84th Annual Meeting of the
AMERICAN ASSOCIATION FOR CANCER RESEARCH
May 19-22, 1993 Orlando, FL

An Outstanding Scientific Program That Integrates the Most Recent Findings in Basic and Clinical Cancer Research

SCIENTIFIC SESSIONS

Minority Issues Committee Symposium: Careers and Opportunities in Cancer Research - Jerome Wilson, Sarah Antonia Li, Jacqueline Locklear, Eddie Reed, Dorothy Jones, Jr., Paullette S. Gray, Roberto Villarreal.

Richard and Hinda Rosenthal Foundation Award Lecture


Symposium: Cytokines in the Immunomodulation of Cancer Elizabeth A. Grinn, Beverly Fiers, Byrd Guinbaud, James J. Mul, Jerome Rit.


Presidential Address - Lee W. Witherspoon


Symposium: Mesenchymal-Epithelial Interactions with Normal and Neoplastic Epithelial Cells - Gerald R. Cana, Norbert E. Faesem, Jeffrey S. Rubin, Michael K. Skinner.

Bruce M. Cain Award Lecture - Victor Ling

American Cancer Society Award Lecture - Joseph F. Fraumeni, Jr.

Methods Workshop: Clinical Research Methodology - Brigid G. Leventhal, Steven Piantadosi, Barry E. Soory, Stephen L. George, Jane E. Heney. (Additional registration fee required.)


G. H. A. Clowes Memorial Award Lecture - Smart H. Yossu.


Symposium: Protein Phosphatases in Carcinogenesis - Claude B. Kler, Mary C. Mumbey, Minako Nagao, David Hartshorne, Nick Tonks.


Symposium: Biology and Genetics of Human Neoplastic Lesions - Walter N. Hinnelin, Stanley R. Hamilton, Helene S. Smith, Brian J. Reid, Awe Rizza.


C. P. Rhoads Memorial Award Lecture - Tom Curran.

Fri., Afternoon May 21

Public Education Session - Speaker to be announced.


Symposium: Advances in Molecular Epidemiology of Human Cancer - Curtis C. Harris, Robert F. Murray, Jr., Frederica Pereira, David Sudmks, Yutaka Nakamura.

Symposium: Molecular Basis for the Modulation of Radiation Sensitivity - W. Gillies McKenna, David A. Boothman, Michael B. Kastan, Ruth J. Muschel, Ralph B. Weichselbaum, Peter M. Mauch.

Symposium: Protein Kinase C: Modulator of the Cancer Phenotype and Target for Chemotherapy - Peter M. Blumberg, Robert M. Bell, Michael Karpin, I. Bernard Weinstein, Stuart H. Yoo.

Symposium: Immunologic Approaches to Targeted Therapy Ira Pastan, Lee M. Nadler, David M. Goldenberg, Peter D. Senter.

Symposium: Biology and Pathogenesis of Prostate Cancer Maureen C. Boxland, William B. Dana, Timothee C. Thompson, Ian Trapeau, Leland W. K. Chung, Donald S. Coffey.


Methods Workshop: Embryonic Stem Cells and Gene Knockouts - Thomas C. Dovetschuk, Kirk Thomas, Mark Monroe, Beverly Koller. (Additional registration fee required.)

Minisymposia, poster discussion sessions, and regular poster sessions will be organized from over 3,400 submitted papers in all areas of cancer research.

SESSIONS OF PROPOSED PAPERS

Fri., Afternoon May 21

General Information

FEES

Member Registration $115*
Nonmember Registration $210*
Preceptor Student and Postgraduate Workshop Registrations $50
Proceedings of the AACR $35

*5** discount for advance registration received by March 29, 1993,
**5** discount for advance registration received by March 29, 1993.

Employment Register

Candidates: AACR Members $10
Nonmembers $25

Employers: AACR Members $75
Nonmembers $125
Commercial Firms $250

The Proceedings of the American Association for Cancer Research contains abstracts of all papers accepted for presentation by the Program Committee and extended abstracts of symposium presentations and special lectures. The Proceedings is received by all members with paid-up subscriptions to AACR journals, or it may be purchased at the time of registration for $35.

