

Charles University - Faculty of Medicine Hradec Králové
Purkyně Military Medical Academy, Hradec Králové
Czechoslovak Society of Histochemistry and Cytochemistry
Czechoslovak Anatomical Society



Symposium with International Participation

PROGRESS IN BASIC, APPLIED AND DIAGNOSTIC HISTOCHEMISTRY

dedicated to the 65th birthday of
Prof. MUDr.Dr.med.h.c. Zdeněk LOJDA, DrSc.
Vice-Rector of Charles University

PROGRAMME

Hradec Králové - Czechoslovakia
December 6 - 9, 1992

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SCIENTIFIC PROGRAMME

MONDAY, DECEMBER 7:

8.30 - 9.30

Opening Session

Lojda Z., Kobilková J., Čapská J., Růžičková M., Bendl J., Šulc M. (Prague):
Lysosomal enzymes in cervical carcinoma

9.30 - 10.45

BASIC HISTOCHEMISTRY

Chairmen: Z.Lojda, R.Gossrau

Dhom G. (Homburg/Saar):

Jan Evangelista Purkyně and the cellular pathology

Gossrau R., Grozdanovic Z., Mische B. (Berlin, Greifswald):

Histochemical visualization of nitric oxide synthase (NOS) using NADPH and Nitro BT

van Noorden C.J.F. (Amsterdam):

Use of unfixed frozen material for combined LM and EM histochemistry

Lenke C., Halbhuber K.-J., Linss V. (Jena):

Morphology and enzymatic activity of cryofixed material

10.45 - 11.15

Coffee Break

11.15 - 12.15

Chairmen: C.J.F. van Noorden, M.J.Hardonk

Seidler E., van Noorden C.J.F. (Berlin, Amsterdam):

Tetrazolanyl radicals in the mechanism of tetrazolium reduction

van Noorden C.J.F. (Amsterdam):

In situ measurement of enzyme reaction kinetics

Hardonk M.J., Poelstra K., Bakker V.V. (Groningen):

The anti-inflammatory function of extracellular ATP-ase

Rath F., Vürl P., Berger D., Behringer A. (Halle):

Problems in standardization of Ag-NOR-measurement

12.15 - 14.00

Lunch Break

14.00 - 15.30

BASIC HISTOCHEMISTRY & HAEMATOLOGY

Chairmen: K.Smetana, V.Linss

Longauer F., Szabo M. (Košice):
Some experience in the enzyme histochemistry
of tissues damaged by high temperature

Paleček J., Elinson R.P. (Prague, Toronto):
Role of microtubules in the establishment of
Xenopus l. dorso - ventral axis

Smetana K. Jr., Jelínková M., Vacík J.,
Hašek J. (Prague):
Nonself recognition of polymers

Smetana K., Schöfer C., Vachtler F.,
Mosgöller V., Schwarzacher H.G., Jirásková
I., Ochs R. (Prague, Vienna, LaJolla):
Satellite nucleoli of human peripheral
lymphocytes

Schönfelder G., Graf R. (Berlin):
Increased γ -glutamyltranspeptidase activity
in fetal rat megakaryocytes after gluco-
corticoid administration: A sign of drug-
metabolism?

15.30 - 16.00

Coffee Break

16.00 - 17.30

Chairmen: J.Slipka, H.Luppa
Fischer J., Nagy Zs., Keresztes M., Ocsovszki
I. (Szeged):
Dynamics of polylactosamine chain expression
on leukocytes and endothelial cells

Gruss M. (Magdeburg):
Investigations on activating antigens on
T-cells

Ryšková P., Lemež P. (Prague):
Morphology of lymphoid cells in hairy cell
leukaemia

Lemež P., Jelínek J., Michalová K., Malasková
V., Koubek K., Březinová J., Schwarz J.,
Hrabánek J., Vítek A. (Prague):
Near-tetraploid acute leukaemia: Myeloid
features revealed in culture with phorbol
ester TPA

Klobušická M., Babušíková O., Hrivňáková A.
(Bratislava):
Relation of cytochemical activities of SBB,
5'NT and BG to the expression of CD34 marker
in acute leukemia

20.00

Banquet, Dance Party

TUESDAY, DECEMBER 8

8.30 - 10.25

R o o m I.

