PRINCESS TAKAMATSU CANCER RESEARCH FUND

INTERNATIONAL SYMPOSIA

1st (1970) **Recent Advances in Human Tumor Virology and Immunology**
Waro Nakahara, Kusuya Nishioka, Takeshi Hirayama and Yohei Ito

2nd (1971) **Topics in Chemical Carcinogenesis**
Waro Nakahara, Shozo Takayama, Takashi Sugimura and Shigeyoshi Odashima

3rd (1972) **Analytic and Experimental Epidemiology of Cancer**
Waro Nakahara, Takeshi Hirayama, Kusuya Nishioka and Haruo Sugano

4th (1973) **Differentiation and Control of Malignancy of Tumor Cells**
Waro Nakahara, Tetsuo Ono, Takashi Sugimura and Haruo Sugano

5th (1974) **Host Defense against Cancer and Its Potentiation**
Goro Chihara, Fumiko Fukuoka, Denichi Mizuno, Tadashi Yamamoto and Yuichi Yamamura

6th (1975) **Fundamentals in Cancer Prevention**
Peter N. Magee, Taijiro Matsushima, Takashi Sugimura and Shozo Takayama

7th (1976) **Pathophysiology of Carcinogenesis in Digestive Organs**
Emmanuel Farber, Takashi Kawachi, Takeo Nagayo, Haruo Sugano, Takashi Sugimura and John H. Weisburger

8th (1977) **Advances in Cancer Chemotherapy**
Stephen K. Carter, Abraham Goldin, Kazuo Kuretani, Georges Mathe, Yoshio Sakurai, Shigeru Tsukagoshi and Hamao Umezawa

9th (1978) **Naturally Occurring Carcinogens-Mutagens and Modulators of Carcinogenesis**
Iwao Hirono, Elizabeth C. Miller, James A. Miller, Takashi Sugimura and Shozo Takayama

10th (1979) **Genetic and Environmental Factors in Experimental and Human Cancer**
Harry V. Gelboin, Brian MacMahon, Taijiro Matsushima, Takashi Sugimura, Shozo Takayama and Hiraku Takebe

11th (1980) **Phyletic Approaches to Cancer**
Clyde J. Dawe, John C. Harshbarger, Sohei Kondo, Takashi Sugimura and Shozo Takayama

12th (1981) **Primary and Tertiary Structure of Nucleic Acids and Cancer Research**
Masanao Miwa, Susumu Nishimura, Alexander Rich, Dieter G. Soll and Takashi Sugimura

13th (1982) **ADP-ribosylation, DNA Repair and Cancer**
Osamu Hayaishi, Masanao Miwa, Sydney Shall, Mark Smulson and Takashi Sugimura

14th (1983) **Cellular Interactions by Environmental Tumor Promoters**
Hirota Fujiki, Erich Hecker, Richard E. Moore, Takashi Sugimura and I. Bernard Weinstein

15th (1984) **Retroviruses in Human Lymphoma/Leukemia**
Masanao Miwa, Haruo Sugano, Takashi Sugimura and Robin A. Weiss

16th (1985) **Diet, Nutrition and Cancer**
Yuzo Hayashi, Minako Nagano, Takashi Sugimura, Shozo Takayama, Lorenzo Tomatis, Lee. W. Wattenberg and Gerald N. Wogan

17th (1986) **Oncogenes and Cancer**
Stuart A. Aaronson, J. Michael Bishop, Takashi Sugimura, Masaaki Terada, Kumao Toyoshima and Peter K. Vogt

18th (1987) **Unusual Occurrences as Clues to Cancer Etiology**
Joseph F. Fraumeni, Jr., Robert W. Miller, Haruo Sugano, Takashi Sugimura, Shozo Takayama and Shaw Watanabe

19th (1988) **Immune System and Cancer**
Toshiyuki Hamaoka, Richard J. Hodes, George Klein, Takashi Sugimura, Shozo Takayama and Yuichi Yamamura

20th (1989) **Genetic Basis for Carcinogenesis: Tumor Suppressor Genes and Oncogenes**
Alfred G. Knudson, Jr., Eric J. Stanbridge, Takashi Sugimura, Masaaki Terada and Shaw Watanabe

21st (1990) **Xenobiotics and Cancer: Implications for Chemical Carcinogenesis and Cancer Chemotherapy**
Lars Ernster, Hiroyasu Esumi, Yoshiaki Fujii, Harry V. Gelboin, Ryuichi Kato and Takashi Sugimura

