

SLOVAK SOCIETY FOR HISTOCHEMISTRY AND
CYTOCHEMISTRY

INTERNATIONAL SYMPOSIUM

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



SMOLENICE CASTLE
BRATISLAVA, SLOVAK REPUBLIC
NOVEMBER 5-8, 1995

PROGRAM

INSTITUTE FOR HEART RESEARCH, SLOVAK ACADEMY OF SCIENCES,
BRATISLAVA, SLOVAK REPUBLIC

Under the Auspices of International Federation of Societies for Histochemistry and
Cytochemistry

THE ORGANIZING INSTITUTIONS

INSTITUTE FOR HEART RESEARCH
Slovak Academy of Sciences, Bratislava, Slovak Republic

SLOVAK SOCIETY FOR HISTO- AND CYTOCHEMISTRY
Slovak Academy of Sciences, Bratislava, Slovak Republic

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Narcis TRIBULOVÁ, Institute for Heart Research, Slovak Academy of Sciences,
Dúbravská cesta 9, 842 33 Bratislava, Slovak Republic
Tel 00427 / 374 405 Fax 00427 / 376 637

Sunday, November 5, 1995

15 00-23 00 Arrival and Registration
19 00 Welcome Reception

Monday, November 6, 1995

8 30 Opening Ceremony

BASIC HISTOCHEMISTRY

Chairmen: G.Dhom, M.van der Ploeg

8 45 *G Dhom* (Hamburg, Germany)
Francois Vincent Raspail Founder of Histochemistry

9 00 *M van der Ploeg* (Leiden, Netherlands)
Looking at genes

9 15 *J Slavik* (Prague, Czech Republic)
Fluorescent probes in cellular and molecular biology

9 30 *T Muller* (Mainz, Germany)
Methylene blue supravital staining combined with NADPH -
diaphorase histochemistry in the rat cerebellum

9 45 *R Spessert, M Claasen, E Layes, L Vollrath* (Mainz, Germany)
In the rat olfactory bulb the addition of triton or pre-incubation of
the tissue in an acid buffer increase the specificity of NADPH-d
staining as a marker for nitric oxide synthase

10 00 *M Ghiesing, D Kalicharan, K.J Halbhuber* (Jena, Germany)
Demonstration of ouabain-sensitive, K⁺ dependent ATPase-activity
at light and electron microscopic level using a modified cerium-based
method

10 15-10 30 Coffee break

APPLIED HISTOCHEMISTRY - CARDIOVASCULAR SYSTEM AND MUSCLE

Chairmen: W.Schulze, J.Slezák

10 45 *W.Schulze, M.L.X.Fu, W.-P.Wolf* (Berlin, Germany, Goteborg,
Sweden)
Immunocytochemical localization of muscarinic, adrenergic and
AT1 receptors

- 11 00 *J.Slezák, W.Schulze, E.Okruhlicová, N.Tribulová* (Bratislava, Slovak Republic, Berlin, Germany)
Immunolocalization of the Na,K-ATPase $\alpha 1$, $\alpha 2$ and $\alpha 3$ subunit isoforms in working, conducting and tissue cultured, neonatal and adult rat myocytes
- 11 15 *E.Okruhlicová, N.Tribulová, J.Slezák* (Bratislava, Slovak Republic)
Subcellular localization of cAMP-synthetizing and degradating enzymes in the rat cardiomyocytes
- 11 30 *N.Tribulová, O Pecháňová, I.Bernátová* (Bratislava, Slovak Republic)
Histochemical picture of the rat heart after blockade of NO synthase
- 11 45 *A.Ziegelhoffer, T.Ravingerová, N.Tribulová, J.Styk, K.Volková, J.Šeboková, A.Džurba, A.Breier* (Bratislava, Slovak Republic)
Mechanisms participating in calcium-tolerance of the diabetic myocardium
- 12 00 *K.Punkt, A.Unger, K.Welt, L.Schafframetz* (Leipzig, Germany)
Cytophotometrical measurements of hypoxia-dependent changes of enzyme activities in the different fibre types of rat muscles
- 12 15 *T.Soukup, M.Novotová, L.-E.Thornell* (Prague, Czech Republic, Bratislava, Slovak Republic, Umea, Sweden)
Myogenesis in rat muscle spindles Do the intrafusal fibres develop from special cell lineage (s) ?
- 13 00-14 00 Lunch
- APPLIED HISTOCHEMISTRY - ONCOLOGY**
Chairmen: Z.Lojsa, M.Klobušická
- 14 00 *Z.Lojsa, J.Čapková, P.Frič, M.Zavoral* (Prague, Czech Republic)
Sucrase and other brush border enzymes in colorectal tumors
- 14 15 *M.Klobušická, O.Babušíková, A.Mesárošová* (Bratislava, Slovak Republic)
Relation of some enzyme activities and the argyrophilic proteins in childhood acute lymphoblastic leukemia
- 14 30 *V.S. Petrov, T.N.Raikhlín, N.N.Mazurenko* (Kazan, Moscow, Russia)
Immunohistochemistry of MYC, ETS2, RAS, P53 oncoproteins in cancer metastases

14 45 *A.G.Perevoschikov* (Moscow,Russia)
Mucous glycoproteins in large bowel neoplasms A comparison
between histochemical profiles of mucin secretion and disease
activity

15 00 *D E.Tsyplakov, S V.Petrov* (Kazan, Russia)
Immunohistochemical characteristic of the immune response in
regional lymph nodes associated with cancer

15 15 *K Smetana, H.Klámová, I Jirásková* (Prague, Czech Republic)
Nucleoli and nucleolar asynchrony in leukemic lymphoblasts

15 30-16 00 Coffee break

APPLIED HISTOCHEMISTRY - VARIA

Chairmen: P.A.Kiassov, Z.Zemanová

16 00 *P A Kiassov, P van Eyken, S.H P Yap* (Kazan, Russia, Leuven,
Belgium)
Gamma-glutamyl transpeptidase activity in megakaryocytes during
feta and neonatal rat liver development

16 15 *Z.Zemanova* (Prague, Czech Republic)
K⁺-NPPase activity pattern in developing kidneys of the chick and
rat

16 30 *E.Maňakova, Z.Zemanová* (Prague, Czech Republic)
Enzyme histochemistry of the chick extraembryonic membranes

16 45 *J.Šidlo, I. Kameništáková, M.Zaviačič, E. Bukovská, J. Jakubovský,
M.Sámel, M.Zajičková, K.Balažova* (Bratislava, Martin, Slovak
Republic)
Enzymes of brown adipose tissue Comparative experimental
biochemical and histochemical study

17 00 *J.Šidlo, M.Zaviačič, E.Bukovská, J.Jakubovský, M.Sámel,
M Zajičková, K Balažová* (Bratislava, Slovak Republic)
Some enzymic markers of brown adipose tissue

17 30-18 30 **POSTER SESSION 1 (1-13)**
Chairmen: K.Smetana, A.Ziegelhöffer

19 00 Banquet Dinner