The Program of the Annual Meeting of the American Association for Cancer Research is included in the registration fee.

Detailed listings of available positions and prospective candidates will be available for consultation during the Annual Meeting and will be published in the Proceedings and in two issues of the Association's journal Cancer Research. Interviews will be scheduled in Orlando.

Display by over 100 firms offering the most up-to-date products, services, and publications for both basic and clinical cancer researchers.

Upjohn Awards

For presenters of meritorious abstracts as selected by the Program Committee. No formal application necessary. Predoctoral students, postdoctoral fellows, and physicians in training are eligible. Upjohn Company sponsors awards to investigators in North America; Upjohn International, Inc., to investigators in other countries.

Comprehensive Minority Biomedical Program of the National Cancer Institute

For predoctoral students, postdoctoral fellows, or physicians in training in the U.S. and Canada from minority groups that have been traditionally underrepresented in cancer research.

Women in Cancer Research will organize several sessions during the meeting that will be of interest to all registrants.

WICR SESSIONS

DEADLINES

March 29, 1993

Hotel Reservations April 16, 1993

Special fares available on Delta Air Lines and Continental Airlines through Uniglobe Travel, 800-245-4739 (from U.S. and Canada only) or 215-628-3332 (FAX).

Budget Rent a Car 800-772-3773 Account Number VAR3AACR

Americas for Cancer Research

Public Ledger Building

620 Chestnut Street, Suite 816

Philadelphia, PA 19106-3483

215-446-9300

FAX: 215-440-9313
AMERICAN ASSOCIATION FOR CANCER RESEARCH
SCIENTIFIC CONFERENCES: 1993-1994

OCTOBER 17-21, 1993
Cell Death and Cancer
Chairperson: Alan R. Eastman, Hanover, NH
Chatham Bars Inn, Chatham (Cape Cod), MA

NOVEMBER 7-11, 1993
Molecular Approaches to Cancer Immunotherapy
Chairperson: Ralph A. Reisfeld, San Diego, CA
Grove Park Inn, Asheville, NC

NOVEMBER 9-13, 1993
Interactions of Cancer Susceptibility Genes and Environmental Carcinogens
Joint Meeting with International Agency for Research on Cancer (IARC)
Chairpersons: Frederick P. Li, Boston, MA, and Ruggero Montesano, Lyon, France
IARC, Lyon, France

DECEMBER 5-9, 1993
Cell Signalling and Cancer Treatment
Joint Meeting with British Association for Cancer Research and European Organisation for Research and Treatment of Cancer (PAM Group)
Chairpersons: Garth Powis, Tucson, AZ; Paul Workman, Glasgow, Scotland
El San Juan Hotel, San Juan, PR

JANUARY 17-22, 1994
Risk Assessment in Environmental Carcinogenesis
Co-Sponsored by the Environmental Mutagen Society
Chairpersons: Philip C. Hanawalt, Stanford, CA; James A. Swenberg, Chapel Hill, NC
Whistler Resort and Conference Center, Whistler, B.C., Canada

JANUARY 31-FEBRUARY 5, 1994
Molecular Genetics of Progression and Metastasis
Chairperson: Lance A. Liotta, Bethesda, MD
Big Sky Resort, Big Sky, MT

FEBRUARY 19-24, 1994
Cancer: Perturbation in Cell Cycle Control and Genomic Integrity
Chairpersons: Thea D. Tlsty, Chapel Hill, NC; Lawrence A. Loeb, Seattle, WA
Banff Springs Hotel, Banff, Alberta, Canada

MARCH 5-11, 1994
Growth Factors, Development, and Cancer
Joint Meeting with Friedrich-Miescher Institut
Chairpersons: Harold L. Moses, Nashville, TN; Bernd Groner, Basel, Switzerland
Congress Center, Interlaken, Switzerland

APRIL 10-13, 1994
85th Annual Meeting
Chairperson: Karen S. H. Antman, Boston, MA
Moscone Convention Center, San Francisco, CA