22nd (1991) **Multistage Carcinogenesis**
Curtis C. Harris, Setsuo Hirohashi, Nobuyuki Ito, Henry C. Pitot, Takashi Sugimura, Masaaki Terada and Jun Yokota

23rd (1992) **Heterocyclic Amines in Cooked Foods: Possible Human Carcinogens**
Richard H. Adamson, Jan-Åke Gustaffson, Nobuyuki Ito, Minako Nagao, Takashi Sugimura, Keiji Wakabayashi and Yasushi Yamazoe

24th (1993) **Molecular and Cellular Basis for Cell to Cell Interaction: Its Significance in Cancer**
Setsuo Hirohashi, Harold L. Moses, Erkki Ruoslahti, Takashi Sugimura, Masatoshi Takeichi and Masaaki Terada

25th (1994) **Hepatitis C Virus and Its Involvement in the Development of Hepatocellular Carcinoma**
Kenichi Kobayashi, Robert Purcell, Kunitada Shimotohno and Edward Tabor

26th (1995) **Genomic Instability and Carcinogenesis**
Setsuo Hirohashi, Lawrence A. Loeb, Takashi Sugimura, Masaaki Terada and Thea D. Tlsty

27th (1996) **Fundamentals of Cancer Prevention**
Allan H. Conney, Nobuyuki Ito, Takashi Sugimura, Masaaki Terada, Keiji Wakabayashi and I. Bernard Weinstein

28th (1997) **Cancer Genomics**
Carlo M. Croce, Yusuke Nakamura, Misao Ohki, Takashi Sugimura, Masaaki Terada and Raymond L. White

29th (1998) **Molecular Basis for Invasion and Metastasis**
Isaiah J. Fidler, Yoshiro Niitsu, Motoharu Seiki, Takashi Sugimura and Jun Yokota

30th (1999) **New Frontiers in Mechanistic Cancer Research in Animal Models**
Samuel M. Cohen, Okio Hino, Takatoshi Ishikawa, Hitoshi Nakagama, Tomoyuki Shirai and Takashi Sugimura

31st (2000) **DNA Methylation and Cancer**

Setsuo Hirohashi, Peter A. Jones, Masanao Miwa, Hideyuki Saya and Toshikazu Ushijima

32nd (2001) **Basic and Clinical Research on Tumor Makers**

Ken Yamaguchi, J. Carl Barrett, John E. Shively, Kozo Imai and Tadao Kakizoe

33rd (2002) **Innovative Achievements in Cancer Imaging**

Tadao Kakizoe, Pablo R. Ros, Yuji Itai and Noriyuki Moriyama

34th (2003) **Cancer Immunotherapy**

Kumao Toyoshima, J. Carl Barrett, Eva Klein, Yoshiyuki Hashimoto and Hiro Wakasugi

35th (2004) **Current Challenges and Novel Approaches to Modern Cancer Drug Discovery and Development**

Susumu Nishimura, Jackson B. Gibbs, Hiroyasu Esumi, Nagahiro Saijo and Takashi Tsuruo

36th (2005) **Developments in Cancer Epidemiology**
- Prospects for Cancer Control in the Asian Pacific

Suketami Tominaga, Malcolm A. Moore, Kazuo Tajima and Shoichiro Tsugane

37th (2006) **Cancer Microenvironments**

Hiroyasu Esumi, Harold L. Moses, Setsuo Hirohashi and Kohei Miyazono

38th (2007) **Current Challenges in the Understanding and Management of Colon Cancer**

Hitoshi Nakagama, William F. Dove, Hideki Mori and Keiji Wakabayashi

39th (2008) **Metabolic Syndrome: Carcinogenesis and Prevention**

Keiji Wakabayashi, Walter C. Willett, Takashi Kadowaki and Shoichiro Tsugane

40th (2009) **DNA Repair and Human Cancers**

Susumu Nishimura, Lawrence A. Loeb, Mitsuko Masutani, Hitoshi Nakagama and Takao Sekiya

LECTURES

1st (1981) **Arthur C. Upton**
The Role of DNA Damage in Radiation and Chemical Carcinogenesis
Evolving Perspectives on the Causes and Prevention of Cancer

2nd (1982) **James A. Miller**
Studies on the Metabolic Activation of Naturally Occurring Carcinogens: Alkenylbenzene Derivatives and Ethyl Carbamate

