AMERICAN ASSOCIATION FOR CANCER RESEARCH

Research Grants for Young Cancer Scientists

New! Application forms available on-line at http://www.aacr.org

GERTRUDE B. ELION CANCER RESEARCH AWARD

Supported by an Educational Grant from Glaxo Wellcome Oncology

The Gertrude B. Elion Cancer Research Award is a one-year, $30,000 grant for a scientist in the U.S. or Canada engaged in meritorious basic, clinical, or translational research in cancer etiology, diagnosis, treatment, or prevention at the level of Assistant Professor (not yet tenured). The AACR will reimburse the Awardee for travel to the 1999 Annual Meeting in Philadelphia, PA, where Dr. Elion will personally present this Award.

Eligibility/Selection Process

Candidates must have completed postdoctoral studies or clinical fellowships not later than July 1 of the Award year, and ordinarily not more than five years earlier. Tenured faculty in academia, federal government employees, and employees of private industry are not eligible for this award. A Candidate need not be a member of the AACR at the time of application, but must be nominated by a Member of the AACR. Associate Members may not be nominators. Applications are evaluated by a Committee consisting of AACR Members who are experts in basic, clinical, translational, and prevention research. Application deadline: December 15, 1998.

AACR RESEARCH FELLOWSHIPS

For Young Scientists at the Postdoctoral or Clinical Fellow Level

New! Some Two-Year Fellowships

The AACR Research Fellowships in Clinical, Translational, Basic, and Prevention Research foster meritorious cancer research in North, Central, or South America by young scientists currently at the postdoctoral or clinical research fellow level. Sponsored by Amgen, Bristol-Myers Squibb Oncology, Cancer Research Foundation of America, the Sidney Kimmel Foundation for Cancer Research, AACR, and others, the AACR Fellowships provide either one or two years of salary support at the rate of $30,000 per annum. Those awarded two-year grants who receive a junior faculty appointment in the second year may use the funds for non-salary research expenses in connection with the new position.

Eligibility/Selection Process

Candidates must have completed the M.D., Ph.D., or other doctoral degree. Candidates must currently be a postdoctoral or clinical research fellow and must have been a fellow for at least two years but not more than five years prior to the year of the award. Academic faculty, graduate or medical students, medical residents, permanent government employees, employees of private industry, and individuals who will receive fellowships from similar programs during the award year are not eligible. A candidate need not be a member of the AACR at the time of application, but he or she must be nominated by an AACR Member, and non-members must submit an acceptable application for membership with the fellowship application. Associate Members may not be nominators. Applications are evaluated by a Committee consisting of AACR Members who are experts in basic, clinical, translational, and prevention research. Application deadline: January 15, 1999.

For Further Information

AMERICAN ASSOCIATION FOR CANCER RESEARCH
Public Ledger Building, Suite 826
150 South Independence Mall West
Philadelphia, PA 19106-3483

Telephone: (215) 440-9300  FAX: (215) 440-9372  E-mail: horst@aacr.org
Cancer Epidemiology
Biomarkers & Prevention

An Official Journal of the American Association for Cancer Research ■ Cosponsored by the American Society of Preventive Oncology

American Association for Cancer Research, Inc.
Executive Director and Director of Publications
Margaret Foti

Publications Staff
Associate Director of Publications
Mary Anne Mennine
Manager, Editorial Services
Heide M. Puszay
Senior Staff Editors
Kathleen C. Assenmacher
Pamela R. Arnold
Staff Editors
Ronald M. Vitale
Caroline Minni
Editorial Associate
Michelle K. Bruni
Staff Assistant
Mary Ellen Poring
Senior Editorial Assistant
Theresa A. Griffith
Editorial Assistant
Brenda Roberson

Administrative Staff
Director of Administration
Adam D. Blister
Controller
Joan D. Ritchie
Manager, Meetings and Exhibits
Jeffrey M. Ruben
Assistant Director, Administration
Jenny Anne Horst-Martz
Assistant to the Executive Director
Ruth E. Forson
Membership Development Coordinator
Robin E. Felder
Administrative Assistant
Margaret A. Pickets
System Specialist
Lydia I. Rodriguez
Secretary
Malika L. Wright
Editorial Assistant
Dana F. Corto
Office Clerk
James J. Waters
Data Entry Clerk
Robert A. Simms II

Cancer Epidemiology, Biomarkers & Prevention
Journal Manager
Michael J. Beveridge
Senior Editorial Assistant
Cecilia Gallo

Editor-in-Chief
Frederick P. Li

Senior Editors
Epidemiology
John D. Potter
Biomarkers
Fred F. Kadlubar
Prevention
David S. Alberts
Behavioral Sciences
Caryn E. Leman

Associate Editors
Christine B. Ambrosone
W. Robert Bruce
Daniel A. Casciano
Webster K. Cavenee
Paul F. Engstrom
Joseph F. Fraumeni, Jr.
Karen Glanz
Ellen R. Gritz
Curtis C. Harris
Stephen S. Hecht
Laurence N. Kolonel
W. Thomas London
James R. Marshall
Abraham M. Y. Nomura
James A. Swenberg
Steven R. Tannenbaum
Alice S. Whitemore
Chung S. Yang
Mimi C. Yu

