

Societas Histo - et Cytochemica Bohemoslovaca

**Symposium
cum participatione internationali**

**PROGRESSUS IN HISTOCHEMIA GENERALI,
APPLICATA ATQUE DIAGNOSTICA**

HARRACHOV

Diebus 21 - 24 m. Aprilis 1987

Organisatum pro Societate Histo- et Cytochemica
a Laboratorio Histochemico

Facultatis Medicæ Universitatis Carolinae Pragensis
sub directione prof. MUDr. Z. Lojda, DrSc., sodalis
Acad.Sci.Bohemoslov.

Sub auspiciis praesidium honorificorum

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praeses Academiae Scientiarum Bohemoslovacae

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SCIENTIFIC PROGRAM

Wednesday April 22, 1987

8.15 Opening ceremony

8.45-10.35 Enzyme Histochemistry I
Chairmen: Garrett, J., Lojda, Z

1. 8.45-9.05 Stoward, P.J., Stapleton, A. (UK):
Multivariate Quantitative Enzyme Histochemistry: A New Tool for Diagnostic Histopathology
2. 9.10-9.30 Gossrau, R., Lojda, Z., Graf, R., Ruhnke, M., (Berlin-West, ČSSR)
The Current State of Indoxyl Substrates in Catalytic Enzyme Histochemistry, Immunohistochemistry, Affinity Histochemistry and Hybridocytochemistry
3. 9.35-9.45 Halbhüber, K.-J., Zimmermann, N., Linss, W. (GDR):
Improvements in Cerium based Phosphatase Cytochemistry
4. 9.50-10.00 Slezák, J., Okrouhlicová, L., Tribulová, N. (ČSSR):
Imperfection and Pitfalls in Cytochemical Adenylate Cyclase Demonstration and how to avoid them
5. 10.05-10.15 Seidler, E. (GDR):
Model Tests for the Histochemical Investigation of Hydrolases with Tetrazolium Salts
6. 10.20-10.30 Stoward, P.J., Nakae, Y. (UK):
Simultaneous Histochemical Assay of Two Dehydrogenases in the Same Cell

10.35-10.50 Coffee Break

10.50-12.35 Enzyme Histochemistry II

Chairmen: Gossrau, R., Slezák, J.

7. 10.50-11.00 Juliš, J., Lojda, Z., Schnabel, R. (ČSSR, GDR):
Some Examples of the Usefulness of Image Analysis
in Enzyme Histochemistry
8. 11.05-11.15 Pařízek, J., Sližová, D. (ČSSR):
Combined Enzyme Histochemistry - Resin Casts- Scanning
Electron Microscopy Method
9. 11.20-11.30 Garrett, J.R., Osman, I.A., Smith, R.E. (UK, USA):
Protease Histochemistry for Studying Human Mast
Cells
10. 11.35-11.45 Lojda, Z., Kotalová, H., Šmidová, J., Ueberberg, H.
(ČSSR, FRG):
Protease Histochemistry in the Study of Mast Cells
of the Human Jejunal Mucosa in Patients with Mal-
absorption Syndrome
11. 11.50-12.00 Gossrau, R., Graf, J. (Berlin-West):
Species Differences and the General Biological Sig-
nificance of Proteases
12. 12.05-12.15 Lojda, Z., Růžičková, M., Šmidová, J., Prošková,
J., Šálková, J., Smith, R.E. (ČSSR, USA):
The Dilemma in the Choice of the Most Suitable
Substrate for the Assessment of DPP IV Activity in
Human Lymphocytes
13. 12.20-12.30 Dubový, P. (ČSSR):
Histochemical Study of the Dipeptidyl Peptidase IV
Activity in Cat and Macaque Glabrous Skin
- 12.35- 14.00 Lunch

14.00-16.45 Immunohistochemistry

Chairmen: Lappa, H., Lojda, Z.