Elizabeth C. Miller
Metabolic Activation and DNA Adducts of Chemical Carcinogens

3rd (1983) **Sir Richard Doll**
The Prevention of Cancer: Practical Prospects

4th (1984) **Bruce N. Ames**
Dietary Carcinogens and Anticarcinogens: Oxygen Radicals and Degenerative Diseases

5th (1985) **Manfred F. Rajewsky**
Carcinogenesis in the Developing Nervous System: Molecular and Cellular Aspects

6th (1986) **George Klein**
Multistep Scenarios in Tumor Development

7th (1987) **Henry C. Pitot**
Quantitative Studies of Multistage Hepatocarcinogenesis

8th (1988) **Brian MacMahon**
Prevention of Cancer: Role of Epidemiology

9th (1989) **Pelayo Correa**
The Cause of Gastric Cancer: A Multidisciplinary Approach

10th (1990) **Arthur B. Pardee**
Molecular Studies of Cellular Growth Control

Ruth Sager
Tumor Suppressor Genes

11th (1991) **Sir Michael Stoker**
1. Cytokine Regulation of the Movement of Normal Cells and Tumor Cells
2. Contact Suppression of Tumor Cells

12th (1992) **Lorenzo Tomatis**
The Varying Emphasis over Time on the Role of Environmental Risks for Human Cancer

13th (1993) **Lee W. Wattenberg**
Chemoprevention of Cancer

14th (1994) **Allan H. Conney**
Inhibitory Effects of Dietary Chemicals on Carcinogenesis

15th (1995) **Peter K. Vogt**
Transcriptional Control and Cancer

16th (1996) **Alfred G. Knudson, Jr.**
Hereditary Cancer

17th (1997) **Inder M. Verma**

Gene Therapy: Progress and Problems

18th (1998) **Philop C. Hanawalt**

DNA Repair and Human Genetic Disease

19th (1999) **Harald zur Hausen**

Virus-linked Carcinogenesis: a Wide Spectrum of Differnat Mechanistic Contributions

20th (2000) **Gerald N. Wogan**

1. Genotoxicity of Nitric Oxide: Evidence from *in vitro* and *in vivo* Models
2. Aflatoxin as a Human Liver Carcinogen: a Paradigm for Molecular Epidemiology

21st (2001) **Robert A. Weinberg**

Genetic Rules Governing Human Cancer Cell Formation

22nd (2002) **Curtis C. Harris**

1. p53, Inflammation, and Cancer
2. Molecular Epidemiology of Human Cancer
3. Gene-environment Interactions of Cancer

23rd (2004) **Kenneth Olden**

Toxicogenomics: New Tools for Studying Pathways to Disease

24th (2004) **Andrew C. von Eschenbach**

The Future: a Time When No One Suffers or Dies from Cancer

25th (2005) **Lawrence A. Loeb**

1. Creation of Enzymes for Biochemistry in Cancer Gene Therapy
2. Mutator Phenotype in Cancer
3. Mutations in Cancer and Aging

26th (2006) **Steven R. Tannenbaum**

The Role of Nitric Oxide in the Pathophysiology of Cancer

27th (2007) **Mary-Claire King**

Genomic Analysis of Inherited Breast and Ovarian Cancer

28th (2008) **Mary J. C. Hendrix**

Reprogramming Metastatic Tumor Cells with an Embryonic Microenvironment: Convergence of Embryonic and Tumorigenic Signaling Pathways

29th (2009) **Jan-Åke Gustafsson**

Nuclear Receptors and Cancer

PRINCESS TAKAMATSU CANCER RESEARCH FUND PRIZES

1st (1968) **Masaru Kuru**
Studies of Premalignant Changes in Gastric Cancer

Waro Nakahara
Discovery of Toxohormone and a Carcinogenic Property of 4-nitroquinoline N-oxide

2nd (1969) **Takashi Sugimura**
Experimental Induction of Gastric Cancer

3rd (1970) **Takeo Kakunaga, Juntaro Kamahora, Toshio Kuroki and Haruo Sato**
In vitro Carcinogenesis in Hamster Cells Using 4-nitroquinoline N-oxide

4th (1974) **Mitsuru Furusawa, Motoo Hozumi, Yasuo Ichikawa, Yoji Ikawa and Haruo Sugano**
Redifferentiation of Leukemia Cells

5th (1975) **Hiroto Shimojo and Kumao Toyoshima**
Analysis of the Carcinogenesis of Mutant Strains of Tumor Virus

