

MEDICAL FACULTY OF PALACKÝ UNIVERSITY
DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY

CZECH SOCIETY OF HISTOCHEMISTRY AND CYTOCHEMISTRY



Symposium with International Participation

PROGRESS IN BASIC, APPLIED AND DIAGNOSTIC HISTOCHEMISTRY

organized under the Auspices of

International Federation of Societies of Histochemistry
and
Palacký University

PROGRAMME

Olomouc - Czech Republic
September 4 - 7, 1994

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SCIENTIFIC PROGRAMME

MONDAY, SEPTEMBER 5th

8,30 - 9,00 **Opening Ceremony**

9,00 - 10,00 **Opening Lectures**

Z. Lojda (Czech Republic):

The use of very sensitive substrates: derivatives of 7 - amino -4 - trifluoromethylcoumarin and trifluoromethylumbelliferol in the biochemical and histochemical assessment of hydrolases

G. Dhom (Germany):

Cancer cells and connective tissue : A historical review

M. Kasper (Germany):

Epithelial lung cell marker: current tools for cell typing

10,00 - 10,30 **Coffee Break**

10,30 - 12,00 **Basic Histochemistry**

Chairmen: R. Gossrau, Z. Lojda

R. Gossrau, T. Christova (Germany, Bulgaria):

Degradation of hydrogen peroxide (H_2O_2) using dihydroxyphenylalanine (DOPA) as hydrogen donor

R. Gossrau, T. Christova (Germany, Bulgaria):

Oxidation of 3,3 diaminobenzidine (DAB) by peroxidases (PO) in the absence of foreign hydrogen peroxide (H_2O_2)

F. - W. Rath, P. Würfl, D. Berger (Germany):

Immunohistochemical detection of BCL-2, C-FOS and MDM2 expression in human soft tissue sarcomas

I.B.Buchwalow, K.J.Böhm, U.Dürer, W. Schulze, R.Beckert (Russia, Germany):

Association of G - proteins with the cytoskeleton

I.B.Buchwalow, W. Schulze (Russia, Germany):

A cytochemical approach to the intracellular localization of G-proteins: a review

L.W.Didenko, I.B.Buchwalow, W.Schulze, R.Beckert, K.Augsten E. Unger
(Russia, Germany):

Cytochemical localization of G-proteins in macrophages and in bacteria

12,00 - 12,15 Coffee Break

12,15 - 13,15 Basic Histochemistry

Chairmen: W. Rath, V. Lichnovský

D. Berger, P. Würfl (Germany):

Antibody dependent p53 detection in human soft-tissue sarcomas

J.- U. Langer, R. Gossrau, Z. Nikolova, G. Nakos (Germany):

Co-localization of monoaminoxidase (MAOX) and glutathione -
peroxidase (GSH-POX) in marmosets (*Callithrix jacchus*) using
immunohistochemistry

M. A. Farré, H.Tlaskalová, J.Kolínská, H.Kozáková, R.Štěpánková, R.Barrot
(Czech Republic, France):

Effect of bacterial and 65-kilodalton heat shock protein, IL-6 and MHC class II
antigens on enzymatic activities and expression of molecules in intestinal epithelial
cells

J. Paleček, P. Pokorný, N. Češková, H. Jiřincová (Czech Republic):

Organization of cytoskeletal proteins during amphibian oogenesis

13,15 - 15,00 Lunch

15,00 Trip - Castle Bouzov

TUESDAY, SEPTEMBER 6th

**8,30 - 10,00 Basic Histochemistry,
Applied Histochemistry (Haematology)**

Chairmen: G. Dhom, K. Smetana

K. Filipiak, J.Warchol, J.Jaroszewski, K.Wiktorowicz (Poland):

Application of image analysis to DNA studies on human spermatozoa

D. Funda, J.P.Stevang, K. Buschard (Czech Republic,Denmark):
FACS analysis of T gamma delta cells in nod mice

K. Smetana Jr., H. - J. Gabius, J. Vacík, M. Jelínková (Czech Republic, Germany):
Detection of endogenous lectins in macrophages