14. 14.00-14.20 Raška, I., Kostrouch, Z., Jarník, M., Lejnář, J.,
Bědnář, J., Petrašovičová, V., Koberna, K. (ČSSR):
The Use of Colloidal Gold Complexes for Light and
Electron Microscopic Histochemistry
15. 14.25-14.35 Schulze, W., Holtzhauer, M. (GDR):
An Attempt to Localize Phospholamban by the Immuno-
gold Technique
16. 14.40-14.50 Lukáš, Z., Viklický, V., Dráber, P., Feit, J.
(ČSSR):
Reactivity of Monoclonal Antibody (VI-01) to Vim-
entin and Desmin with Human Tissues
17. 14.55-15.05 Graf, R., Gossrau, R. (Berlin-West):
Immunocytochemistry of the Cytoskeleton of the
Mouse and Rat Decidua
18. 15.10-15.20 Hardonk, M.J., Koudstaal, J. (Netherlands):
Immunohistochemical Methods in the Study of Kupffer
Cell Behavior
19. 15.25-15.35 Geiler, G., Geiler, T. (GDR):
Differentiation of B and T Lymphocytes of Synovial
Fluid in Cases of Rheumatoid Arthritis Using Mono-
clonal Antibodies. Relation to the Local Activity
20. 15.45-15.55 Bain, H., Stiller, D. (GDR):
Immunohistochemical Localization of Fibronectin in
Soft Tissue Tumors
21. 16.00-16.10 Wöckel, W., Hofman, W. (FRG):
Immunohistochemical Findings in the Carcinoid Tu-
mour of the Thymus
22. 16.15-16.25 Fuchs, U., Hahn von Dorsche, H., Ziegler, M. (GDR):
Glucagon Antibodies and Pancreatic Islets

23. 16.30-16.40 Hulinská, D., Ženka, J., Grim, M., Jegorov, A. (ČSSR):
Immunocytochemical Study of *Trichinella Spiralis* and *T. Pseudospiralis* and Effect of their Excretion on the Muscle Fibre Alterations
- 16.45-17.00 Coffee Break
- 17.00-18.30 Enzyme Histochemistry III
Chairmen: Stoward, P.J., Mitro, A.
24. 17.00-17.10 Rath, F.W., Körner, Th. (GDR):
Enzyme Histochemical Investigations of Ito's Cells in Semithin Sections of Human Liver Biopsy Specimens
25. 17.15-17.25 Voříšek, J. (ČSSR):
Electron-Cytochemical Localization of Leucine Aminopeptidase (P) and Carboxypeptidase Y in Vacuoles of *Saccharomyces Cerevisiae*
26. 17.30-17.40 Voříšek, J., Nagy, M., Hervé, G. (France):
Ultracytochemical Localization of Dihydroorotate Dehydrogenase in *Saccharomyces Cerevisiae*
27. 17.45-17.55 Hadačová, V., Beneš, K., Klozová, E. (ČSSR):
Are in Plant Material Naphthyl Esters and Naphthyl Amides Hydrolyzed by PAGE Identical or Different Enzyme Proteins?
28. 18.00-18.10 Beneš, K., Binarová, P. (ČSSR):
The Localization of Carboxyl Esterase in Embryoids of *Medicago Sativa L.* in Connection with their Polarity
29. 18.15-18.25 Mrázková, O., Zemanová-Friebová, Z. (ČSSR):
Enzymatic Activities in Developing Vascular Beds of the Chick Embryo Kidneys and Liver

Thursday, April 23, 1987

8.00-10.55 Neurohistochemistry

Chairmen: Davidoff M., Lodin Z.

30. 8.00-8.10 Maršák, T.L., Zatsepina, O.V., Karavanov, A.A., Brodskij, V.Ja., Mareš, V. (USSR, ČSSR):
Organization of the Nucleolar Apparatus and Transcription Activity of rRNA Genes in Nerve Cells of the Cerebellum
31. 8.15-8.25 Faltin, J., Lodin, Z., Lisá, V., Mareš, V., Lojda, Z. (ČSSR):
Histochemistry of Peptidases in Cultivated Normal and Transformed Nerve and Glial Cells
32. 8.30-8.40 Mareš, V., Lisá, V., Faltin, J., Lisý, V., Lodin, Z., Lojda, Z. (ČSSR):
 γ -Glutamyl Transpeptidase (GGT) in *C₆* Glioma Cells During Spontaneous Growth and After Sublethal Cisplatin Treatment
33. 8.45-8.55 Peoggel, G., Lappa, H., Ludwig, A. (GDR):
Histochemical Demonstration of Cyclic Nucleotide Phosphodiesterase in the Hippocampus of Rat and Hamster
34. 9.00-9.10 Davidoff, M., Schulze, W. (BPR, FRG):
Coexistence of Gaba and Choline Acetyltransferase in the Central Nervous System of the Rat
35. 9.15-9.25 Mitro, A., Lojda, Z. (ČSSR):
Histochemical Study of Proteases in Extraventricular Liquor Space of Rat
36. 9.30-9.40 Kamarád, V. (ČSSR):
Histochemical Changes in Rat Plexus Chorioideus After Supralethal Irradiation
37. 9.45-9.55 Mráz, J., Šubrtová, I. (ČSSR):
The Effect of Isopropylmethyl-Phosphonofluoridate (Impf) on Nervous System, and Its Possible Influencing with Preventive Therapy

