

# Cancer Epidemiology Biomarkers & Prevention

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American Association for Cancer Research  
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Abstracts from 22nd Annual  
ASPO Meeting  
Begin on Page 175

# AMERICAN ASSOCIATION FOR CANCER RESEARCH

## 89th Annual Meeting

Frank J. Rauscher, III, Program Committee Chairperson

Morial Convention Center, New Orleans, Louisiana

March 28-April 1, 1998

### Titles of Major Sessions

(Names of confirmed session organizers are in parentheses)



### SPECIAL LECTURES

Presidential Address: Donald S. Coffey  
Clowes Award: Arnold J. Levine  
Burchenal Award: Bernard Fisher  
Rosenthal Award: Lee Nadler  
Cain Award: Bruce A. Chabner  
Rhoads Award: Michael Dean  
AACR-ACS Award  
Goodman Lecture

### PLENARY SESSION

New Horizons in Cancer Research (Frank J. Rauscher, III)

### SYMPOSIA

Molecular Determinants of Cellular and Tumor Responses to Radiation (Michael B. Kastan)  
The Promise of Oncogene-based Drug Targeting (Alex Matter)  
Cancer Gene Therapy: New Concepts and Clinical Applications (Jack A. Roth)  
Reconstruction of Human Tumorigenesis and Progression: Cancer Genetics in Model Organisms (Anthony Wynshaw-Boris)  
Tumor Angiogenesis and Microcirculation: An Integrated Approach (Rakesh K. Jain)  
Signaling by wnt-1,  $\beta$ -catenin, and the APC Tumor Suppressor in Cancer (Paul Polakis)  
Prostate Cancer: Basic Science and Clinical Aspects (Leland W.K. Chung)  
The Molecular Basis of Immune Recognition: Basic Concepts with Therapeutic Implications (Giorgio Trinchieri)  
The bcl-2 Family: Death Agonists and Antagonists (Stanley J. Korsmeyer)  
Telomerase and Telomeres in Normal and Neoplastic Cells (Ronald A. DePinho)  
Inherited Cancer Susceptibility Syndromes: Genetics, Genes, and Function (Daniel A. Haber)  
New Concepts in Chemotherapeutics and Drug Resistance (Susan Band Horwitz)  
Cell Death Signaling Pathways: Caspase Cascades and Effectors/Initiators of Apoptosis (Douglas R. Green)  
p73/p53: An Emerging Gene Family (William G. Kaelin)  
Breast Cancer: Basic Science and Clinical Aspects (Sofia D. Merajver)  
Molecular Targets and Endpoints for Chemoprevention (Waun Ki Hong)  
Cancer Biology in Context: Stromal-Epithelial, Cell-Cell, and Cell-ECM Interactions in Normal Development and Cancer (Mina J. Bissell)  
Gastrointestinal Cancer: Basic Science and Clinical Aspects (Kenneth W. Kinzler)  
Tumor Virology: Molecular Biology and Etiology (Karl Münger)  
Advances in Cancer Vaccine Development (Dorothee Herlyn)

Molecular Diversity-based Approaches to Anti-Cancer Drug Design (Jack D. Keene)  
New Mechanisms of Action of Viral and Cellular Oncogenes (Elizabeth Moran)  
Genetic Approaches to Diagnosis: The Impact of Molecular Medicine on Early Detection and Diagnosis (David Sidransky)  
Tobacco and Lung Carcinogenesis: Genetics, Biology, and Epidemiology (Adi F. Gazdar)  
Transcriptional Regulation of the Neoplastic Phenotype (Frank J. Rauscher, III)  
Restoring Drug Sensitivity to Tumors: New Concepts from Tumor Biology and Physiology (William N. Hait)  
Emerging Issues for Individual Cancer Susceptibility and Risk Assessment (Fred F. Kadlubar)  
Epigenetics and Cancer (Stephen B. Baylin and Peter A. Jones)

### CONTROVERSY SESSIONS

Have We Improved the Treatment of Cancer?  
Environmental Estrogens and Cancer (Nancy E. Davidson)  
Will Multidrug Resistance Modulators Be Effective in the Clinic?