OCTOBER 16-20, 1994
Transcriptional Regulation in Differentiation (Tentative Title)
Chairpersons: Eric N. Olson, Houston, TX; Bruce M. Spiegelman, Boston, MA
Chatham Bars Inn, Chatham (Cape Cod), MA

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
620 Chestnut Street, Suite 816
Philadelphia, PA 19106-3483
215-440-9300 • 215-440-9313 (FAX)
INTERACTIONS OF CANCER SUSCEPTIBILITY GENES AND ENVIRONMENTAL CARCINOGENS

Joint Meeting Organized by the American Association for Cancer Research (AACR) and the International Agency for Research on Cancer (IARC)

November 9-13, 1993 Lyon, France

CONFERENCE CHAIRPERSONS
Frederick P. Li / Boston, USA
Ruggero Montesano / Lyon, France

SCIENTIFIC PROGRAM

Introductory Lectures
Curtis C. Harris / Bethesda, USA
Lorenzo Tomatis / Lyon, France
Lee W. Wattenberg / Minneapolis, USA
Manfred F. Rajewsky / Essen, Germany

Human Cancers
Frederick P. Li / Boston, USA
Valerie Beral / Oxford, England
Bruce A. J. Ponder / Cambridge, England
Neil E. Caporaso / Bethesda, USA
Gilbert M. Lenoir / Lyon, France

Genetic Instability
Kari K. Alitalo / Helsinki, Finland
T. Heidmann / Paris, France
Thea D. Tlsty / Chapel Hill, USA

Markers of Individual Exposure
Ruggero Montesano / Lyon, France
Peter A. Cerutti / Epalinges, Switzerland

Experimental Models of Genetic Susceptibility
J. Carl Barrett / Research Triangle Park, USA
Henry C. Piot / Madison, USA
Bernard M. Mechler / Heidelberg, Germany

Opportunities for Prevention
I. Bernard Weinstein / New York, USA

DNA Damage and Repair
Dirk Bootsma / Rotterdam, The Netherlands
John M. Essigmann / Cambridge, USA
Mutsuo Sekiguchi / Fukuoka, Japan

Information and Application Forms
American Association for Cancer Research
Public Ledger Building
620 Chestnut Street, Suite 816
Philadelphia, PA 19106-3483
(215) 440-9300 (215) 440-9313 (FAX)

Mechanisms of Transgenerational Carcinogenesis
Carmen Sapienza / La Jolla, USA
Ulrike Wintersberger / Vienna, Austria
David Malkin / Toronto, Canada
Christopher J. Kemp / Glasgow, Scotland
THE AMERICAN ASSOCIATION FOR CANCER RESEARCH PRESENTS

An Important Educational Opportunity for
Predoctoral and Postdoctoral Fellows
Contemplating Careers in Basic Cancer Research

HISTOPATHOBIOLOGY OF NEOPLASIA

The Edward A. Smuckler Memorial Workshop
Supported by a Generous Grant from the National Cancer Institute

Keystone Conference Center
Keystone, Colorado
June 20 - June 27, 1993

• Intensive training in the histopathology and biology of neoplasia.
• Twenty-eight hours of hands-on laboratory exercises directed by distinguished pathologists.
• An outstanding series of lectures on rapidly developing areas of cancer research by laboratory directors and other prominent investigators.
• Extensive written course materials that will serve as valuable references in the future.
• Full funding of participants' lodging and subsistence expenses during the workshop.

LABORATORY AND LECTURING FACULTY

John H. Lehman*, Albany College of Medicine, Albany, NY, Course Director
Stephen Baird*, VA Medical Center, San Diego, CA
Helen Feiner, New York University School of Medicine, New York, NY
Michael W. Lieberman*, Baylor College of Medicine, Houston, TX
Robert Low, University of Colorado School of Medicine, Denver, CO
Gary Miller*, University of Colorado School of Medicine, Denver, CO
Harold L. Moses, Vanderbilt University School of Medicine, Nashville, TN
Sharon B. Murphy, Children's Hospital, Chicago, IL
Garth L. Nicolson, UT-M. D. Anderson Cancer Ctr., Houston, TX
G. Barry Pierce, University of Colorado School of Medicine, Denver, CO
Michael Prystowsky, University of Pennsylvania School of Medicine, Philadelphia, PA
Stewart Sell, University of Texas Medical School, Houston, TX
Saraswati Sukumar, The Salk Institute, La Jolla, CA
Frederick Waldman, University of California, San Francisco, CA
Sandra R. Wolman*, Harper Hospital, Detroit, MI
Additional Faculty to be Announced

