

## 第 16 回 札幌国際がんシンポジウム

### テーマ

“Molecular Mechanisms for Inflammation-promoted Pathogenesis of Cancer”

### 日時

1996 年 7 月 3 日～5 日

### 会場

北海道大学 百年記念館（札幌市北区）

### 代表世話人

細川 眞澄男（北海道大学）

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## The 16th Sapporo International Cancer Symposium

### Theme:

“Molecular Mechanisms for Inflammation-promoted Pathogenesis of Cancer”

### Date:

July 3-5, 1996

### Venue:

Centennial Hall, Hokkaido University, Sapporo, Japan

### Organizers (\*Chairperson):

Masuo Hosokawa\*

Hiroshi Kobayashi

Hiroshi Ohshima

Fujiro Sendo

Robert S. Kerbel

Hiroshi Maeda

Julie Parsonnet

**Program:**

**Opening Remarks**

Hiroshi Kobayashi

Masuo Hosokawa

**Session I: Keynote Lecture**

Chronic stimuli, inflammation and cancer

Takashi Sugimura

Microbes and malignancy

Julie Parsonnet

**Session II: Microbial Infection and Cancer:**

Epstein-Barr virus and gastric carcinoma

Toyoro Osato

Epstein-Barr virus and gastric cancer

Masayoshi Tokunaga

Helicobacter pylori and gastric cancer

Julie Parsonnet

Helicobacter pylori and gastric cancer in Japan

Masahiro Asaka

The synthesis of N-nitrosodimethylamine during immune responses to liver fluke antigens

Soisungwan Satarug

Schistosomiasis and bladder cancer

Wagida A. Anwer

**Session III: Experimental Models for Cancer Caused by Inflammation**

Extensive oxidative DNA damage in hepatocytes of transgenic mice with chronic active hepatitis destined to develop hepatocellular carcinoma

Stephan Christen

Hepatocellular carcinoma after spontaneously developed hepatitis in LEC rats

Michio Mori

Reduced expression of liver antioxidative enzyme in LEC rats predisposed to hepatitis and hepatoma

Tetsuya Moriuchi

Escherichia coli-induced urinary bladder cancer in rats

Ryoichi Oyasu

**Session IV: Role of Inflammatory Cytokines in Carcinogenesis**

Maintenance and termination of the premalignant and dormant phenotype in human cutaneous melanoma: Are inflammatory cytokines involved?

Robert S. Kerbel

Malignant progression of a rat mammary tumor cell line by growth factors involved in inflammation

Junichi Hamada

Expression and function of interleukin-1 alpha and granulocyte macrophage-colony stimulating factor in multi-stage carcinogenesis

Fredika M. Robertson

Regulation of antioxidant enzymes by inflammatory cytokines

Naoyuki Taniguchi

Role of cytokines in cancer cachexia

Kouji Matsushima

**Session V: Role of Oxygen Radicals in Carcinogenesis**

Possible role of nitric oxide as a DNA-modification-factor in carcinogenesis

Hiroshi Ohshima

Generation of superoxide, nitric oxide and formation of peroxynitrite in viral and bacterial infections

Hiroshi Maeda

3-Nitrotyrosine as a biomarker of inflammation-mediated nitration

Mark K. Shigenaga

Tumor progression promoted by inflammatory cell-derived oxygen radicals in mice

Futoshi Okada

Role of iron and iron-derived oxygen radicals in renal carcinogenesis

Shigeru Okada

Oxidative DNA damage and carcinogenesis

Hiroshi Kasai

**Session VI: Poster Discussion**

Effects of KAI1 gene on in vitro invasion and metastasis of colon cancer cells

Akinori Takaoka

Suppression of matrilysin expression resulted in decreased invasive ability in human gastrointestinal cancers

Fumio Itoh

Goblet cell mucin profile as a marker of increased proliferation of epithelial cells in ulcerative colitis colon

Toshifumi Ashida

Characteristics of p53 mutations and submucous inflammatory changes in oral squamous cell carcinomas and precancerous lesions of betel chewers in Sri Lanka

Itsuo Chiba

Changing pattern of Schistosomiasis-related bladder carcinoma, relation to pathological, cytological parameters and p53 expression

Wagida A. Anwer

A brain model to study the interaction between inflammation and tumor cell migration

Lois A. Lampson

Suppression of inflammatory-cell-mediated tumor progression of murine repressor tumor cells by transfection with manganese superoxide dismutase cDNA

Kazumoto Nakai

Alternative pathways involved in induction and suppression of nitric oxide synthase II gene in macrophages and vascular smooth muscle cells

Junichi Fujii

Suppression of colon carcinogenesis by  $\omega$ 3 polyunsaturated fatty acid, Docosahexaenoic acid

Keiji Wakabayashi

Gamma-tocopherol complements the antioxidant activity of alpha-tocopherol by trapping electrophiles such as reactive nitrogen oxide species

Stephan Christen

Participation of microenvironmental tumor stromal reactions in the augmented antitumor activity of immunotherapy

Tomoyuki Tabata

Inhibition of exogenous and endogenous liver carcinogenesis by N-(4-hydroxyphenyl) retinamide in rats

Dai Nakae

**Session VII: Inhibition of carcinogenesis by Anti-inflammatory Agents**

Cancer chemoprevention with antioxidants

Charles W Boone

Prevention of inflammation-promoted skin tumorigenesis by tea and ginger extracts

Hasan Mukhtar

Role of inflammation on AOM-induced rat colon carcinoma: Effects of apple-pectin on AOM-induced colon carcinoma in rats

Kenji Tazawa

Prevention of oxidative DNA damage and carcinogenesis by anti-inflammatory agents in the liver of rats

Yoichi Konishi

The triggering and healing of tumor stromal inflammatory reactions to prevent cancer progression –Roles of oxidative versus reductive macrophages–

Junji Hamuro

**Summary of the Symposium**

Julie Parsonnet

**Closing Remarks**

Masuo Hosokawa