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Euroworkshop on Interdisciplinary Perspectives of Diagnostic Pathology, Cell Biology, and Morphometry

Heidelberg, Conference Center of the German Cancer Research Center (DKFZ)

December 8 – 10, 2000

Preliminary Program

I. Biological Information Transfer beyond the Genetic Code

*H.-J. Gabius: Introduction, biochemical point of view
*K. Kayser: Introduction, morphological point of view

I.I The ligand's personality

*B.-J. Hardy: Modeling and NMR

I.2 Protein-carbohydrate interactions: Basic concepts and new developments

*J. Jimenez-Barbero: NMR
*A. Romero: X-ray analysis
*D. Solis: Chemical mapping and calorimetry
*A. Heck: Mass spectrometry

I.3 Biological implications

*F. Poirier: Lessons from KO mice
*A. Villalobo: Biosignalling in the sugar code
*R. Kiss: Galectins, cell growth and migration
*Y. Zick: Galectin-8: Regulator of cell adhesion and apoptosis
*R. Liskamp: Drug design

I.4 Morphological implications

*A. Danguy: Glycohistochemistry
*K. Kayser: Ligandohistochemistry and the structural entropy concept
*P. Tosi: Oncosuppressor genes and malignant lymphomas

*J. Mairinger: Nuclear texture analysis
*J. Salisbury: 3D reconstruction of histological images
*P. Hamilton: Machine vision in histology
*T. Kim: Use of automatic image analysis methods to investigate angiogenesis
*C. Zachariou: Detection of single nucleotide mutations and polymorphisms of p53

II. Effective handling of morphological information

II.1 Clinical impact and problems

*L. Carvalho: Interdisciplinary pathology, demonstrated for lung pathology
*Y. Collan: Problem solving in modern pathology
*J. Salisbury: Clinical importance of cellular pathology
*J. Szymas: Telecommunication in pathology
*R. Kiss: Image data bases in pathology
*K. Kayser: Electronic publication and routine diagnostic information

II.2 Statistical aspects

*Y. Collan: Decision support models
*P. Hamilton: Classic methods in statistics

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III. Teaching courses, case seminars and round table discussions

II.1 Teaching course in telepathology (Y Collan, K Kayser, J Szymas)

III.2. Teaching course in morphometry and statistics (Y Collan, P Hamilton, K Kayser, R Kiss)

III.3 Case seminar in quantitative pathology (Y Collan, K Kayser, R Kiss)

III.4. Teaching course on mew methodological advances in glycosciences (invited speakers)

III.5 Round table to define interdisciplinary research (chair: H-J Gabius, K Kayser)