38. 10.00-10.10 Haninec, P., Grim, M. (ČSSR):
Localization of Dipeptidylpeptidase IV (DPP IV) in Spinal Cord and Peripheral Nerve Sheats of the Rat
39. 10.15-10.25 Pavliková, I., Kapeller, K. (ČSSR):
Distribution of Nucleoside Phosphatase by Cerium Methods in the Rat Superior Cervical Ganglion
40. 10.30-10.40 Diculescu, I. (RPR):
Cytochemical Identification of Paranodal Zone in the Nerve Fibre
41. 10.45-10.55 Michel, G., Lappa, H., Andrá, J. (GDR):
The Demonstration of Myo-neuronal Synapses in Swine Skeletal Muscle Fibres
- 11.00-11.15 Coffee Break
- 11.15-12.30 Histochemistry of Cardiac and Skeletal Muscles
Chairmen: Schulze, W., Slezák, J.
42. 11.15-11.25 Okrouhlicová, L., Slezák, J., Tribulová, N. (ČSSR):
Cytochemical Localization of Guanylate Cyclase in Cardiac Myocytes of Atrial and Ventricular Fibres
43. 11.30-11.40 Tribulová, N., Slezák, J., Gabauer, I., Okrouhlicová, L. (ČSSR):
Morphological Expression of Peculiarities in Conduction System Ischemia
44. 11.45-11.55 Lazarová, Z., Slezák, J. (ČSSR):
Electron Microscopical Demonstration of the Activity of Succinic Dehydrogenase in the Model of Iso-propraline Necrotization of Myocardium
45. 12.00-12.10 Asmussen, G., Soukup, T. (ČSSR, GDR):
Influence of Suspension Hypokinesia on Fibre Types of Rat Slow and Fast-Twitch Muscles
46. 12.15-12.25 Soukup, T., Asmussen, G. (ČSSR, GDR):
The Effect of Suspension Hypokinesia on Muscle Spindles and Tendon Organs of the Rat Slow and Fast-Twitch Muscles
- 12.30-14.00 Lunch
14.00 Sight Seeing (Walk)
19.00 Banquet
- Friday, April 24, 1987
- 8.00-11.00 Cytochemistry of Blood and Other Cells. Histochemistry of Digestive and Urogenital System
Chairmen: Rath, W., Smetana, K.
47. 8.00-8.10 Lemež, P., Lemež, L., Lojda Z. (ČSSR):
Cytochemical Examination on Chick Embryonic Haemopoietic Cells
48. 8.15-8.25 Smetana, K., Jirsová, I. (ČSSR):
Further Studies on the Distribution of AgNOR Proteins in Interphase Nucleoli
49. 8.30-8.40 Klobušická, M., Babušková, O., Hrvnáková, A. (ČSSR):
A Comparative Cytochemical and Biochemical Analysis of Immunologically Phenotyped Human Leukemia Cells
50. 8.45-8.55 Motlik, J., Fulka, J., Rimkevičová, Z., Fulka, J. (ČSSR):
Effect of Cyclic and Elevating Agents on Nuclear Maturation of Pig and Mouse Oocytes
51. 9.00-9.10 Smetana, K.Jr. (ČSSR):
Comments to the Biology of Multinucleate Osteoclasts
52. 9.15-9.25 Kunz J., Duncker, M., Plaschke, G. (GDR):
Mechanical Stress Effects on Cell Proliferation and ^3H -Proline Incorporation in Periodontal Ligament
53. 9.30-9.40 Lojda, Z., Kolinská, J., Šmidová, J., Gossrau, R. (ČSSR, Berlin-West):
Are Synthetic Substrates Suitable for the Diagnosis of Sucrase-Isoamylase Deficiencies in Biopsies of Jejunal Mucosa of Patients with Malabsorption Syndrome?

