

第 2 回 札幌国際がんシンポジウム

テーマ

"Membrane-Associated Alterations in Cancer: Biochemical Strategies Against Cancer"

日時

1982 年 7 月 14 日～17 日

会場

センチュリーロイヤルホテル（札幌市中央区）

代表世話人

牧田 章（北海道大学）

The 2nd Sapporo International Cancer Symposium

Theme:

"Membrane-Associated Alterations in Cancer: Biochemical Strategies Against Cancer"

Date:

July 14-17, 1982

Venue:

Century Royal Hotel, Sapporo, Japan

Organizing Committee(*Chairperson):

Leonard Warren, Philadelphia

Setsuro Fujii, Osaka

Shigeru Tsuiki, Sendai

Akira Makita*, Sapporo

Program:

Session I: Biochemical Strategies Against Cancer

(Chairmen: H. Hirai and A. Makita)

Tumor promoters and membrane

T. Sugimura & H. Fujiki, Tokyo

Altered glycoprotein carbohydrates in normal and pathological cells

L. Warren & G. Cossu, Philadelphia

Session IIA: Membrane Structure and Malignancy, Alteration in glycoconjugates

(Chairmen, G.L. Nicolson and T. Osawa)

Glycoconjugate alterations associate with malignant cells.

E. A. Davidson et al, Hershey

Alterations of glycoproteins and glycosaminoglycans associated with malignant transformation.

I. Yamashina et al, Kyoto

Turnover of plasma membrane glycoproteins from liver and hepatoma.

W. Reutter & R. Tauber, Berlin

Structural change of the asparagine-linked sugar chains of plasma membrane glycoproteins by cell transformation.

A. Kubota et al, Kobe

Session IIB: Membrane Structure and Malignancy, Alteration in glycoconjugates

(Chairmen, E.A. Davidson and I. Yamashina)

Tumor-associated glycolipid markers in experimental and human cancer defined by monoclonal and polyclonal antibodies.

S. Hakomori, Seattle

Membrane-galactosyl sites: Role in lymphocyte proliferation and differentiation.

A. Novogrodsky & K.H. Stenzel, Petah-Tikva

Structural changes in carbohydrate chains of thyroglobulin from transformed thyroid glands.

T. Osawa et al, Tokyo

Carbohydrate structures expressed in certain malignant cells: Large carbohydrates in embryonal carcinoma and new fucosyl antigens in colon adenocarcinoma.

T. Matsumura et al, Kagoshima

Session IIC: Membrane Structure and Malignancy, Alteration in cell surfaces

(Chairmen, D.F.H. Wallach and S. Fujii)

Metastatic tumor cell attachment to vascular endothelial cells and the destruction of their underlying matrix.

G.L. Nicolson et al, Houston

Myeloproliferative/lymphoproliferative diseases and human carcinogenesis: Significance of an unusual membrane protein in polycythemia vera.

D.F.H. Wallach et al, Boston

Shedding from the cancer cell surface: Importance in determining pathophysiology of cancer.

P.H. Black, Boston

Session IIIA: Alterations of Membrane-Related Enzymes in Cancer, Enzymes involved in the biosynthesis of glycoconjugates
(Chairmen, H. Schachter and S. Tsuiki)

Enzymatic control of oligosaccharide branching during synthesis of membrane glycoproteins.

H. Schachter et al, Toronto

Alterations of β -galactoside α 2 \rightarrow 6 sialyltransferase in rat hepatoma.

T. Miyagi & S. Tsuiki

Comparison of glycosyltransferases in the Golgi complex and some cell surface glycoproteins between rat liver and ascites hepatoma.

Y. Ikehara, Fukuoka

Biosynthesis, turnover and localization of galactosyltransferase in HeLa cells.

E.G. Berger et al, Berne

Effect of differentiating agents on glycoenzymes and glycosyltransferases in human colorectal adenocarcinoma cells.

Y.S. Kim & A. Morita, San Francisco

Session IIIB: Alterations of Membrane-Related Enzymes in Cancer, Cancer associated changes in the processing of enzyme
(Chairmen, A. Szewczuk and A. Kobata)

Factors involved in onset and switch-off of hepatic γ -glutamyltransferase.

T. Higashi et al, Osaka

γ -Glutamyltransferase in rats with Morris hepatomas.

A. Szewczuk et al, Wroclow

γ -Glutamyl transpeptidase from tumor tissues: Chemical, enzymatic and biological properties.

N. Taniguchi et al, Sapporo

Changes in molecular forms of γ -glutamyltransferase and UDP-glucuronyltransferase during hepatocarcinogenesis.

K. Sato et al, Hirosaki

Clinical and experimental studies on novel γ -GTP isoenzyme which is found specifically in sera of hepatocellular carcinoma.

N. Sawabu et al, Kanazawa

Session IIIC: Alterations of Membrane-Related Enzymes in Cancer, Cancer associated changes in the processing of enzyme
(Chairmen, Y.S. Kim and N. Hattori)

Alkaline phosphatases in human cancer.

K. Higashino, Osaka

Alteration of arylamidase in cancer.

M. Niinobe & S. Fujii, Osaka

Cancer-associated alterations of lysosomal arylsulfatase in human lung cancer.

S. Gasa & A. Makita, Sapporo

Session IV: General Discussion

(Chairmen, P.H. Black, S. Hakomori and L. Warren)

Poster Session: A) Membrane Structure and Malignancy

Changes of glycolipid composition and metabolism during the differentiation of mouse leukemia cells.

T. Taki et al, Shizuoka

Surface localization of mucin-type glycoproteins.

A. Barsoum et al, Hershey

Human gastric cancer -associated changes in gastric glycoproteins.

K. Hotta et al, Sagamihara

Change from N-acetylneuraminate to N-glycolylneuraminate in glycoconjugated associated with malignant cells in human and chicken.

M. Naiki et al, Sapporo

Comparison of cellular heparan sulfates isolated from AH-130 ascites hepatoma cells and normal hepatocytes.

N. Nakamura et al, Osaka

Induction of differentiation of mouse myeloid leukemia cells by modification of membrane phospholipids composition with choline analogues.

M.Hozumi et al, Saitama

Membrane-associated α -fetoprotein(AFP) in cultured hepatoma cells.

Y. Tsukada & H. Hirai, Sapporo

Poster Session: B) Alteration of Membrane-Related Enzymes in Cancer

Cell surface and Golgi localization of galactosyltransferase in human stomach, jejunum, liver and pancreas.

E.G. Berger et al, Berne

Galactosyltransferases in human lung carcinoma.

S. Kijimoto-Ochiai et al, Sapporo

Alteration of aminopeptidase N in renal cell carcinoma and gastric cancer.

K. Hiwada et al, Tokushima

Alterations of membrane-related enzymes in chemically induced rat hepatoma.

A. Kaneko et al, Sapporo

β -Glucuronidase from human lung adenocarcinoma: Altered properties of heat stability related to the modified carbohydrate moiety.

M. Fujita et al, Sapporo

Sulfhydryl modification of β -hexosaminidase B in human lung cancer.

M. Narita et al, Sapporo

Cancer-associated changes in arylsulfatase of human leukemia cells.

Y. Uehara et al, Sapporo

Mn-SOD isozyme: Enzyme activity and immunoassay of human lung cancer tissues.

S. Iizuka & N. Taniguchi, Sapporo