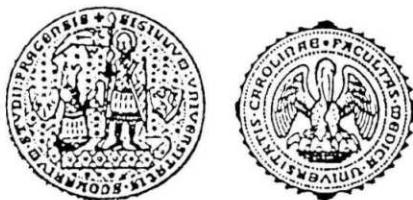


CZECH SOCIETY OF HISTOCHEMISTRY AND CYTOCHEMISTRY  
SYMPOSIUM WITH INTERNATIONAL PARTICIPATION

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



CONFERENCE HALL  
OF THE OFFICE OF THE DEAN BUILDING  
OF THE FIRST FACULTY OF MEDICINE  
OF CHARLES UNIVERSITY  
PRAGUE  
NOVEMBER 17 - 20 ,1996

ORGANIZED BY  
LABORATORY OF HISTOCHEMISTRY  
OF THE FIRST FACULTY OF MEDICINE  
OF CHARLES UNIVERSITY

UNDER THE AUSPICES OF  
HIS MAGNIFICENCY PROF. JUDR. KAREL MÁLY, DRSC.,  
RECTOR OF CHARLES UNIVERSITY  
and  
HIS SPECTABILITY DOCMUDR. PETR HÁČ, CSC.,  
DEAN OF THE FIRST FACULTY OF MEDICINE

**PROGRAM**

## SCIENTIFIC PROGRAM

Monday, November 18, 1996

9.00                   Opening ceremony

### INVITED LECTURES

Chairmen: G.Dhom , Z.Lojda

- 9.20                 *R. Gossrau and Z. Grozdanovic* (Berlin , Germany )  
The nitric oxide synthase (NOS) I /nitric oxide (NO) signaling pathway  
in skeletal muscle.
- 10.05                *W. Storch* (Heidelberg , Germany )  
Confocal laser-scanning fluorescence microscopy : New application in  
clinical immunology.
- 10.50 - 11.20      Coffee break

### CYTOCHEMISTRY OF THE MYOCARDIUM

Chairmen: J.Slezák , I.B.Buchwalow

- 11.20               *I. B. Buchwalow, W. Schulze, G. Wallukat, M. M.Kostic and E.-G. Krause* (Berlin, Germany, Kragujevac, Yugoslavia)  
Signal transduction pathway ( G-protein - adenylylcyclase - nitric  
oxide synthase ) leading to NO production by cardiomyocytes : An  
immunocytochemical approach.
- 11.35               *J. Slezák, W. Schulze, L'.Okruhlicová and N. Tribulová* (Bratislava,  
Slovak Republic, Berlin , Germany )  
Sub-microscopical localization of the Na,K-ATP-ase  $\alpha$ 1,  $\alpha$ 2 and  $\alpha$ 3  
subunit in tissue cultured, neonatal and adult rat myocytes.
- 11.50               *L'.Okruhlicová, N. Tribulová, C. Lugnier and J. Slezák* (Bratislava, Slo-  
vak Republic, Illkirch, France)  
Cytochemistry of cAMP-dependent phosphodiesterases in rat myocar-  
dium.
- 12.05               *N. Tribulová, L'. Okruhlicová, B. Ziegelhoffer-Mihaličová and J.Slezák*  
(Bratislava, Slovak Republic)  
Histochemical detection of adenosine producing sites in the heart.

- 12.20      *B. Ziegelhöffer-Mihaličová, L'. Okruhlicová, N. Tribulová, T. Ravinerová, J. Šeboková and A. Ziegelhöffer* (Bratislava, Slovak Republic)  
Detection of creatine phosphokinase activity in mitochondrial contact sites in normal and diabetic hearts. Effect of extracellular calcium.

