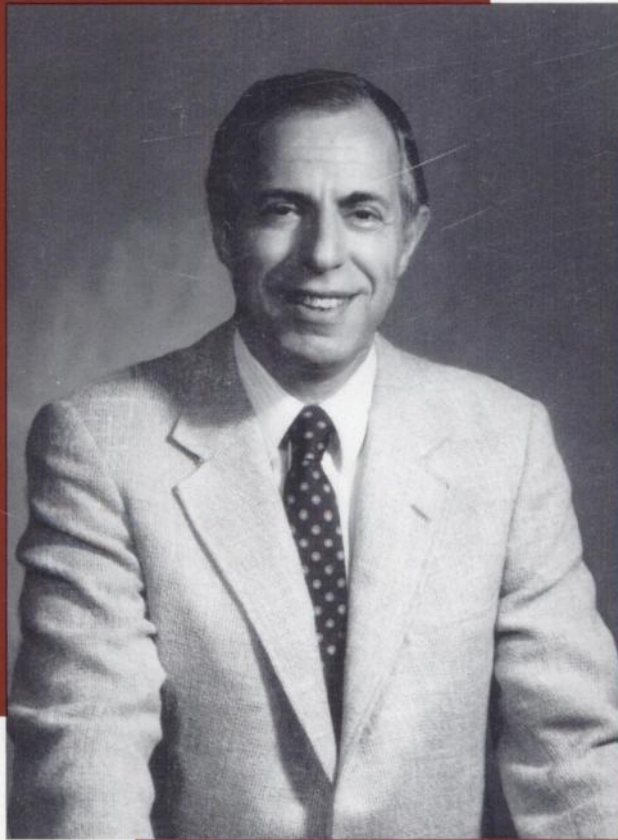




# Cancer Research

AN OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH



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## AMERICAN ASSOCIATION FOR CANCER RESEARCH SCIENTIFIC CONFERENCES

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**NOVEMBER 7-11, 1994**

***Modern Developments in Cancer  
Therapeutics***

Joint Meeting with Academia Sinica  
Chairpersons: Yung-chi Cheng, New Haven, CT;  
Cheng-Wen Wu, Taipei, Taiwan  
Academia Sinica, Taipei, Taiwan, R.O.C.

**NOVEMBER 29-DECEMBER 4, 1994**

***Translational Research in Cancer:  
New Opportunities for Progress***

Chairperson: Carlo M. Croce, Philadelphia, PA  
Grove Park Inn, Asheville, NC

**DECEMBER 8-13, 1994**

***Basic and Clinical Aspects of  
Prostate Cancer***

Chairperson: Donald S. Coffey, Baltimore, MD  
Marriott's Rancho Las Palmas Resort, Rancho  
Mirage (Palm Springs), CA

**JANUARY 14-19, 1995**

***Mechanism of Action of Retinoids,  
Vitamin D, and Steroid Hormones***

Chairpersons: Michael B. Sporn, Bethesda, MD;  
Ronald M. Evans, San Diego, CA; David  
Mangelsdorf, Dallas, TX  
Whistler Resort and Conference Centre, Whistler,  
B.C., Canada

**FEBRUARY 13-18, 1995**

***Molecular Biology of Cancer: Implications  
for Prevention and Therapy***

Joint Meeting with Japanese Cancer Association  
Chairpersons: Lee W. Wattenberg, Minneapolis,  
MN; Masaaki Terada, Tokyo, Japan  
Maui Marriott Hotel, Maui, HI

**MARCH 19-22, 1995**

***86th Annual Meeting***

Chairperson: Donald S. Coffey, Baltimore, MD  
Metro Toronto Convention Centre, Toronto,  
Ontario, Canada  
(Abstract Deadline: October 14, 1994)

**APRIL 1-6, 1995**

***Signal Transduction of Normal  
and Tumor Cells***

Chairperson: Anthony J. Pawson, Toronto,  
Ontario, Canada  
Banff Centre, Banff, Alberta, Canada

**OCTOBER 1995**

***Cytokines and Cytokine Receptors***

Chairperson: Steven Gillis, Seattle, WA  
Location to be Announced

**NOVEMBER 5-9, 1995**

***Cancer: The Interface Between  
Basic and Applied Research***

Chairpersons: Bert Vogelstein, Baltimore, MD;  
Stephen H. Friend, Charlestown, MA; and  
John D. Minna, Dallas, TX  
Stouffer Harborplace Hotel, Baltimore, MD