### METHODS WORKSHOPS AND EDUCATIONAL SESSIONS

#### To Be Announced

#### "MEET-THE-EXPERT" SUNRISE SESSIONS

Cancer Genome Anatomy Project (CGAP): Update and Potential (Paul S. Meltzer)  
JAKs, STATs, and src Kinases: Obligate Partners in Cytokine Signaling (E. Premkumar Reddy)  
Histone Acetylation and Transcriptional Regulation (Tony Kouzarides)  
Molecular Genetics of Brain Tumors (Sandra H. Bigner)  
Genetic Analysis of Tumor Suppression by COX-2 Inhibitors (Makoto M. Taketo)  
Sequence-specific Gene Regulation: Application of Ribozymes in Preclinical Models of Cancer (Thale Jarvis)  
Gene Transfer to Hematopoietic Progenitors (Fulvio Mavilio)  
Genetic Testing for Breast Cancer Susceptibility: Psychosocial and Clinical Research Update (Caryn E. Lerman)  
Nuclear Hormone Receptors in Development and Disease (Vincent Giguère)  
B-Cell Lymphomas: Genetics and Biology (Riccardo Dalla-Favera)  
Hormonal Regulation of Cell Proliferation and Differentiation (Lorraine J. Gudas)  
Alterations of Cell Cycle Controls in Cancer (Giulio Draetta)

Proteases in Cancer: Clinical Significance and Mechanisms in Metastasis (Henri Rochefort)  
Inherited Cancers of the Kidney: Family Studies, Genes, and Biochemistry (W. Marston Linehan)  
Strategies for Combining Chemotherapy and Biotherapy (Antonio C. Buzaid)  
Antimetabolites: New Insights into Cell Death/Signal Transduction Pathways as Determinants of Drug Sensitivity (Steven Grant)  
Interleukin-12: Biological and Clinical Developments (Giorgio Trinchieri)  
Chemoprevention Trials: Progress and Promise (Scott M. Lippman)  
Growth Factor Signaling: The IGF-1, IGF-2 System in Cancer (Haim Werner)  
Pathogenesis of Acute Promyelocytic Leukemia (Pier Pellici)  
Radiation Sensitization: Basic and Clinical Aspects (Rupert Schmidt-Ullrich)  
Advances in Mechanisms of Drug Resistance: Basic Science and Clinical Implications (Susan E. Bates)  
Harnessing the Immune System in Tumor Therapy: Manipulation, Stimulatory and Inhibitory Signals in T Cell Activation (James P. Allison)  
Integrin Signaling and Cell Growth Control: Consensus and Controversies (Rudolph L. Juliano)  
Issues and Applications in Molecular Epidemiology (Barbara S. Hulka)  
Familial Cancer Syndromes: Genetic Tests and Clinical Approaches (Ken Yamaguchi)  
Relevance of DNA Damage and Repair for Initiation and Progression of Carcinogens: Recent Advances (Jan H. J. Hoeijmakers)  
Chromosomal Translocations: Genetics, Biology, and Protein Function (James R. Downing)  
Advances in the Mechanisms of Invasion and Metastasis (Isaiah J. Fidler)  
From Slave to Master: The Biological Events During Melanoma Development and Progression (Meenhard Herlyn)  
Farnesyl Transferase Inhibitors (Ivan D. Horak)  
Topoisomerases: Structure and Function (James Wang)  
Progress in Antibody Therapy of Human Cancer (Nancy Hynes)  
Animal Models for Chemoprevention (Michael N. Gould)

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### Submission of Manuscripts

*Cancer Epidemiology, Biomarkers & Prevention* publishes original research on cancer causation and prevention in humans, linking three previously unintegrated disciplines: epidemiology, biomarkers, and prevention. Topics include descriptive, analytical, biochemical, and molecular epidemiology; the use of biomarkers to study the neoplastic and preneoplastic processes in humans; chemoprevention and other types of prevention trials; and the role of behavioral factors in cancer etiology and prevention. Manuscripts that address individual subjects in any of the three disciplines are welcome as well as manuscripts with an interdisciplinary approach. All submissions undergo peer review. Papers should be sent to: *Cancer Epidemiology, Biomarkers & Prevention*, AACR Publications Department, Public Ledger Building, Suite 826, 150 South Independence Mall West, Philadelphia, PA 19106-3483. See Instructions for Authors (page *i* of this issue) for further information concerning submissions.

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**UCSF Cancer Center**  
**Cancer Research Institute**

The UCSF Cancer Center has an opening for a genetic epidemiologist at the Assistant or Associate professor level. Applicants should have experience in studying the prevalence and penetrance of cancer susceptibility genes, interactions between genes and environmental factors and/or genotype/phenotype interactions. The successful applicant will occupy laboratory space in the new UCSF Cancer Research building and will collaborate with a multi-disciplinary cancer genetics program that is currently developing new methods for detecting mutations and gene re-arrangements in tumor specimens, and is developing a state-of-the-art facility for molecular diagnostics. Minimum requirements include a MD or PhD in genetics, epidemiology or a related field, and evidence of independent research capability based on publications and extramural funding. UCSF is an affirmative action/equal opportunity employer. The University undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities and for Vietnam-era veterans and special disabled veterans.