6th (1976) **Sajiro Makino**
Chromosome Analysis and Cancer Cells

Hamao Umezawa
Secondary Metabolites of Microorganisms and Cancer

7th (1977) **Hiroshi Hasegawa**
Surgery for Hepatic Carcinoma

8th (1978) **Yuichi Yamamura**
Biochemistry of Cancer Hosts and Cell Interactions

9th (1979) **Shigeto Ikeda**
Development of the Bronchoscope for Lung Cancer

Yorio Hinuma and Shiro Kato
Herpes Virus and Cancer

10th (1980) **Iwao Hirono, Takashi Kawachi, Taijiro Matsushima, Minako Nagao, Shigeyoshi Odashima and Shozo Takayama**
Naturally Occurring Carcinogens

11th (1981) **Hirota Fujiki and Sohei Kondo**
Initiators and Promoters in Carcinogenesis

12th (1982) **Ryo Sato**
Discovery of Cytochrome P-450

Ryuichi Kato
Pharmacology and Cytochrome P-450

13th (1983) **Yorio Hinuma, Isao Miyoshi, Kiyoshi Takatsuki and Mitsuaki Yoshida**
Etiology and Molecular Biology of Adalt T-cell Leukemia

14th (1984) **Yoshiyuki Hashimoto, Nobuyuki Ito, Tadao Kakizoe, Masashi Okada and Osamu Yoshida**
Experimental Bladder Cancer

15th (1985) **Yukio Shimosato**
Pathology and Biology of Human Lung Cancer

16th (1986) **Kenichi Matsu bara, Masaaki Terada and Tadashi Yamamoto**
Molecular Biological Studies on Novel Oncogenes

17th (1987) **Tamaki Kajitani and Keiichi Suemasu**
Contribution to the Improvement of Surgical Treatment for Cancer

18th (1988) **Toju Hata and Shigetoshi Wakaki**
Studies on Anti-cancer Agent Mitomycin

Prize of the Princess Takamatsu Cancer Research Fund for Special Occasion of the 20th Anniversary (1988)

Susumu Nishimura, Eiko Ohtsuka and Sung-Hou Kim
Determination of Three-dimensional Structure of c-Ha-*ras* Oncogene Product, P21 Protein

19th (1989) **Keishi Matsumoto**
Molecular Mechanisms Involved in Sex Hormone-induced Growth of Cancer Cells

Sadaaki Kawai
Genetic and Molecular Biology of Avian Retroviruses

20th (1990) **Yoshio Sakurai and Takashi Tsuruo**
Molecular Mechanisms of Anti-cancer Drug Resistance in Cells and Implications of Therapy

Toshio Takahashi
Improved End-results among Cancer Patients Using Selective Cancer Treatments

21st (1991) **Akira Ichihara and Toshikazu Nakamura**
Hepatocyte Growth Factor in Relation to Liver Regeneration and Carcinogenesis

Mitsuyuki Abe and Yoichiro Umegaki
Contribution to Development in the Field of Radiation Therapy, Including Direct View Intraoperative Irradiation

22nd (1992) **Yusuke Nakamura, Makoto Noda, Mitsuo Oshimura, Takao Sekiya and Jun Yokota**
New Approaches to Studies on Tumor-suppressor Genes in Cancers

Tetsuichiro Muto and Kyosuke Ushio
Natural History of Colorectal Cancer and Its Clinical Significance

23rd (1993) **Yoshiaki Ito and Misao Ohki**
The Gene and Its Product Responsible for Acute Myclocytic Leukemia with T(8:21)

Hikoo Shirakabe and Heizaburo Ichikawa
Development of Double Contrast Radiography for Gastrointestinal Cancers

24th (1994) **Masatoshi Takeichi, Setsuo Hirohashi and Shoichiro Tsukita**
Discovery of Cadherin-catenin System for Cell Adhesion and Its Abnormality in Cancer

Isaburo Fujimoto and Aya Hanai
Establishment of Population based Cancer Registry and Its Use for Epidemiological Studies on Cancer

25th (1995) **Tadatsugu Taniguchi**
Interferon Regulatory Factors and Molecular Mechanism of Carcinogenesis

Kazuyuki Ishihara
Treatment of Melanoma among Japanese

26th (1996) **Hiroshi Maeda**
Tumor Selective Drug Targeting with Macromolecular Anticancer Agents

Tsuguo Naruke
The Improvement of Survival and Quality of Life in Lung Cancer Patients

27th (1997) **Shigekazu Nagata and Shin Yonehara**
Discovery of Fas Antigen and Elucidation of Molecular Mechanism of Apoptosis