R. Spessert, E. Layes, L. Vollrath (Germany):
Distinction and characterization of NOS - associated and NOS - unrelated
NADPH diaphorase activities in the rat olfactory bulb

L. Jonas, G. Fulda, B. Nebe, J. Rychly (Germany):
Lectin binding on isolated rat pancreatic acinar cells and intracellular Ca²⁺
mobilization after hormone stimulation

R.Gossrau, I.Bukaeva, N. Probatova, N. Raikhlin (Russia, Germany):
Aminopeptidases A and M in lymphoproliferative disorders (histochemical
study)

K. Smetana, I. Jirásková, M. Sedláčková (Czech Republic):
Notes to the distribution of nucleolar silver stained proteins in leukemic
lymphocytes

R. Bobik (Poland):
Acetylcholinesterase activity in megakaryocytes in bone marrow of sublethally
irradiated mice

10,00 - 10,30 **Coffee Break**

10,30 - 12,00 **Section A : Histochemistry of
Nervous Tissue**

Chairmen: J. Fisher, P. Dubový

J. Fischer, I. Fakla, Cs. Torday, L. Latzkovits (Hungary):
Tomato-lectin: marker of an astrocyte subpopulation in rat central nervous
system

P. Debbage, R. Pihusch, S. Lang, K. Bise (Germany):
Carbohydrate histochemistry of the endothelial membrane in gliomas

M. Nováková, I.Linhartová, V.Viklický, P.Dráber (Czech Republic):
Differential distribution of beta-tubulin epitopes in mouse brain

J. Mokřý, M.J. John, D.J. Clark (Czech Republic, United Kingdom):
Immunohistochemical evaluation of rat fetal mesencephalic cells grown in culture

P. Dubový, H. Aldskogius (Czech Republic, Sweden):
Histochemical evidence for the expression of growth-associated protein (GAP-43) in the terminal Schwann cells of rat sensory corpuscles

10,30 - 12,00 **Section B: Basic Histochemistry**

Plant Histochemistry

Chairmen: M.A. Farré, K. Beneš

V. Kopečný, S. Fakan, M. Biggiogera, J. Pivko, P. Grafenau (Czech Republic, Switzerland, Slovak Republic):
Electron microscope cyto- and immunohistochemical characterization of nuclear bodies in early bovine embryo

M. Tománek, D. Monniaux, C. Pisselet, R.J. Hutz (Czech Republic, France, Milwaukee, USA):
Estrogen receptor immunocytochemistry in ovary and granulosa cells in vitro

J. Motlík, J. Kalous, P. Kaláb, V. Sršeň (Czech Republic):
The p53, retinoblastoma protein and D1 cyclin in granulosa cells and embryonic stem cells

K. Beneš, S. Vitha, M. Michalová-Voldánová (Czech Republic):
The influence of freezing/thawing procedure on the activity of beta-glucuronidase in tissues of transgenic plants

S. Vitha, K. Beneš, M. Michalová-Voldánová (Czech Republic):
Effects of fixation on beta-glucuronidase activity in transgenic plants

11,45 - 12,00 **Coffee Break**

12,00 - 13,00 **Business Meeting of the Czech Society of Histochemistry and Cytochemistry**

13,00 - 14,30 **Lunch**

14,30 - 16,00 **Applied Histochemistry:
Cardiovascular system and Muscles**

Chairmen: J. Slezák, M. Grim

K. Punkt, L. Schaffranietz, G. Fitzl, K. Welt (Germany):

The effect of ginkgo biloba - treatment on some enzyme activities in the rat myocardium exposed to hypoxia. A cytophotometrical study

K. Punkt, V. Lichnovský (Germany, Czech Republic):

Changes of GPDH, SDH, and DPP IV activities in fetal human hearts and kidneys during intrauterine development

M. Grim (Czech Republic):

Emergence of endothelial cells in avian embryo

E. Bácsy, A.Kittel (Hungary):

Ecto-ATP-ase and 5-nucleotidase in the calveolae of smooth muscle

T. Soukup, M. Novotová, F. Pedrosa-Domellöf, L.E.Thornell: (Czech Republic, Sweden):

Expression of myosin heavy chain isoforms in neonatally deafferented rat intrafusal muscle fibres subsequently deprived of their sensory innervation

