNEY OF HUMAN EMBRYOS

Endreyová B., Hlaváková L., Procházková J. *-Olomouc, Czech Republic*

A CYTOCHEMICAL STUDY OF THE NUCLEAR CHANGES IN FOWL

SPERMATIDS

Mareš M., Marešová E., Čaurená J.L. *-Košice, Slovakia, Nováky, France*

CYTOLOGICAL CHANGES OF ALTERED SPERMATOGENESIS IN RAT

HYPODACTYLOUS MUTATION

Jirsová Z., Martinec J., Libša F., Křiváková D., Křen V.

-Prague, Czech Republic

FUNCTIONAL CYTOLOGY OF EXPLANTED THYROID GLAND IN THE HONT

SEED MOUSE

Martinec J., Šterzl I., Raňová K., Šterzl J. *-Prague, Czech Republic*

CELL TRANSPLANTATION: METHODS FOR IDENTIFICATION OF GRAFTED

CELLS

Mokry J., Kahanová J. *-Košice, Kladno, Czech Republic*

11:00 - 12:30 **Poster session II**

Chairing: L. Daněš, K. Benas

1. AUTOFLUORESCENCE OF HEMATOXYLIN AND EOSIN STAINED

HISTOLOGICAL SECTIONS

Jaburowský J., Güller L., Černá M., Balážová K., Polák Š., Babal P.

-Bratislava, Slovakia

2. COMPARISON OF METHODS TUNEL, M30 AND ANNEXIN V BY FLOW

CYTOMETRY

Kyřanová D., Procházková J., Mařanová J., Baroš J.

-Olomouc, Czech Republic

3. IDENTIFICATION OF GROWING CELLS IN ARTIFICIAL BIOMEMBRANES

BY IMMUNOHISTOCHEMISTRY

Daněš L., Vojtašák J., Bakos D., Bohner D., Daněšová L., Bisko M., Perlehan

D. *-Bratislava, Slovakia*

4. MYOPATHY-DEPENDENT CHANGES OF ENZYME ACTIVITIES AND NOS-

EXPRESSION IN THE DIFFERENT FIBRE TYPES OF HAMSTER MUSCLES

Punkl K., Zaissev S., Wellner M., Schreiner T., Buchwalter B.

-Kloster, Germany

5. SONNITE ORIGIN OF CHICK STRATED CLOACAL MUSCLES AND GENES

CONTROLLING MIGRATION OF ITS PRECURSORS

Valášek P., Čermá M.

-Prague, Czech Republic

6. FIBRE TYPE-RELATED NOS-EXPRESSION AND ENZYME ACTIVITIES IN

SOFT PALATE MUSCLES FROM CHILDREN WITH CLEFT PALATE

Koç, K. F., Dambauer, K. H., Hemprecht, A., Zaissev S., Amannseis G., Punkl, K.

-Leipzig, Germany

7. TOTIPOTENT CELLS MODEL OF CELLULAR DIFFERENTIATION

Karhunen J., Mokry J., Salmova D. *-Košice, Kladno, Czech Republic*

8. ENDOCRINE REGULATION OF ENDOMETRIAL DIFFERENTIATION IN THE

DOG - STUDIES ON THE PATHOGENESIS OF CANINE PYOMETRA IN VITRO

Gabrhová G.P., Walter I., Aurich Ch., Aurich J.

-Prague, Austria

9. THE DISTRIBUTION OF THE S-100 PROTEIN IN THE GOAT AND SHEEP

UTERINE TUBE

Martincová E., Mareš M., Danšo J., Kamenová T. *-Košice, Slovakia*

10. AN IMMUNOHISTOCHEMICAL DEMONSTRATION OF THE

INTERMEDIARY PHILLAGENTS IN A SHEEP'S OVARY

Šterová E., Mareš M.

-Košice, Slovakia

11. THE DISTRIBUTION OF C-FOS PROTEIN IN NEUROPATHIC RATS

Čížková D., Jirgova S., Čížek M.

-Košice, Slovakia

12. A HISTOCHEMICAL STUDY OF IRON DEPOSITION IN THE ISCHEMIC RAT

BRAIN

Danišiová V., Gantírek M., Neimeňová M., Burda J.

-Košice, Slovakia

13. RADIATION INDUCED ASTROCYTIC RESPONSE IN RAT CEREBELLUM

COMPARATIVE IMMUNOHISTOCHEMICAL STUDY

Domonková I., Měřienová E. *-Košice, Slovakia*

14. LOCALIZATION OF C-FOS PROTEIN IN THE RAT SPINAL CORD AFTER

CARRAGEENAN INJECTION

Jergová S., Čížková D. *-Košice, Slovakia*

15. CALCIUM OVERLOAD IN THE RABBIT SPINAL CORD

Kučinová D., Jále P. *-Košice, Slovakia*

16. NEURONAL NADPH-DIAPHORASE ACTIVITY OF THE PHEASANT *HASVA CLOACALIS*
Košicev M., Siroňáková M., Schmidová K., Dorok F.
-Košice, Slovakia
17. THE EXPRESSION OF C-FOS IN THE POSTISCHEMIC RAT BRAIN FRONTAL NEOCORTEX
Nemethová M., Danielisová V., Burda J.
-Košice, Slovakia
18. NESTIN AND NITRIC OXIDE DISTRIBUTION/COLocalIZATION IN ADULT FOREBRAIN SUBVENTRICULAR ZONE AFTER SPINAL CORD ISCHEMIA
Orendáková J., Račková E., Martončíková M., Galík J., Kluchová D.
-Košice, Slovakia
19. DISTRIBUTION OF PROLIFERATIVE CELLS AND NITRIC OXIDE AFTER OLFACATORY BULBECTOMY IN RAT
Ráčková E., Orendáková J., Martončíková M., Kluchová D.
-Košice, Slovakia
20. THE EARLY MICROGLIAL RESPONSE IN ISCHEMIC SPINAL CORD.
Saganová K., Marsala J., Omravníček T., Vanický I., Galík J.
-Košice, Slovakia
21. HISTOCHEMICAL LOCALIZATION OF NADPH-DIAPHORASE IN NEURONS OF THE PHEASANT TLEON
Schmidová K., Košíšová M., Kluchová D., Siroňáková M.
-Košice, Slovakia
22. ADRENERGIC AND ACETYLCHOLINESTERASE (AChE) POSITIVE INERVATION OF THE PALATINE TONSILS IN SOME MAMMALS.
Siroňáková M., Schmidová K., Košíšová M., Kuchta M.
-Košice, Slovakia
- 12:30 Closing ceremony
- 13:00 Lunch
- 14:30 – 17:00 Guided tour of the historical city center.