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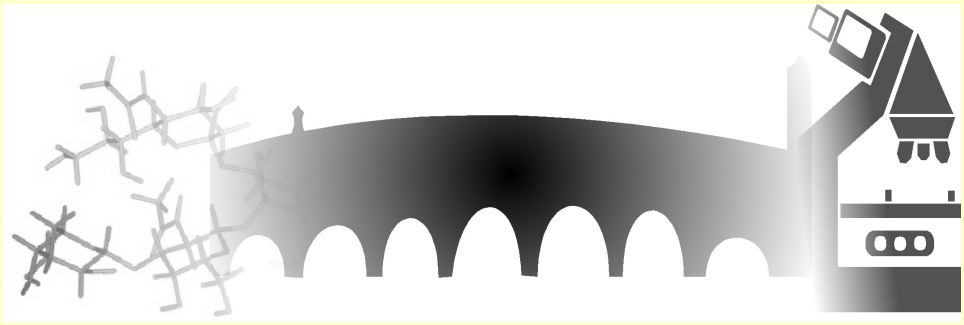

Euroworkshop on Interdisciplinary Perspectives of Diagnostic Pathology, Cell Biology, and Morphometry

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

December 8 – 10, 2000

Program

Friday, December 8, 2000

19.00 Registration and Introduction, Get-together Party

Saturday, December 9, 2000

PLENARY SESSION

09.00 – 09.10 Welcome address (F von Bohlen und Halbach, Mayor's office)

09.10 – 09.15 Welcome and principal comments (K Kayser)

09.15 – 09.45 Information transfer beyond the genetic code: the sugar code (H-J Gabius)

09.45 – 10.10 Biosignaling in the sugar code (A Villalobo)

10.10 – 10.40 Coffee Break

SESSIONS OF CELL BIOLOGY/GLYCOSCIENCES AND PATHOLOGY EXPERTS

Cell biology/glycosciences

10.40 – 11.10 NMR investigations in protein-carbohydrate interactions (J Jimenez-Barbero)

11.10 – 11.40 X-ray crystallography of galectins (A Romero)

11.40 – 12.10 Design of pharmaceuticals to interfere with protein-carbohydrate interactions (R Pieters)

12.10 – 12.45 Discussion of perspectives

Pathology

10.40 – 11.05 Three-dimensional reconstruction in pathology (J Salisbury)

11.05 – 11.30 Automated machine vision in diagnostic pathology (P Hamilton)

11.30 – 11.55 Nuclear texture analysis (T Mairinger)

11.55 – 12.20 Contribution of image analysis to the quantification of blood vessels in ovarian tumors (K Tran)/p>

12.20 – 12.45 Discussion of perspectives

12.45 – 14.15 Lunch

PLENARY SESSION

14.15 – 14.45 Glycohistochemistry: basic concept and applications in histology and pathology (A Danguy)

14.45 – 16.45 Poster discussion/Educational seminars

16.45 – 17.15 Coffee break

Cell biology/glycosciences

17.15 – 17. 40 Application of mass spectrometry in analyzing protein-carbohydrate interactions (A Heck)

17.40 – 19.00 Poster discussion/Teaching course on new methodological advances

Pathology

17.15 – 17.40 Problem solving in modern pathology (Y Collan)

17.40 – 18.05 Interdisciplinary pathology, demonstrated for lung pathology (L Carvalho)

18.05 – 18.30 Telecommunication in pathology (J Szymas) (seminar)

18.30 – 18.55 Interdisciplinary approach and general remarks (K Kayser, E Vollmer) (seminar)

Dinner

Sunday, December 10, 2000

SESSIONS OF CELL BIOLOGY/GLYCOSCIENCES AND PATHOLOGY EXPERTS

Cell biology/glycosciences

08.30 – 08.55 Lessons from KO mice (F Poirier)

08.55 – 09.20 Insights into the role of galectins in motility and proliferation (I Camby)

09.20 – 09.45 Galectin-8: regulator of cell adhesion and apoptosis (Y Zick)

09.45 – 10.15 Discussion of perspectives

Pathology

08.30 – 08.55 Three-dimensional reconstruction in pathology (J Salisbury)

08.55 – 09.20 Decision support models (Y Collan)