12.35 - 2.00 p.m. Lunch

**CYTOCHEMISTRY OF THE NERVOUS SYSTEM**  
**CHAIRMEN : R. GOSSRAU , M. GRIM**

- 2.00      *J. Mokrý, D. Šubrtová and S. Němeček* (Hradec Králové , Czech Republic)  
Neural precursor cells in neurospheres can differentiate in the presence of EGF.
- 2.15      *Z. Syrová, M.R.Higgins, F.Sehnal and L.B. Tolber* ( České Budějovice,Czech Republic, Tuscon,Arizona,USA)  
Distribution of a lipocalin type regulatory neuropeptide in insect brain.
- 2.30      *P. Dubový, A. Oestlund and H. Aldskogius* (Brno, Czech Republic, Uppsala , Sweden )  
Usefulness of non-specific cholinesterase histochemistry for identification of Schwann cells in the PNS-CNS transitional zone of the rat spinal roots.
- 2.45      *M. Grim, J. Zelená, Z. Halata, G. Jeřábková and V. Szeder* (Praha, Czech Republic, Hamburg, Germany )  
Herbst corpuscles and muscle spindles in embryonic chick-quail chimeras.
- 3.00      *T. Soukup and M. Novotná* ( Praha , Czech Republic, Bratislava, Slovak Republic)  
Regeneration of muscle spindle. How predetermined or plastic are the intrafusal satellite cells?

**CYTOCHEMISTRY OF THE SMALL INTESTINE**  
**Chairpersons: H.Tlaskalová , W.Storch**

- 3.15      *Š. Mozeš , L', Lenhardt , S. Kuchár* ( Košice , Slovak Republic )  
Isolation of single cells for microdensitometric quantification of enzymatic activity .

- 3.30      *H. Kozáková, R. Štěpánková, Z. Řeháková and J. Kolínská* (Praha,  
Czech Republic )  
Brush-border disachardases, dipeptidyl peptidase IV and MHC class  
II antigens in the enterocytes of germ-free rats.
- 3.45      *Z. Lojda, J. Šmídová, R. Kotalová and J. Nevoral* (Praha, Czech Repu-  
blic )  
Levels of endomysial antibodies in blood serum of patients with mal-  
absorption syndrome and their relation to findings in the jejunal mu-  
cosa.

Tuesday, November 19, 1996

**CYTOCHEMISTRY OF THE NUCLEUS**  
Chairmen : K.Smetana and I.Raška

- 9.00      *I. Sauman and S.J.Berry* (České Budějovice, Czech Republic,  
Middletown, CT. USA )  
Immunocytochemical demonstration of actin associated with euka-  
ryotic chromosomes.
- 9.15      *M. Eltsov and I. Raška* (Praha, Czech Republic)  
Detection of BEAF-32 protein by immunogld electron microscopy.
- 9.30      *K.Koberna, V.Landa, J.Kaňka, A.Pliss, I.Melčák, D.Staněk, M. Eltsov  
and K. Raška* ( Praha, Liběchov , Czech Republic )  
Non-isotopic detection of nucleolar transcription in prerreabilized  
mouse embryos.
- 9.45      *I. Melčák and I. Raška* ( Praha, Czech Republic )  
Structural organization of the pre-mRNA splicing commitment.  
A hypothesis.

**CYTOCHEMISTRY IN HEMATOLOGY**  
**CYTOCHEMISTRY OF MACROPHAGES**  
Chairpersons : M. Klobušická and K.Smetana

- 10.00     *K.Smetana, I. Jirásková, P.K. Chan and H. Busch* (Praha , Czech Re-  
public, Houston, Texas, USA )  
The nucleolar coefficient and nucleolar cytochemistry in human blood  
monocytes.

- 10.15      *M. Klobušická and O. Babušíková* (Bratislava, Slovak Republic)  
The relationship between argyrophilic proteins and some immunophenotype markers in acute leukemia cells.
- 10.30      *E. Zvetkova* ( Sofia , Bulgaria)  
Scanning cytospectrophotometric analysis of nuclear DNP of blood cells in human myeloid leukaemia.
- 10.45      *K. Smetana Jr., P. Zach , V. Němcová, P.Petrovický and H.-J. Gabius*  
( Praha, Czech Republic , Munich , Germany )  
Influence of central nervous system on the expression of carbohydrate binding sites on spleen macrophages.
- 11.00      *E. Zvetkova, E. Katzarova, I. Choudhury, A. Dikov and I. Tsenov*  
( Sofia , Bulgaria )  
Nitric oxide synthase and NO secretion pattern of murine macrophage subpopulations induced in vivo by ranopterin neopterin.