**DECEMBER 2-6, 1995**

***The Molecular Basis of  
Gene Transcription***

Chairperson: Tom Curran, Nutley, NJ  
Location to be Announced

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AACR members will receive brochures on the  
above special conferences as soon as they are  
available. Nonmembers should call or write:

American Association for Cancer Research  
Public Ledger Building, Suite 816  
150 South Independence Mall West  
Philadelphia, PA 19106-3483  
215-440-9300 • 215-440-9313 (FAX)

# MODERN DEVELOPMENTS IN CANCER THERAPEUTICS

Joint Conference of the  
American Association for Cancer Research  
and the  
Institute of Biomedical Sciences (Taiwan)



November 7-11, 1994  
Academia Sinica, Taipei, Taiwan



IBMS

## ORGANIZING COMMITTEE

### AACR

**Yung-Chi Cheng** / New Haven  
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**Bruce A. Chabner** / Bethesda  
Co-Chairperson  
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**Wen-Kuang Yang** / Taipei  
**Winston C. Y. Yu** / Taipei

## SCIENTIFIC PROGRAM

### Drug Discovery

\***J. K. Lin** / Taipei  
\***Bruce A. Chabner** / Bethesda  
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### Experimental Therapeutics

\***Robert L. Capizzi** / Philadelphia  
\***Wendell Wierenga** / Ann Arbor  
**Felicia Y.-H. Wu** / Taipei  
**Shuen-Kuei Liao** / Tao-Yuan  
**Susan B. Horwitz** / Bronx  
**Napoleone Ferrara** / S. San Francisco  
**Rui Han** / Beijing  
**Edward Chu** / Bethesda

### Drug Resistance

\***Susan B. Horwitz** / Bronx  
\***Ming-Ching Shen** / Taipei  
**Chuck C.-K. Chao** / Tao-Yuan  
**Takashi Tsuruo** / Tokyo  
**Joseph R. Bertino** / New York  
**John A. Hickman** / Manchester  
**Susan P. C. Cole** / Kingston  
**Yves Pommier** / Bethesda

### Tumor Biology

\***Ming-Ta Hsu** / Taipei  
\***Edward Bresnick** / Hanover  
**Pei-Jer Chen** / Taipei  
**Cheng-Po Hu** / Taipei  
**Thea D. Tlsty** / Chapel Hill  
**Wen-Hwa Lee** / San Antonio  
**Chawshang Chang** / Madison  
**Lothar Schweigerer** / Heidelberg

### Gene Therapy and Vaccines

\***Joseph R. Bertino** / New York  
\***Ding-Shinn Chen** / Taipei  
**Lih-Hwa Hwang** / Taipei  
**Wen-Kuang Yang** / Taipei  
**Drew M. Pardoll** / Baltimore  
**Alan Gewirtz** / Philadelphia  
**Leaf Huang** / Pittsburgh  
**J. Martin Brown** / Stanford

### Novel Therapy

\***Andrew T. Huang** / Taipei  
\***Paul P. Carbone** / Madison  
**Yao-Chang Chen** / Taipei  
**Kuang Y. Chen** / Taipei  
**Rolf F. Barth** / Columbus  
**Makoto Ogawa** / Nagoya  
**Mark Kaminsky** / Ann Arbor  
**Alice L. Yu** / San Diego

### Hepatocellular Carcinogenesis: Treatment and Prevention

\***I. Bernard Weinstein** / New York  
\***Juei Low Sung** / Taipei  
**Gi-Ming Lai** / Tao-Yuan  
**Ding-Shinn Chen** / Taipei  
**Zhao-You Tang** / Shanghai  
**Yung-Chi Cheng** / New Haven  
**Brian I. Carr** / Pittsburgh

### Summary

**Bruce A. Chabner** / Bethesda

*Applicants are encouraged to submit abstracts for poster presentation.*

\*indicates Session Chairperson

### Information and Application Forms

#### American Association for Cancer Research

Public Ledger Building, Suite 816  
150 South Independence Mall West  
Philadelphia, PA 19106-3483  
215-440-9300 215-440-9313 (FAX)

#### Institute of Biomedical Sciences

c/o Ms. Iris Li  
IBMS, Academia Sinica  
Taipei 115, Taiwan, R.O.C.  
886-2-789-9007  
886-2-782-5573 (FAX)