*Member of the Workshop Executive Committee

Further Information: American Association for Cancer Research • Public Ledger Building
620 Chestnut Street • Suite 816 • Philadelphia, PA 19106-3483
Telephone: (215) 440-9300 • FAX: (215) 440-9313
AACR SPECIAL CONFERENCE IN CANCER RESEARCH

Cell Death in Cancer and Development

October 17-21, 1993
Chatham Bars Inn, Chatham (Cape Cod), Massachusetts

CONFERENCE CHAIRPERSON
Alan R. Eastman / Hanover, NH

PROGRAM COMMITTEE
Nathan A. Berger / Cleveland, OH
H. Robert Horvitz / Boston, MA
John T. Isaacs / Baltimore, MD
Stanley J. Korsmeyer / St. Louis, MO
Thomas R. Tritton / Burlington, VT
Andrew H. Wyllie / Edinburgh, Scotland

SCIENTIFIC PROGRAM

Keynote Address
Andrew H. Wyllie / Edinburgh, Scotland

Cell Death and Development
Martin C. Raff / London, England
H. Robert Horvitz / Boston, MA
Lawrence Schwartz / Amherst, MA
Hermann Steller / Cambridge, MA

Cell Death in the Pathogenesis of Cancer
John T. Isaacs / Baltimore, MD
Rolf Schulte-Hermann / Vienna, Austria
David P. Lane / Dundee, Scotland

Suppression of Cell Death
Stanley J. Korsmeyer / St. Louis, MO
Eileen White / Piscataway, NJ
William Sugden / Madison, WI
Ruth Craig / Hanover, NH

Enzymology of Cell Death
John A. Cidlowski / Chapel Hill, NC
Alan R. Eastman / Hanover, NH
Peter J.A. Davies / Houston, TX

Cell Death in the Immune System
Peter H. Krammer / Heidelberg, Germany
Douglas R. Green / LaJolla, CA
Jonathan D. Ashwell / Bethesda, MD
Arnold H. Greenberg / Winnipeg, Manitoba, Canada

Genetic Events Associated with Cell Death
J. John Cohen / Denver, CO
Barbara Osborne / Amherst, MA
Ralph E. Buttyan / New York, NY
Robert Schlegel / Boston, MA

Cell Death in Cancer Chemotherapy
Nathan A. Berger / Cleveland, OH
Yves G. Pommier / Bethesda, MD
Nancy L. Oleinick / Cleveland, OH
Carlos J. Carrera / San Diego, CA

Applicants are encouraged to submit abstracts for poster presentation.

Information and Application Forms
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Application Deadline: June 28, 1993
The recipients of the 1993 Awards granted by the American Association for Cancer Research (AACR) are featured on this issue’s cover. The awards, which will be presented at the 84th Annual Meeting of the Association, being held in Orlando, Florida, from May 19 to May 22, cover a wide range of investigations. Two of the awards are being given to investigators who are in the early stages of their careers. The Seventeenth Richard and Hinda Rosenthal Foundation Award, which recognizes unusual advances in clinical cancer research by a person who is under 51 years of age, is being awarded to Waun Ki Hong (upper left), Chief of Head and Neck Oncology at the University of Texas M. D. Anderson Cancer Center, Houston, Texas. Dr. Hong is being honored for his work in developing effective strategies for the treatment and prevention of epithelial aerodigestive neoplasms, including alternatives to laryngectomy and the use of 13-cis-retinoic acid as a therapeutic agent. He has published 140 original papers and 70 reviews and book chapters. He serves on many advisory boards, committees, and editorial boards, including an appointment on the Editorial Board of Cancer Research. He received the Milken Family Foundation Award in 1990 and a Presidential Citation from the American Society for Head and Neck Surgery in 1991.