NERVE & MUSCLE

Chairmen: T.Soukup, S.Voerly

Grim M., v.Kirschhofer K., Christ B., Vachtler F. (Prague, Vienna, Freiburg):

Emergence of myogenic and endothelial cell lineages in avian embryos

Brichová H. (Prague):

Development of rat cortical plate

Seidel I., Bernstein H.-G., Poeggel G., Müller M., Reiser M. (Magdeburg):

Histochemistry of NO-synthase in rat brain: Embryonic studies and the influence of various metals

Richter V., Gossrau R., Mische B. (Berlin, Greifswald):

Catalytic monoamine oxidase (MAOX) histochemistry of the rat circumventricular organs (CVOs) during postnatal development

Gossrau R., Nakos G. (Berlin):

Generation of hydrogen peroxide (H_2O_2) by amine oxidases in nervous and extra-nervous tissue

Voerly S., Ulbrich K., Petrovicky P., Smetana K.Jr. (Quebec, Prague):

Implantation of hydrogels into the brain: design and prospective uses

Mokry J., Němeček S., Adler J. (Hradec Králové, Brno):

Immunohistochemistry of C6 glioma after inoculation into the brain of adult rats

10.25 - 10.45

Coffee Break

10.45 - 12.30

Chairmen: M.Grim, V.Richter

Dubový P., Rosario C.M., Carlstedt T., Sidman R.L., Aldskogius H. (Brno, Stockholm, Southborough):

Sensory reinnervation of the target tissues following orthotopic grafts of foetal allogeneic and xenogeneic dorsal root ganglia

Soukup T., Eriksson P.-O., Pedrosa-Domellöf F., Schiaffino S., Thornell L.-E. (Prague, Umeå, Padova):

Expression of myosin heavy chain isoforms in human intrafusal fibres.

Soukup T., Pedrosa-Domellöf F., Novotová M.,
Zachářová G., Thornell L.-E. (Prague, Umeå,
Bratislava):
Expression of MHCs in supernumerary intrafusal
fibres of deafferented rat spindles

Feit J., Lukáš Z. (Brno):
The use of planimetry in muscle biopsy

Lukáš Z., Foretová L. (Brno):
Expression of dystrophin in human skeletal
muscle: Development, regeneration and splitting

Matolín S. (Prague):
Relation between morphological and functional
parameters in nordic combination athletes

8.30 - 9.45
R o o m II.

UROGENITAL & RESPIRATORY SYSTEM
Chairmen: J.Martínek, R.Graf

Graf R., Langer J.-U., Hahn T., Öney T.,
Hartel-Schenk S., Reutter V. (Berlin):
The extravascular contractile system in the
human placenta. New aspects for function

Langer J.-U., Graf R. (Berlin):
Contractile filaments in the mature rat
placenta. Evidence for blood-pressure-regulation

Jirkovská M. (Prague):
Distribution of the alkaline phosphatase in
the placental barrier under normal and
pathological conditions

Martínek J., Nováková D., Hořejší J. (Prague)
To the question of circulating antiovarian
antibodies in sera of women

Jirsová Z. (Prague):
Alkaline phosphatase activity during early
postnatal development of the rat oviductal
epithelium

9.45 - 10.15

Coffee Break

10.15 - 11.30

Chairmen: Z.Jirsová, G.Dhom

Vernerová Z., Gössrau R. (Prague, Berlin):
Plasma membrane hydrolases in the rat
oviduct and uterine epithelium during development

Miehe B., Gossrau R. (Greifswald, Berlin):
γ-glutamyl transpeptidase in the epididymis
of animals and man

Miehe B., Gossrau R., Lojda Z. (Greifswald,
Berlin, Prague):
Visualization of α-D-mannosidase in the
mammalian epididymis using 5-Br-4-Cl-3-indoxyl
α-D-mannoside as substrate

Zemanová Z., Gossrau R. (Prague, Berlin):
Light microscopic visualization of transport
ATPase in the chick kidney using catalytic
histochemistry

Kubišová I. (Hradec Králové):
Topochemistry of some enzymes in the mucosa
of nasal cavity

12.30 - 14.00

Lunch Break

14.00

Visit of Třebechovice under Oreb,
sight-seeing tour of Hradec Králové

18.00 - 19.00

POSTER SESSION

Paleček J. (Prague):
New approach in detection of Amphibian
microtubules

Schönfelder G., Matejevic D., Vernerová Z.
(Berlin, Prague):
Histochemical reduction of TNBT by NADPH-
diaphorase in association to additives,
used for Nitric Oxide Synthase detection