**SCIENTISTS IN TRANSLATIONAL RESEARCH  
FOR CANCER TREATMENT AT THE  
SAMSUNG MEDICAL CENTER IN KOREA**

There is an ambitious program of translational research in cancer to be established at the Samsung Medical Center in Seoul, Korea. Emphasis will be placed on the clinical implementation of new and promising treatment leads, taking advantage of basic science discoveries. However the preclinical and basic investigations are also expected to be performed as needed to support and facilitate gene therapy, immunotherapy, biotherapy and bone marrow transplantation. There are separate basic and clinical life science research laboratories at the Center expected to have mutual collaboration with this oncology laboratory. Qualified candidates are expected to hold Ph.D. degree or equivalent. Areas to be covered include:

1. Molecular Biology/Signal Transduction as well as Gene Therapy
2. Biochemistry/Antioxidant-Free Radicals, L-Ascorbic Acid, and Analytical Capability such as HPLC
3. Immunology/Cytokines and Cellular Immunology
4. Cell Biology/Cell Culture and Animal Tumor Work

Please reply with CV and three references to:

Chan H. Park, M.D., Ph.D., Professor and Chief  
Division of Oncology-Hematology, Department of Internal Medicine  
Texas Tech University Health Science Center  
3601 4th Street, Lubbock, TX 79430  
(Phone: 806-743-3135, Fax: 806-743-3176)  
or  
Personnel Department, Samsung Medical Center  
50 Ilwon Dong, Kangnam Ku, Seoul, Korea  
(Phone: 3410-3070, Fax: 3410-3159)

**Molecular Cancer Immunologist**

At the University of Arizona Health Sciences Center. The position is tenure track at the level of Assistant Professor with an appointment in the Department of Microbiology and Immunology and at the Arizona Cancer Center. Applicants should have a Ph.D. or M.D. and have demonstrated expertise in the field. The successful candidate will be expected to develop an independent, competitive research program in cancer-related molecular immunology. An interest in the application of state-of-the-art immunological techniques to clinical problems would be an advantage. Women and minorities are encouraged to apply.

Submit a CV and 3 letters of recommendation to:

Dr. Garth Powis  
Director of Basic Science  
Arizona Cancer Center  
Tucson, AZ 85724

Applications will be considered September 1, 1994, until the position is filled.

*The University of Arizona is an EEO/AA/ADA Employer.*

**AMERICAN CANCER SOCIETY  
CLINICAL AWARD**

The American Cancer Society is proud to announce its 1995 funding for the Cancer Control Career Development Award for Primary Care Physicians (CCDA).

The CCDA was created to develop academic leaders in the primary care specialties who will emphasize cancer control. An application must describe, in the context of a comprehensive primary care setting, a detailed program of clinical, teaching, and research activities planned for the two-year period of the award. It is anticipated that medical school faculty trained under these awards will promote cancer control activities and methodology to students and physicians in the academic setting, as well as to their colleagues in private practice, and enhance the cancer control knowledge base through increased research. The Society annually funds three CCDA's, which provide a stipend of \$25,000 in the first year and \$30,000 in the second.

Please note that candidates for this award must be citizens or permanent residents of the United States. The application deadline is:

**August 15, 1994**

To request additional information or application materials for these programs, contact the office of:

For Registration and Information, contact:

Virginia Krawiec, MPA  
Clinical Awards Program  
American Cancer Society, Inc.  
1599 Clifton Road, N.E.  
Atlanta, GA 30329-4251  
Telephone: 404-329-5734  
Fax: 404-325-1467

**INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
WORLD HEALTH ORGANIZATION  
LYON - FRANCE**

**FELLOWSHIPS FOR RESEARCH TRAINING IN CANCER  
1995-1996**

Applications for training fellowships in 1995-1996 are invited from junior scientists wishing to be trained in those aspects of cancer research related to the Agency's own programmes: epidemiology, biostatistics, environmental and viral carcinogenesis and mechanisms of carcinogenesis. Applications are encouraged from epidemiologists and laboratory scientists for interdisciplinary training that will facilitate the conduct of genetic and molecular epidemiological research. Applicants requiring basic training in cancer epidemiology will also be considered.

Applicants should be engaged in research in medical or allied sciences and intend to pursue a career in cancer research.

Fellowships are awarded for one year and are tenable at the Agency or in any other suitable institution abroad. Fellows will, in general, be selected from applicants with some postdoctoral research experience related to cancer in medicine or the natural sciences. Applicants must have an adequate knowledge, both written and spoken, of the language of the country in which their fellowship is tenable.

Applications cannot be accepted from people already in receipt of funds enabling them to study abroad or who are already in their proposed host institute prior to the selection.