#### POSTER SESSION

Chairpersons: **T.Christova and V.Lichnovský**

- 11.15 - 12.00      *T.Christova, Z. Grozdanovic, D. Blottner and R. Gossrau* ( Sofia, Bulgaria , Berlin, Germany)  
Nitric oxide synthase I in neuromuscular junctions of type II .
- V. Lichnovský, Z. Kolář and Z. Tauber* ( Olomouc , Czech Republic )  
Development of BCL-2 expression in human embryos.
- D. Černochová, E. Pospíšilová, V.Lichnovský and L. Burda* (Olomouc, Czech Republic)  
Expression of P53 protein in CNS of human embryos
- M. Grim, K. Smetana jr. and J. Gabius* (Praha,Czech Republic,Munich, Germany)  
Migration of angiogenic cells from somites and limb primordia of avian embryos.
- V.Mareš, V. Lisá, A. Španová and D. Krajčí* (Praha, Czech Republic  
Kuwait City, Kuwait )  
Inhibition of growth and self-breakdown of C6 glioma cells exposed to Cisplatin and sodium borocaptate .

12.00 - 1.30 p.m.: Lunch.

13.30      Guided walk in old Prague.

Wednesday November 20, 1996

### VARIA I

Chairmen : S.Čech and P.Dubový

- 9.00      *S.Čech, W.Naib-Majani and W.Breipohl* (Brno, Czech Republic, Bonn Germany)  
Regional differences in expression of glucose-6-phosphate dehydrogenase activity in bovine lenses.
- 9.15      *B. Pospišilová, O.Procházková, D.Slížová and P.Bilek* (Hradec Králové , Czech Republic )  
Topochemistry of alkaline phosphatase in the major salivary glands of mice at various ages of postnatal life, and during pregnancy and lactation.
- 9.30      *M. Tománek, D. Monniaux, C. Pisset, T. Madigou and M.-L. Thieulant* (Praha-Uhříněves, Czech Republic, Nouzilly, France, Rennes, France )  
In situ analysis of estrogen receptor mRNA in the ovary of sheep.
- 9.45      *M. Jirkovská, J. Šmídová and D. Palouš* ( Praha, Czech Republic )  
Quantitative histochemical study of alkaline phosphatase activity in normal and diabetic placenta.

### VARIA II

Chairmen: H.Ueberberg and Z.Lojda

- 10.00     *Z. Lojda, J. Kobilková, J.Čapská and E. Havránková* (Praha, Czech Republic )  
Lysosomal enzymes and enzymes of pericellular proteolysis in the uterine cancer.
- 10.20     *Z.Zemanová and E.Maňáková* ( Praha , Czech Republic )  
Immunohistochemical study on the tubular-vascular barrier in normal and cystically dilated mesonephric tubules.
- 10.35     *K. Beneš and V. Šírová* ( České Budějovice , Czech Republic )  
Attempts to standardize safranine staining of lignified cell walls.
- 10.50     *J. Stano , P. Kovács, K. Neubert, P.Čupka and P.Blanárik* ( Bratislava, Malacky, Slovak Republic, Halle, Germany)  
Biochemical and histochemical study of CD 24 in some higher plants.

- 11.05      *J. Voříšek, N. Gas and M. Denis-Duphil* ( Praha, Czech Republic,  
Toulouse, France) .  
Cerium-based ultracytochemical localization of aspartate transcarbamylase activity in the yeast *Saccharomyces cerevisiae*.
- 11.20      *F. Weyda* (České Budějovice, Czech Republic)  
Eversible vesicle-vesicular gland complex in bristle tails (*Insecta Archeognatha*).
- 11.35      Closing ceremony.