Yuji Nimura
Establishment of Radical Operation for Hilar Cholangiocarcinoma

28th (1998) **Yukihiko Kitamura**
Role of C-*kit* in Growth, Differentiation and Malignancy of Mast Cells and Interstitial Cells of Cajal

Satoshi Ebihara
Development of Surgical Treatment with Preservation of Function for Head and Neck Cancers

29th (1999) **Kohei Miyazono**
Mechanisms of Cell Growth Regulation and Transformation by TGF-β

Ken Yamaguchi
Development of Tumor Marker "ProGRP" for Small Cell Lung Carcinoma

30th (2000) **Yoichi Konishi**
Studies on Experimental Pancreatic Cancer

Masanori Shimoyama
Contribution to the Establishment of High-quality Clinical Cancer Chemotherapy

31st (2001) **Yoichi Taya**
The Biological Significance of Phosphorylation of the Tumor Suppressor RB Protein and p53

Kazuo Tajima, Shigeo Hino and Shunro Sonoda
Prevention of Mother-to-Child Transmission of Adult T-cell Leukemia Virus (HTLV-1) by Avoiding Breast Feeding

32nd (2002) **Okio Hiono**
Molecular Mechanism of Hereditary Rat Renal Cancer

Tetsuhiko Shirasaka
A Novel Cancer Chemotherapy by Biochemical Modulation of 5-Fluorouracil

33rd (2003) **Shizuo Akira**
Rols of Toll-like Receptors in Cancer Immunotherapy

Akihiro Kaneko
Eye-preservation Therapy for Ophthalmic Malignant Tumors

34th (2004) **Yoshiro Niitsu, Hideki Mori and Keiji Wakabayashi**
The Studies of Colon Cancer Causative and Preventive Agents

Yasuo Hirao and Hirohiko Tsujii
Development of Heavy Iron Therapy Facility for Cancer Treatment and Its Clinical Application

35th (2005) **Tetsuya Kamataki and Yoshiaki Fujii**
Role of Cytochrome P450 in Chemical Carcinogenesis and Its Gene Regulation

Noriyuki Moriyama
The Studies of Development of Helical Computed Tomography

36th (2006) **Hiroyasu Esumi**

Discovery of Novel Anti-cancer Agents Focusing on Cancer Cell Adaptation to Oxygen and Nutrient Deprived Microenvironment

Masae Tatematsu and Fumihiro Hirayama

Experimental Studies on Gastric Carcinogenesis and Prevention using *Helicobacter Pylori* Infected Mongolian Gerbils

37th (2007) **Masabumi Shibuya**

Isolation of Angiogenic Factor Receptor and Research on the Molecular Basis of Tumor Growth and Metastasis

Kazumasa Miki

Development of the Effective Gastric Cancer Screening System Using the Serum Pepsinogen Level

38th (2008) **Akira Nakagawara**

Unveiling Molecular Mechanisms of Carcinogenesis, Aggressive Behavior and Spontaneous Regression as Well as Construction of Novel Systems for Predicting Prognosis in Neuroblastoma

Naomi Uemura and Masahiro Asaka

A Study on Prevention of Secondary Gastric Cancer by Eradication of *Helicobacter Pylori*

NAKAHARA MEMORIAL LECTURE PRIZES

1st (2004) **Yusuke Nakamura**

Cancer Genomics; from Bench to Bed

2nd (2005) **Brian E. Henderson**

Genetic Determinants of Breast, Prostate and Colorectal Cancer in a Multiethnic Cohort

3rd (2006) **Harold L. Moses**

TGF-β Regulation of Stromal-epithelial Interactions in Carcinoma Initiation and Progression

4th (2007) **William F. Dove**

Basic and Applied Issues in Colon Cancer Studied in the Min Mouse and Pirc Rat Kindreds

5th (2008) **Walter C. Willett**

Causes of the Metabolic Syndrome and Cancer

6th (2009) **Samuel H. Wilson**

Cancer and DNA Repair

AACR PRINCESS TAKAMATSU MEMORIAL LECTURE PRIZE

1st (2007) **Webster K. Cavenee**

Targeting Defective Receptors in Human Brain Cancer: Mechanisms and Therapeutic Opportunities

2nd (2008) **Lawrence A. Loeb**

Human Cancers Exhibit a Mutator Phenotype: Origin and Consequences

3rd (2009) **Curtis C. Harris**

Inflammation and Cancer: Interweaving microRNA, Inflammatory Cytokine, and p53 Pathways