54. 9.45-9.55 Kudweis, M., Vitovec, J., Koudela, B. (ČSSR):
Some Histochemical Findings in the Intestinal Mucosa of Piglets During the Experimental Infection with Coccidia Eimeria Scabra (Henry 1931)
55. 10.00-10.10 Lichnovský, V., Lojda, Z., Boček, M., Melníková, A. (ČSSR):
Activities of Some Hydrolases in the Developing Human Kidney (Metanephros)
56. 10.15-10.25 Abdalla, M., Luppa, H., Andrä, J. (GDR):
Histochemische Darstellung und elektrophoretische Charakterisierung von Acetylcholinesterase in der Vertebratenniere
57. 10.30-10.40 Hardonk, M.J., Bakker, W.W. (Netherlands):
Occurrence and Functional Significance of Nucleoside Di- and Triphosphatase in the Glomerular Basement Membrane of the Rat Kidney
58. 10.45-10.55 Graf, R., Gossrau, R., Ruhnke, R. (Berlin-West):
Renal Proteases in Dogs and Marmosets. Alternative to the Human Enzymes?
- 11.00-11.15 Coffee Break
- 11.15-14.00 Miscellaneous
Chairmen: Ueberberg H., Mareš V.
59. 11.15-11.25 De Nollin, S., Jacob, W., Dockx, P. (Belgium):
Laser Microprobe Mass Analysis (Lambda) of Cytochemically Localized Calcium in Aspergillus Fumigatus after Exposure to Ketokonazole
60. 11.30-11.40 Wohlrab, F., Schwarz, J. (GDR):
Stainability of Oxidized Insuline by Victoria Blue 4R. Spectrophotometric Investigation
61. 11.45-11.55 Bácsy, E., El-Sherif, G. (Hungary):
Ultrastructural Study of the Ca^{2+} -Dependent ATP-ase Activity in Rat Adenohypophyseal Cells
62. 12.00-12.10 Čejková, J., Lojda, Z. (ČSSR):
The Usefulness of the Histochemical Methods in the Evaluation of Corneal Hydration Changes in Various Experimental Conditions
63. 12.15-12.25 Čejková, J., Lojda, Z., Brnává, B., Vacík, J., Michálek, J. (ČSSR):
Morphological and Histochemical Changes in the Rabbit Cornea after Short-Term and Long-Term Wear of Soft Contact Lenses
64. 12.30-12.40 Hadon, M., Ulrich, V., Vogel, A., Pieper, K.S., Kässner, A. (GDR):
Histochemical and Biochemical Investigation on Functional Characteristics of the Condylary Cartilage of the Temporo-Mandibular Joint in Miniature Pigs
65. 12.45-12.55 Žáorská, Z., Valounová, J. (ČSSR):
Localization of Mucosubstances, Proteins, Enzymes and Lipids in the Adult Trematode Brachylaimus Aequans
66. 13.00-13.10 Bilek, P. (ČSSR):
Differences of the Enzymes Activities in the Diverse Glandular Types of the Spider's Spinning Apparatus
67. 13.15-13.25 Weyda, F. (ČSSR):
Vesicular Glands in Archacognatha (Insecta)
68. 13.30-13.40 Kulich, J., Vit, A., Horský, J., Friedrich, A. (ČSSR):
Changes of Acid Phosphates and Non-Specific Esterase Zymograms Obtained after Isoelectric Focusing (IEF) of Homogenates of Virus Infected Plant Tissue
69. 13.45-13.55 Loden, Z., Tauber, O. (ČSSR, FRG)
A "Thought" on a Mutual Interaction between Peripheral Muscarinic Receptors, Enteropeptides and the Gastric Function and Hierarchy in the Peptides System

14.00 Closing Ceremony