Stipends will vary according to the cost of living in the country of study. The cost of travel for the applicant, and in certain circumstances, that of one dependent, will be met.

*Fellowship application forms and more detailed information are available from:*

**FELLOWSHIPS PROGRAMME  
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
150 cours Albert-Thomas, 69372 Lyon Cedex 08, France**

**Applications must reach the Agency no later than 31 December 1994.**

AACR SPECIAL CONFERENCE IN CANCER RESEARCH

# Translational Research in Cancer: New Opportunities for Progress

*Supported by a Generous Grant from the  
National Institute of Environmental Health Sciences*



November 29 - December 4, 1994  
The Grove Park Inn, Asheville, North Carolina

CONFERENCE CHAIRPERSON

**Carlo M. Croce** / Philadelphia, PA

PROGRAM COMMITTEE

**Martin D. Abeloff** / Baltimore, MD  
**Clara D. Bloomfield** / Buffalo, NY  
**Bruce D. Cheson** / Bethesda, MD

**Robert L. Comis** / Philadelphia, PA  
**Mark A. Israel** / San Francisco, CA  
**Marc E. Lippman** / Washington, DC

SCIENTIFIC PROGRAM

**Keynote Address**

**Webster K. Cavenee** / La Jolla, CA

**Hematopoietic Malignancies - Biology**

**Max D. Cooper** / Birmingham, AL  
**Edward A. Clark** / Seattle, WA  
**Bice Perussia** / Philadelphia, PA  
**Drew M. Pardoll** / Baltimore, MD

**Hematopoietic Malignancies - Molecular  
Biology**

**Carlo M. Croce** / Philadelphia, PA  
**Eli Cnaan** / Rehovot, Israel  
**Stephan W. Morris** / Memphis, TN

**Hematopoietic Malignancies - Treatment**

**Albert B. Deisseroth** / Houston, TX  
**Neal A. Flomenberg** / Milwaukee, WI  
**Lee M. Nadler** / Boston, MA  
**Bruce D. Cheson** / Bethesda, MD  
**John C. Reed** / La Jolla, CA  
**Clara D. Bloomfield** / Buffalo, NY

**Cytogenetics of Solid Malignancies/  
Sarcomas/Brain Tumors**

**Felix Mitelman** / Lund, Sweden  
**Frederic G. Barr** / Philadelphia, PA  
**Mark A. Israel** / San Francisco, CA  
**Mark Noble** / London, England

**Prostate Cancer and Ovarian Cancer**

**John T. Isaacs** / Baltimore, MD  
**Donald S. Coffey** / Baltimore, MD  
**Thomas C. Hamilton** / Philadelphia, PA  
**Robert F. Ozols** / Philadelphia, PA

**Lung Cancer**

**John D. Minna** / Dallas, TX  
**Susan L. Naylor** / San Antonio, TX  
**Paul A. Bunn, Jr.** / Denver, CO

**Breast Cancer**

**Marc E. Lippman** / Washington, DC  
**Ira Pastan** / Bethesda, MD  
**Karl Erik Hellström** / Seattle, WA  
**Charles R. King** / Gaithersburg, MD  
**Lance A. Lotta** / Bethesda, MD  
**Jackson B. Gibbs** / West Point, PA  
**Martin D. Abeloff** / Baltimore, MD

**Colorectal Cancer**

**Raymond L. White** / Salt Lake City, UT  
**Richard Fishel** / Burlington, VT  
**Richard Kolodner** / Boston, MA  
**Glenn Steele, Jr.** / Boston, MA

*Applicants are encouraged to submit abstracts  
for poster presentation.*

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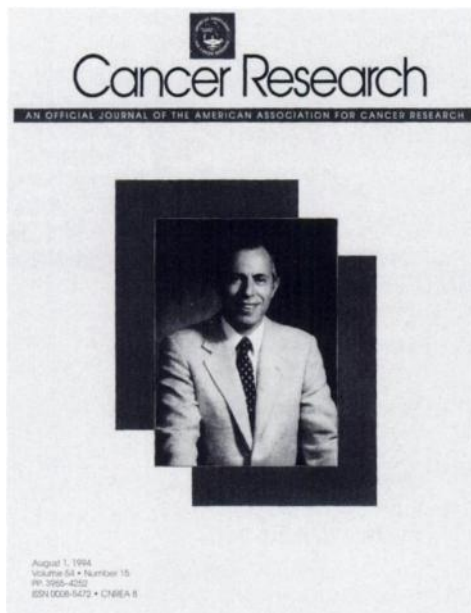
**Information and Application Forms**

