

## 第 9 回 札幌国際がんシンポジウム

### テーマ

“Cell Differentiation and Cancer Control”

### 日時

1989 年 7 月 5 日～7 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

穂積 本男（埼玉がんセンター）

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## The 9th Sapporo International Cancer Symposium

### Theme:

“Cell Differentiation and Cancer Control”

### Date:

July 5-7, 1989

### Venue:

Century Royal Hotel, Sapporo, Japan

### Organizing Committee(\*Chairperson):

Bloch Alexander

Koeffler H. Philip

Saito Masaki

Takaku Fumimaro

Hozumi Motoo\*

Kobayashi Hiroshi

Pierce G Barry

Tarin David

Takeichi Noritoshi

**Program:**

**Session 1: Clinical Studies on Differentiation Therapy**

1) Leukemia

Novel vitamin D analogs that modulate leukemic growth and differentiation with little effect on either intestinal Ca<sup>++</sup> absorption or bone Ca<sup>++</sup> mobilization

H. P. Koeffler

Trials of differentiation therapy in myelodysplasias employing alfacalcidol and interferon gamma

Y. Yoshida

Differentiating agents in the treatment of leukemia and myelodysplastic syndromes

L. Degos

The mode of action of low dose Ara-C, and its clinical effectiveness in ANLL and atypical leukemia

H. Sawada

2) Oral Cancer and Head & Neck Cancer

Modulation by retinoic acid of growth and differentiation of human premalignant oral lesion and head and neck carcinoma cells

R. Lotan

**Session 2: Basic Studies on Differentiation of Leukemia Cells**

1) Mechanisms of Differentiation

Mechanism of induction of leukemic cell differentiation by DNA-specific agents

A. Bloch

Molecular mechanism of erythropoietin receptor-mediated erythroid cell differentiation

Y. Ikawa

Mechanism of differentiation of mouse erythroleukemia (MEL) and embryonal carcinoma (F9) cells: Is protein phosphorylation (dephosphorylation) at tyrosine residues involved in the differentiation processes?

M. Oishi

Retinoic acid-resistant HL-60 cells: a model for differentiation-inducer resistance as a clinical problem

R. E. Gallagher

Bioactive gangliosides: growth-inhibitory and differentiation-inducing activity toward human myelogenous leukemia cells

S. Kitagawa

## 2) Cytokines

Receptor-mediated action of factors able to induce differentiation in myeloid leukemic cells

N. A. Nicola

Effects of differentiation inducing factor (DIF), tumor necrosis factor (TNF) and lymphotoxin LT) on myeloid leukemic cells

I. Olsson

Interleukin 6 and oncogenesis of plasma-cytoma and/or myeloma

H. Hirano

Colony stimulating factors and their receptors: a comparison of normal and leukemic myeloid cells

J. D. Griffin

Characterization of the cellular receptors for erythroid differentiation factor

K. Miyazono

**Session 3: Differentiation Inducers and in Vivo Models for Differentiation of Leukemia Cells**

Retinoic acid: retinoylation and synergism in induction of differentiation

T. R. Breitman

New retinoids and retinoid receptors

K. Shudo

New inhibitors specific for gap phases in cell cycle and their effects on differentiation of cultured cells

T. Beppu

A mouse model for differentiation therapy of myeloid leukemia

Y. Honma

Involvement of activated oxygen radicals in the differentiation of a LPS-resistant subline of rat myelomonocytic leukemia

N. Takeichi

**Session 4: Progression and Differentiation of Tumor Cells**

Differentiation of the malignant cell and its relevance to the clinical manifestations of cancer

D. Tarin

Regulation of growth and differentiation of epidermal keratinocytes and their malignant counterparts

T. Kuroki

Differentiation and paraneoplastic syndromes, consequences for cancer control

J. C. Salomon

Cytoskeletal and extracellular matrix proteins during differentiation and tumorigenesis

G. A. Bannikov

Segregation of motile and stable domains in the cytoplasm; possible mechanism of morphological differentiation of normal and tumor cells

Yu. M. Vasiliev

**Session 5: Basic Studies on Differentiation of Solid Tumor Cells**

Mechanism of regulation of embryonal carcinoma cells by the blastocyst

G. B. Pierce

A retinoic acid-responsive gene found in the teratocarcinoma system specifies a novel polypeptide of developmental significance

T. Muramatsu

Modulation of growth and differentiation of colon cancer cells: Butyrate induction of alkaline phosphatase and CEA-related antigens

Y. S. Kim

Neuronal phenotypic expression in a neoplastic human salivary intercalated duct cell line or its derivatives and effect of nerve growth factor on the cellular proliferation and differentiation

M. Sato

Regulation of alpha-fetoprotein synthesis in mouse hepatocytes in vitro

G. Abelev

Control of differentiation and growth of normal, neonatal and cancerous hepatocytes in culture

A. Ichihara

## **Poster session**

Differentiation therapy in leukemia and myelodysplastic Syndrome

N. Tsuruoka

Differentiation therapy of patients with acute leukemia

K. Sanpi

Probability of commitment of murine erythroleukemia cells is determined by c-myc level

M. Obinata

Sulfhydryl group as a possible target of herbimycin A for the inactivation of src family tyrosine kinases

Y. Uehara

Oncogene expression of mouse myeloblastic and monocytic leukemia variant cell lines with different leukemogenic potential

T. Kasukabe

Intracellular and extracellular myeloperoxidases of human myeloid leukemia HL-60 cell cultures

M. Yamada

Vitamin D3 and interleukin 6: potent inducers of myeloid leukemia cell differentiation

C. Miyaura

Regulation by cytokines of proliferation and differentiation of myeloid leukemia cells

M. Hozumi

Macrophage DIF purified from a conditioned medium of monocytic leukemia THP-1 cells

T. Sato

Differentiation inducing activity of EDF/activin on erythroleukemia cells: in vitro and in vivo studies

Y. Eto

Differentiation inducing activity of TNF and modification of its activity in human myelogenous leukemic cells

K. Takeda

Differentiation effect of a rat bone marrow preadipocyte cell line (REC 16) on a rat myelomonocytic leukemia cell line (c-WRT-7)

S. Okamura

TNF is an endogenous signal to modulate 12-O-tetradecanoyl-phorbol-13-acetate (TPA)-induced differentiation of human myeloblastic leukemia (ML-1) cell line

Y. Fujii

Synthetic amphipathic sialo-compounds as inducers of differentiation of human myelogenous leukemia cells

M. Saito

Pertussis toxin inhibits retinoic acid-induced differentiation of a human promyelocytic leukemia cell line HL-60

H. Henmi

Expression of the transfected IL-3 gene results in autonomous growth of murine myeloid IL-3-dependent cell line (NFS-60)

K. Hara

Regulation of the expression of vimentin gene during differentiation of mouse myeloid leukemia cells

K. Nagata

Effect of interleukin-4 (IL-4) on murine multipotential hematopoietic progenitors

K. Kishi

Differential expression of N-myc and c-src proto-oncogenes during neuronal and schwannian differentiation of human neuroblastoma cells

T. Sugimoto

Growth inhibition of stomach cancer cell lines by 8-cl-cAMP

A. Takanashi

Effects of alkyl-glycerolipids on growth and differentiation of human lung cancer cells

K. Sasajima

A human Tcell differentiation model based on functional and molecular analysis of leukemia cell lines: TCR cell lines

T. Ariyasu

Characterization and properties of a new cell line (XTY) derived from the tumor of *Xenopus laevis*

M. Asashima

Shedding of tumor associated antigen (CE7) of rat fibrosarcoma cells associated with tumor cell-growth

H. Kobayashi