

第 17 回 札幌国際がんシンポジウム

テーマ

“Cytoskeleton and G Proteins in the Regulation of Cancer”

日時

1997 年 7 月 8 日～10 日

会場

北海道大学 百年記念館（札幌市北区）

代表世話人

葛巻 暹（北海道大学）

The 17th Sapporo International Cancer Symposium

Theme:

“Cytoskeleton and G Proteins in the Regulation of Cancer”

Date:

July 8-10, 1997

Venue:

Hokkaido University Centennial Hall, Sapporo, Japan

Organizers (*Chairperson):

Noboru Kuzumaki*

Thomas P. Stossel

Avri Ben-Ze'ev

Hiroshi Murata

Yoshimi Takai

Shoichiro Tsukita

Michio Mori

Program:

Opening Remarks

Hiroshi Kobayashi

Noboru Kuzumaki

Session 1: Actomyosin and Cancer Regulation 1

Actin filament remodeling in mammalian cells

Thomas P. Stossel

Unconventional myosins as regulators and targets of Rho family GTPases

Martin Bahler

Session 2: Actomyosin and Cancer Regulation 2

Junctional plaque proteins and the control of tumorigenesis

Avri Ben-Ze'ev

Signaling through Ash/Grb2-control of the Ras pathway and cytoskeleton

Tadaomi Takenawa

Gelsolin and tumor suppression

Noboru Kuzumaki

Session 3: Adhesive Molecules and Cancer Regulation 1

The adenomatous polyposis coli (APC) tumor suppressor, catenins, and cancer

Paul Polakis

APC and its partners

Tetsu Akiyama

DCC: Linking tumorigenesis and cell guidance mechanisms?

Eric R. Fearon

Session 4: Adhesive Molecules and Cancer Regulation 2

Cell-cell adhesion molecules, underlying cytoskeletons, and signal transduction

Shoichiro Tsukita

Role of beta-catenin and c-erbB2 association in cancer invasion and metastasis

Setsuo Hirohashi

Roles of connexin genes in cell differentiation and carcinogenesis

Masahito Oyamada

Session 5: Rho family Proteins and Cancer Regulation 1

Signaling pathways controlled by the Rho GTPase family

Alan Hall

Rho effectors and their actions in reorganization of actin cytoskeleton

Shuh Narumiya

Session 6: Rho family Proteins and Cancer Regulation 2

Dynamic activation and action of Rho in regulation of actin cytoskeleton

Yoshimi Takai

Regulation of cytoskeleton and cell adhesion by the targets of the Rho family

GTPases

Kozo Kaibuchi

Cytoskeletal formation during cytokinesis in the fission yeast and the animal cells

Issei Mabuchi

Session 7: Poster Presentation

Phosphatidylinositol 4,5-bisphosphate phosphatase regulates the rearrangement of actin filaments

Toshiki Itoh

Characterization of gelsolin mutants that inhibit phospholipase C- γ 1 or actin depolymerization by gelsolin and cofilin

Hisakazu Fujita

Frequent loss of gelsolin expression in human non-small cell lung cancer

Hirotooshi Dosaka-Akita

Enhancement of G2 checkpoint function by gelsolin in human cancers

Norio Sakai

Gelsolin gene therapy by retrovirus producer cells for human bladder cancer in nude mice

Motoyoshi Tanaka

Inhibition of apoptosis by the actin-regulatory protein gelsolin

Makoto Ohtsu

Inhibition of apoptosis promotes peritoneal dissemination of gastric cancer cells

Atsushi Yawata

Cloning and expression of barmotin (7H6 antigen) elicit a novel mechanochemical motor at the tight junction

Yasuo Kokai

Functional analysis of rho1+ and rho2+ which encode the Rho type small GTP-binding proteins in the fission yeast

Kentaro Nakano

Session 8: Rho-signal transduction and cytoskeleton

Ras regulation of cell transformation, survival and cytoskeleton: Role of PI3-kinase and other effectors

Julian Downward

Isoprenylation-dependent and -independent interactions of Ras with its effectors

Tohru Kataoka

Role of the MAP kinase cascade in cell transformation and cell morphology

Eisuke Nishida

Session 9: Poster Presentation

Cytoskeletal modulation of cell volume regulation in human cervical cancer HT-3 cells

Cheng-Yang Chou

EGF receptor-mediated phosphorylation of stathmin

Anne C. Murphy

Decreased expression of a single tropomyosin isoform, TM5/TM30nm, results in reduction in motility of metastatic murine cell lines

Ryoko Miyamoto

Decreased messenger RNA expression of the DCC gene in human gastric cancer: its clinicopathological significance

Fumio Itoh

Tyrosine phosphorylation induced by crosslinking of a novel integrin regulating glycosylphosphatidylinositol-anchored glycoprotein in human neutrophils

Yu Yan

Cell adhesion kinase beta (CAKbeta) forms a complex with a new member, HIC-5, of protein localized at focal adhesions

Terukatsu Sasaki

Two autocrine factors stimulate the spreading and proliferation of the colon carcinoma cell line LIM1215

Antony W. Burgess

Small GTP-binding protein Rho stimulates actinomyosin system leading to transcellular migration of tumor cells

Kazuyuki Itoh

Regulation of human leukemic cell infiltration by Rho and Rho-GDI

Takeko Yamada

Essential role of Rac in ceramide-induced nuclear signaling

Jae-Hong Kim

Session 10: Development of new anti-cancer drugs 1

Farnesyltransferase inhibitors and anti-Ras therapy

Jackson B. Gibbs

Inhibition of RAS-transformation by SCH 51344

Chandra C. Kumar

Cytoskeletal tumor suppressors

H Murata

Session 11: Development of new anti-cancer drugs 2

Histone acetylation and Ras signaling: Molecular targets of cell cycle inhibitors that induce morphological differentiation in tumor cells

Minoru Yoshida

The role of MAP kinase in the taxane-induced cytotoxicity

Nagahiro Saijo

Reversion of ras transforming activity by azatyrosine

Susumu Nishimura

Summary of the Symposium

Thomas P. Stossel

Closing Remarks

Noboru Kuzumaki