09.20 – 09.45 Classic methods in statistics (P Hamilton)

09.45 – 10.15 Teaching course in morphometry and case seminar (Y Collan, K Kayser, T Mairinger)

10.15 – 10.45 Coffee break

Cell biology/glycosciences

10.45 – 11.30 Meet the Speaker session

Pathology

10.45 – 11.30 Teaching course in telepathology (J Szymas, K Kayser), and Meet the speaker session

PLENARY SESSION

11.30 – 12.30 Round table to define perspectives for interdisciplinary projects and concluding remarks (H-J Gabius, K Kayser)

12.30 Lunch

end of the workshop

POSTER SESSION

Y. Collan, T. Kuopio, P. Jalava, A. Elzagheid, A. Buhmeida, M. Aaltonen, P. Kronqvist
Decision support models

R. Mazzucchelli, A. Santinelli, P. Colanzi, R. Pornante, R. Montironi
Karyometrie analysis of normal-looking columnar epithelium adjacent to and distant from high grade PIN and prostate cancer.

M. Dragomir, B. Ioana, C. Tudose
Histological research regarding the development of human dental bud papillia

M. Dragomir, B. Ioana, C. Tudose
The autofluorescence of normal and carious dentin in human teeth and its relationship with entin mineralisation degree

M. Jiménez, JI. Laynez, A. Romero, J. Jiménez-Barbero, S. André, H-J. Gabius, D. Solís
Structural basis for differences in carbohydrate recognition by the homologous toxic lectins viscumin and ricin

H. Kaltner, W. Dettmann, M. Grandbois, M. Benoit, A.K. Wehle, S. André, H-J. Gabius, H.E. Gaub
How stable are sugar receptor (lectin, antibody) - ligand (β-galactoside) complexes at increasing forces?

H. Lahm, S. André, A. Hoeflich, J. R. Fischer, B. Sordat, H. Kaltner, E. Wolf, H.-J. Gabius
Galectinomics (Galectin-1, -2, -3, -4, -7, -8 and -9 fingerprinting) in human tumor cell lines

H. Lahm, A. Hoeflich, S. André, B. Sordat, H. Kaltner, E. Wolf, H.-J. Gabius
Identification of a novel isoform of galectin-8 in human colorectal carcinoma cell lines

S. André, B. Frisch, H. Kaltner, D. Lima Desouza, F. Schuber, H.-J. Gabius
Cluster glycosides in drug targeting: will they distinguish between different families of endogenous lectins?

S. André, P. J. C. Ortega, M. Alamino Perez, R. Roy, H-J. Gabius
Will starburst glycodendrimers display sugar-receptor-dependent properties important for their capacity as cell-adhesion inhibitor?

M.A. Canales, J.M. Alonso-Plaza, A. García-Herrero, L. Iturrino, M. Jiménez, D. Solís, JI. Asensio, FJ. Cañada, H-C.Siebert, S. André, H-J.Gabius, J. Jiménez-Barbero
NMR Investigations of Protein-Carbohydrate Interactions. Insights on the Bound Conformation of beta-Galactosyl Xyloses to Misletoe Lectin and to Galectin-1

C. Zachariou, VD. Malamou-Mitsi, J. Georgiou, N.J. Agnantis

Detection of P53 gene mutations in breast cancer by denaturing gradient gel electrophoresis (DGGE)

A. Charhanti, E. Ioachim, B. Fyden, N.J. Agnantis
Ultrastructral and immunhistolchemical observations on amorphous matrices related to basal lamina in brest cancer

J.D. Baumhäkel, K. Kayser, J. Kos, E. Spiess, W. Ebert, W. Fiehn, B. Werle
Increased Cluster-Formation of Cathepsin B-positive Tumor Cells in Squamous Cell Carcinomas of the Lung

M.F. López-Lucendo, D. Solís, T. Díaz-Mauriño, H. Kaltner H.-J. Gabius, A. Romero
Structure of human galectin-1: comparison of gal-1 C2S and R111H mutants with the native protein

A. Romero, M.F. López-Lucendo, P.F. Varela, D. Solís, T. Díaz-Mauriño, H. Kaltner, H.-J. Gabius
Structural Studies on Galectins