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215-440-9300 215-440-9313 (FAX)

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**Application Deadline: August 22, 1994**

# COVER LEGEND



This issue's cover features John Laszlo, an individual who has generously served the field of cancer research in a broad scope of activities. Although trained in medicine, having received the M.D. from Harvard in 1955 after a baccalaureate from Columbia in 1951, he undertook basic experimental research at the National Cancer Institute (NCI) under the tutelage of Dean Burk, a disciple of Otto Warburg, a controversial figure in glucose metabolism and a fervent defender of the significance of aerobic glycolysis of malignant cells. Dr. Laszlo's work has helped to clarify differences in the metabolism of glucose between normal and leukemic lymphocytes and granulocytes with the goal of searching for therapeutic possibilities (*Blood*, 31: 104–110, 1968; *Proc. Soc. Exp. Biol. Med.*, 97: 127–131, 1958). Turning his interests to clinical hematology-oncology in 1959, he joined the Duke University Department of Medicine, where in 1972 he rose to become Director of Clinical Programs of the Duke Comprehensive Cancer Center and Professor of Medicine. At Duke, he pursued a clinical and experimental attack on human cancer and contributed much new and original data in collaboration with R. Wayne Rundles, Duke faculty and students, and sometimes with the Nobel laureates George Hitchings and Gertrude Elion of the nearby Wellcome Laboratories. Among some notable studies was his discovery, along with Peter Ove and Earl and Betty Baril, of a new DNA polymerase originally found in human cancer cells (*Cancer Res.*, 29: 1562–1567, 1969; *Biochemistry*, 10: 1981–1992, 1971). A decade of collaboration with David Sedwick and Charles Nichol and others at Burroughs Wellcome explored the use of lipid-soluble antifolates to circumvent transport resistance [G. Weber (ed.), *Advances in Enzyme Regulation*, Vol. 24, pp. 357–375. Elmsford, NY: Pergamon Press, 1986]. Collaborative research

in 1968 led to the first description of the ability of immune plasma to reduce the burden of human leukemia cells and later to detailed studies of lymphoblastoid interferon in humans (*Blood*, 31: 104–110, 1968; *Cancer Res.*, 43: 4458–4466, 1983). He also pioneered in studies of antiemetics (*Antiemetics and Cancer Chemotherapy*. Baltimore: Williams & Wilkins, 1983).

Joining the American Cancer Society (ACS) as Vice President for Research in 1986, and serving as its National Vice President for Research since 1988, he has had the important responsibility of administering its \$100 million/year research program, a position in which he has distinguished himself with great integrity for leading an effort second only to that of the NCI. He has a talent for writing and speaking about science to lay people in understandable terms and has written two books in this regard, *Understanding Cancer* (New York: Harper and Row, 1987) and *The Cure of Childhood Leukemia: Into the Age of Miracles* (New Brunswick, NJ: Rutgers Press, in press). His distinguished record and ability to communicate to the laity have been of prime importance to the steady and generous financial response of the public to the ACS in its efforts to support the highest quality of research and training in the cancer field, which is a major contribution of the Society in the fight against cancer.

Dr. Laszlo's interest in cancer began literally at his father's knees. He came to the United States from Vienna at age seven, when his father, Daniel Laszlo, joined colleagues at Mt. Sinai Hospital in New York to extract therapeutic substances from yeast and barley, subsequently found to be pteropterins. His father later started the Neoplastic Diseases Division of Montefiore Hospital in Bronx, New York, the first of such categorical units. Accompanying his father on rounds and house calls, he became interested in oncology and research for human benefit.

Dr. Laszlo has been an active member of the American Association for Cancer Research (AACR) since 1959. He served two terms on the Board of Directors (1981–1984; 1987–1990) and was a member of the Awards Committee (1981–1983), as well as an Associate Editor for *Cancer Research* (1984–1986). In addition, his service to the AACR has been particularly noteworthy in the area of public affairs. He was named Chairperson of the Scientific and Public Affairs Committee (now called the Public Education Committee) at its inception in 1983 and held that position until January 1987. After stepping down from this post, he continued to serve as a member of the committee until May 1994. Throughout his years of service on this committee, his wide knowledge of the cancer field contributed immeasurably to the value of the work done by the committee.

We are indebted to Dr. Laszlo for his contributions to cancer research and to the AACR.

Sidney Weinhouse