Interested applicants should send a curriculum vitae, a short statement of research plans, and the names of at least three references to:

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Cancer Research Institute Search Committee  
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UCSF Cancer Center  
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**AMERICAN CANCER SOCIETY  
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BEHAVIORAL, PSYCHOSOCIAL, QUALITY  
OF LIFE—PROSTATE CANCER**

The American Cancer Society is earmarking \$1.5 million for this grant cycle for Behavioral, Psychosocial, and Quality of Life Research relating to Prostate Cancer. Application is open to independent investigators at any stage of their careers.

The next deadline for these applications is **April 1, 1998**. Subsequent deadlines will be October 15, 1998, and on those same dates through 1999. The grants will be for three years, up to \$250,000 per year, including 25% indirect costs, and will be renewable as long as this remains a targeted priority area. At least two grants will be awarded each grant cycle, contingent on the quality of applications. Please contact the grants administration or development office at your institution for a special RFA application form, or download it from <http://www.cancer.org>.

Questions concerning this Request for Applications should be directed to Dr. Ralph Vogler (404) 329-7542 or Dr. Frank Baker (404) 329-7795.



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**FEBRUARY 16-21, 1998**

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***Innovative Molecular Biology Approaches to the Prevention, Diagnosis, and Therapy of Cancer***

Joint Meeting with the Japanese Cancer Association  
Chairpersons: Edward Bresnick, Worcester, MA;  
Kaoru Abe, Tokyo, Japan  
Maui Marriott Resort, Maui, HI

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**MARCH 28-APRIL 1, 1998**

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***89th Annual Meeting***

Chairperson: Frank J. Rauscher III, Philadelphia, PA  
Morial Convention Center, New Orleans, LA

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**JUNE 14-18, 1998**

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***Proteases and Protease Inhibitors in Cancer***

Co-Sponsored by Acta Pathologica Microbiologica  
Immunologica Scandinavia  
Chairpersons: Keld Dano, Copenhagen, Denmark; and  
Lynn M. Matrisian, Nashville, TN  
Nyborg Strand Conference Center, Nyborg, Denmark

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**SEPTEMBER 24-28, 1998**

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***Cellular Targets of Viral Carcinogenesis***

Chairperson: Thea D. Tlsty, San Francisco, CA  
Co-Chairpersons: Don Ganem, San Francisco, CA;  
Peter M. Howley, Boston, MA; Carol L. Prives,  
New York, NY; and Eileen P. White, Piscataway, NJ  
Marriott's Laguna Cliffs Resort, Dana Point, CA

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**OCTOBER 14-18, 1998**

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***Gene Regulation and Cancer (10th Anniversary of the AACR Special Conferences)***

Chairpersons: Phillip A. Sharp, Cambridge, MA,  
Jacqueline A. Lees, Cambridge, MA, and Steven L.  
McKnight, Dallas, TX  
The Homestead, Hot Springs, VA

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**NOVEMBER 11-15, 1998**

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***Endogenous Sources of Mutations***

Chairpersons: Lawrence J. Marnett, Nashville, TN;  
James A. Swenberg, Chapel Hill, NC; Tomas A.  
Lindahl, Herts, England  
Sanibel Harbour Resort and Spa, Ft. Myers, FL

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**DECEMBER 2-6, 1998**

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***New Approaches to Controlling Prostate Cancer***

Moderator: Donald S. Coffey, Baltimore, MD  
Chairpersons: Jonathan W. Simons, Baltimore, MD,  
and Kenneth J. Pienta, Ann Arbor, MI  
Hyatt Grand Champions Resort, Indian Wells (Palm  
Springs), CA

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**JANUARY 8-12, 1999**

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***The Steroid Receptor Superfamily***

Chairpersons: M. Geoffrey Rosenfeld, La Jolla, CA;  
Additional Chairperson to be Announced  
Renaissance Esmeralda Resort, Indian Wells (Palm  
Springs), CA

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**JANUARY 31-FEBRUARY 5, 1999**

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***Cancer Biology and the Mutant Mouse: New Methods, New Models, New Insights***

Chairpersons: Tyler Jacks, Cambridge, MA; Ronald A.  
DePinho, New York, NY  
Keystone Resort, Keystone, CO

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