Tribulová N., Slezák J., Ziegelhöffer A.,
Džurba A., Ravingerová T., Okruhlicová L.
(Bratislava):
Histochemical and biochemical aspects of
cardiac cell membrane damage in Ca paradox

Lazarová Z., Lojda Z., Holub P. (Bratislava,
Prague):
Mechanism of the effect of calcium
antagonists in the animal experimental
atherosclerosis (Histochemical and biochemi-
cal studies)

Pavlíková D. (Bratislava):
Distribution of nucleoside phosphatases in
the capillary endothelial cells

Gossrau R., Christova T., Daskalova R.
(Berlin, Sofia):
Enzyme expression in capillary endothelial
cells (CEC) of mammalian pancreatic islets

Mrázková O., Zemanová Z. (Prague):
Differentiation of the endothelium

Zvetkova E., Valet G. (Sofia, Munich):
Cytochemical and flow cytometrical analysis
of basic proteins in leucocytes

Hajdúch M., Kořousek R. (Olomouc):
"Nude rabbit" with features of aplasia of
B-lymphoid structures

Kukletová M., Pokorná M., Jedličková O.,
Papoušek J. (Brno):
Histochemistry of the orthodontically
treated dental pulp

Nikolova Z., Gossrau R. (Berlin):
Heterogenous expression of plasma membrane
enzymes in the marmoset (*Callithrix jacchus*)
and human liver

Vohlrab F., Kohnert K.D., Tröbs B. (Leipzig,
Karlsburg):
Diffuse multifocal mesodioblastosis with
nuclear hypertrophy. Histochemical observa-
tions and surgical treatment

Bilińska B. (Krakow):
Cytoskeletal proteins in cultured Leydig
cells: An immunofluorescence approach

Sršen V., King A.V. (Liběchov, Guelph):
Influence of low temperatures during in
vitro maturation of bovine oocytes on chro-
matin condensation and meiotic spindle
assembly

Kolář Z., Krčmář M. (Olomouc, Prague):
Detection of human papillomavirus type 11,
16, 18, 30 in paraffin-embedded archival
tissues by the hybridization DNA in situ

WEDNESDAY, DECEMBER 9:

8.30 - 9.15

PLANTS

Chairmen: K. Beneš, J. Stano

Stano J., Kovács P., Nemeč P., Kubica Š.
(Bratislava):
Localization of α -galactosidase in gherkin
seedlings

Beneš K., Voldánová-Michalová M., Vitha S.
(České Budějovice):
Localization artifacts caused by in toto
incubation to reveal GUS activity in
transgenic plants

Vitha S., Brada J., Vlachová M., Phillips J.P., Gartland K.M.A., Elliott M.C. (České Budějovice, Prague, Leicester):
Histochemical analysis of β -glucuronidase expression patterns in root tips of transgenic sugar beet

9.15 - 10.15

CARDIOVASCULAR & OTHER SYSTEMS

Chairmen: J.Slezák, J.Kunz

Schulze V., Buchwalow I.B. (Berlin, Moscow):
Localization of G-protein in heart tissue. Comparison of several immunohistochemical procedures

Slezák J., Tribulová N., Uhrík B., Singal P.K. (Bratislava, Vinnipeg):
Cytochemical approach in the study of free radicals in the heart: Peroxide localization

Lichnovský V., Lojda Z., Dosoudilová M. (Olomouc, Prague):
Quantitative evaluation of enzyme differentiation in the myocardium of human embryos

Vernerová Z., Gossrau R. (Prague, Berlin):
Enzyme histochemistry of capillary endothelial cells (CEC) in the rat uterus and oviduct during development

10.15 - 10.45

Coffee Break

10.45 - 12.30

Gossrau R., Vernerová Z., Zentel H.J. (Berlin, Prague):
Relevant and irrelevant enzymes for the study of skin inflammation

Čejková J., Lojda Z., Kadlecová D., Vacík J. (Prague):
The influence of plasmin applied to the normal and experimentally injured rabbit cornea

Bácsy E., Fazekas I., Slowik F., Pásztor E. (Budapest):
Transformation of a human pituitary tumour cell population in response to therapy: An EM immunocytochemical study

Kunz J. (Potsdam):
Cell kinetics in fibrocystic lesions and human breast carcinomas

Kamarád V., Kühnel V., Černochová D. (Olomouc, Lübeck):
Reaction of steroid-producing cells in mice ovary to lead administration

Dudorkinová D., Škába R. (Prague):
Histochemical findings in oral margin of
resected dysganglionic bowel

12.30

Closing Ceremony