J.Slezák, N. Tribulová, J. Holičková, B. Uhrík, O. Slezáková, P.K.Singal (Slovak Republik, Canada):

Cytochemical demonstration of H_2O_2 in normal, ischemic and reperfused myocardium

A. Ziegelhöffer, M. Vrčjar, N. Tribulová, A. Džurba, B. Ziegelhöffer, J. Slezák (Slovak Republic):

Senzitive relationship between the ATP-ase activities determined histochemically and biochemically: Pitfalls originating from enzyme adaptation

R.A.Dzamukov, G.I.Poletaev, V.V.Valiullin (Russia):

Anabolic steroids don't change myosins quantitative composition in guinea pig fast and slow skeletal muscles

V.V.Valiullin, A.M.Devyatev, M.E.Valiullina, G.I.Poletaev (Russia):

Senzibilization induces synthesis of fast myosin in the denervated guinea pig slow muscle

R. S. Nizamov (Russia):

Comparative immunocytochemistry and electron microscopy study of the smooth muscle cells in the organotypical culture

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A.N.Grebenjuk, N.A.Smirnov (Russia):

Role of histochemical methods in the estimation of cell factors of the homeostatical regulation

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R. Gossrau, N. Raikhlin, N. Filipova, V. Ermilova, E. Esaulenko (Germany, Russia):

Gamma - glutamyltranspeptidase and dipeptidylaminopeptidase IV in fibrocystic disease, fibroadenomas and human breast carcinomas

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N. Tribulová, B. Ziegelhöffer, L. Okruhlicová, J. Slezák (Slovak Republic):

Ultrastructure and cytochemistry of the developing rat myocardium in normal and ischemic condition

WEDNESDAY, SEPTEMBER 7th

8,30 - 10,00 Applied and Diagnostic Histochemistry

Chairmen: W. Rath, Z. Lojda

R. Gossrau, N. Raikhlin, N. Filipova, V. Ermilova, E. Esaulenko (Germany, Russia):

Significance of aminopeptidase A and M in diagnosis of human breast cancer

Z. Lojda, J. Kobilková (Czech Republic):

Lysosomal enzymes in carcinomas of the uterus

J. Čejková, Z. Lojda, J. Ledvinková (Czech Republic):

The use of serine protease inhibitors and scavengers oxy-radicals in the treatment of corneal lesions

Z. Lukáš, B. Vojtěšek, M. Anton, V. Kubálek (Czech Republic):

Expression of p53 and MDM-2 proteins in cervical carcinogenesis

S.V.Petrov, N.M.Sukhova, N.T.Raikhlin, N. Mazurenko (Russia):

Immunohistochemistry of cellular oncoproteins in premalignant and malignant lesions of the uterine cervix

J.B.Warchol, K.Filipiak, J.Jaroszewski, K. Wiktorowicz (Poland):
Diagnostic value of DNA analysis in man infertility

J. Martínek, D. Nováková (Czech Republic):
To the question of localization of antiovarian antibodies

Z. Jirsová, Z. Vernerová, D. Nováková (Czech Republic):
Distribution of mouse embryonic TRC-1 and TRC-2 antigens in the female rat genital tract

10,30 - 11,00 Cofee Break

11,00 - 12,45 Applied and Diagnostic Histochemistry

Chairmen: H. Ueberberg, J. Martínek

S. Matolín, M. Hájek, D. Kurková, L. Perič, L. Havlíčková, J. Melichna, V. Horák (Czech Republic):
Histochemical and magnetic resonance spectroscopy data in 12 - 13 years old ice-hockey players

I. Kubišová, B. Pospíšilová (Czech Republic):
Enzyme activity during early postnatal development of the rodent nasal cavity

Z. Zemanová, R. Gossrau (Czech Republic, Germany):
Peptidases developing chick organs

E. Maňáková, Z. Zemanová (Czech Republic):
Histochemical study of the chicken extraembryonic membranes

V. Lichnovský, Z. Lojda, R. Gossrau (Czech Republic, Germany):
Histotopochemistry of APA in human embryos

12,45 Closing Ceremony