The second award dedicated to a young investigator is the Twelfth Annual Cornelius P. Rhoads Memorial Award, presented to a person who is under 41 years of age. This award was established by an anonymous donor in memory of a pioneer in cancer therapy and founder of the Sloan-Kettering Institute in New York. This year’s recipient is Tom Curran (upper right), Head of the Department of Molecular Oncology and Virology and Associate Director of the Roche Institute, Nutley, New Jersey. Dr. Curran has a distinguished record in molecular oncology and is being honored for his discovery of the fos oncogene and the subsequent uncovering of its interaction with the jun oncogene and their encoded proteins. He is author or coauthor of 100 original articles and reviews and has served on many study sections, committees, and editorial boards. He has presented lectures at meetings and participated in the activities of the AACR, including membership on the AACR Special Conferences Committee and the Editorial Board of the AACR’s journal on the molecular biology of cancer, Cell Growth & Differentiation. In 1992, Dr. Curran received the Passano Foundation Young Scientist Award and the First Glasgow University Tenovus Scotland Medal. He has also been a recipient of the Rota Levi Montalzini Award Lectureship and the Fidia Research Foundation Lectureship.

The Thirty-third Annual G. H. A. Clowes Memorial Award, established by the Eli Lilly Company to honor a former Research Director of the firm and one of the founders of the AACR, is being given to Stuart H. Yuspa (upper center), Chief of the Laboratory of Cellular Carcinogenesis and Tumor Promotion, National Cancer Institute, Bethesda, Maryland. He is being honored for his use of the mouse skin model to define cellular and molecular mechanisms of tumor promotion and to place this stage of cancer development within the perspective of the accumulation of successive genetic lesions. His work has been particularly notable in fostering a deeper understanding of the biology of the skin. He has been active in various cancer organizations, serving on many committees and editorial boards. He was a member of the AACR Board of Directors from 1988 to 1991 and is currently serving as Co-Chairperson to the Carcinogenesis Subcommittee of the 1992–1993 AACR Program Committee. He also holds an appointment on the AACR Ad Hoc Committee for Science Education. In addition, he is an Associate Editor of Cancer Research. Prior awards include the Elizabeth Miller Memorial Lectureship and the Lila Gruber Memorial Cancer Research Award.

Excellence in therapeutic research is recognized by the presentation of the Twelfth Annual Bruce F. Cain Memorial Award to Victor Ling (lower right), Head of the Division of Molecular and Structural Biology, Ontario Cancer Center, Toronto, Ontario, Canada. This award was established by the Warner-Lambert Company in memory of one of its distinguished scientists who contributed to the design, synthesis, and evaluation of potential antitumor drugs. Dr. Ling is being honored for his seminal contributions to the mechanisms of drug resistance, particularly with regard to the role of P-glycoproteins. He joined the Ontario Cancer Institute in 1971 and is now Professor of Medical Biophysics at the University of Toronto. He is currently a member of the Board of Directors of the AACR. He serves on numerous committees, study sections, and editorial boards, including Cancer Research. He has received many awards, such as the Gairnner Award, 1990; the General Motors Cancer Research Foundation Kettering Prize, 1991; and the Courvoisier Leadership Award, 1992.

The Second Annual American Cancer Society Award, the AACR’s newest award, will be presented to Joseph F. Fraumeni, Jr. (lower left), Director of the Epidemiology and Biostatistics Program, National Cancer Institute, Bethesda, Maryland. One of the most distinguished world authorities in the fields of epidemiology and biostatistics, Dr. Fraumeni is a productive and influential contributor to our knowledge of human tumor etiology. His dedication to cancer etiology research covers a span of about 30 years in which he has made seminal contributions to our understanding of the causes of cancer, while at the same time guiding, inspiring, and helping other epidemiologists throughout the world to conduct productive research. In 1969, together with Fred Li, he identified a familial aggregation of cancers of different sites, especially childhood sarcomas and breast cancer, known today as the Li-Fraumeni syndrome. He has also served on many committees and editorial boards, including his current posts as Associate Editor for both Cancer Research and Cancer Epidemiology, Biomarkers & Prevention.