Assistant Editor
Arlene F. Kantor

Editorial Advisory Board
Hans-Olov Adami
Bruce K. Armstrong
Helmut Bartsch
Valerie Beral
Leslie Bernstein
John S. Bertram
Joan R. Bloom
William J. Blot
John D. Boice, Jr.
George E. Bonney
Roberd M. Bostick
Ricardo R. Brentani
Eva Buiai
Neil E. Caporaso
Wong-Ho Chow
Philip Cole
K. Michael Cummings
Susan J. Curry
Janet Daling
Mary Daly
Eduardo DeStefani
Virginia L. Ernst
Michael Fiore
Elizabeth T. H. Fonfam
David Forman
Eduardo L. Franco
Yu-Tang Gao
E. Robert Greenberg
Raymond S. Greenberg
Peter Greenwald
F. Peter Guengerich
Rodrigo Guererro
Clark W. Heath, Jr.
Kathy J. Helzlsouer
Elizabeth A. Holly
Waun Ki Hong
Geoffrey R. Howe
Mary Claire King
Leo J. Kinlen
Paul Kleihues
Alfred G. Knudson, Jr.
Bernard Levin
Lance A. Liotta
Martin Lipkin
Richard R. Love
Thomas Mack
Frank L. Meyskens, Jr.
Christopher J. Michejda
Rodney F. Minchin
John D. Minna
Ruggiero Montesano
John J. Mulvihill
Alvaro Muñoz
Nubia Muñoz
Alfred I. Neugut
Gilbert S. Omenn
C. Tracy Orleans
David L. Page
Frederica Perera
Nicholas L. Petakis
John P. Pierce
Miriam C. Poirier
Bruce A. J. Ponder
Ross Prentice
Barbara Rimer
Nathaniel Rothman
George C. Roush
Jose Russo
Jonathan M. Samet
Arthur Schatzkin
Mark H. Schifferman
David Schottenfeld
Paul A. Schulte
Peter Shields
Roy E. Shore
Margaret R. Spitz
Louise C. Strong
Takashi Sugimura
G. Marie Swanson
Eiichi Tahara
Bruce Trock
Sally Vernon
Michael J. Wargovich
Lee W. Wattemberg
I. Bernard Weinstein
John H. Weisburger
Noel S. Weiss
Ainsley Weston
Walter C. Willett
Rodger J. Winn
Gerald N. Wogan
Sandra R. Wolman
Ernst L. Wynder
Regina Ziegler

Cancer Epidemiology, Biomarkers & Prevention is published monthly, one volume annually, by the American Association for Cancer Research, Inc. (AACR). Except for members of the AACR, all subscriptions are payable in advance to AACR, Subscription Office, P. O. Box 11806, Birmingham, AL 35202 [Telephone: (800) 633-4931 or (205) 995-1567; FAX: (205) 995-1588], to which all business communications, remittances (in United States currency or its equivalent), and subscription orders should be sent. In Japan, send orders and inquiries to (sole agent): USACO Corporation, Tsunumi Bldg., 13-12, Shimbashi 1-chome, Minato-ku, Tokyo 105, Japan; Tel. (03) 502-6471. Nonmembers of the AACR within the United States may subscribe to Volume 7 (1998) of Cancer Epidemiology, Biomarkers & Prevention at the rate of $110 (individual nonmembers) or $285 (institutional nonmembers), including postage. Institutional and individual nonmembers outside of the United States should add $40 to their respective rates to offset periodicals postage costs, which covers the cost of shipping journals by surface mail. (For faster delivery, expedited mailing rates are available by contacting the AACR Publications Department). Canadian subscribers should add 7% GST. Changes of address notification should be sent 60 days in advance and include both old and new addresses. Member subscriptions should send address changes to: Member Services, AACR, Public Ledger Bldg., Suite 826, 150 South Independence Mall West, Philadelphia, PA 19106-3483. Nonmember subscribers should send changes of address to: AACR Subscription Office, P. O. Box 11806, Birmingham, AL 35202. Copies of the journal which are undeliverable because of address changes will be destroyed. Accelerated mailing of all AACR journals to AACR members in Japan is supported by a generous grant from the Banyu Pharmaceutical Company, Tsukuba, Japan.
Notice to Members of the American Association for Cancer Research (AACR)
Officers for 1998–1999
President: Webster K. Cavenee, Ludwig Institute for Cancer Research, La Jolla, CA 92032-0660
President-Elect: Daniel D. Von Hoff, Institute for Drug Development, San Antonio, TX 78245
Treasurer: Bayard D. Clarkson, Memorial Sloan-Kettering Cancer Center, New York, NY 10021
Executive Director: Margaret Foti, AACR, Public Ledger Bldg., Suite 826, Philadelphia, PA 19106-3483

Annual Dues
The annual dues of active members of the AACR are $175, $55 of which may be applied toward a subscription to Cancer Epidemiology, Biomarkers & Prevention. Corresponding members of the Association will be charged an appropriate fee to offset periodicals postage costs. Payment of dues and changes of address of members of the Association should be sent promptly to Margaret Foti, Executive Director, AACR, Public Ledger Bldg., Suite 826, 150 South Independence Mall West, Philadelphia, PA 19106-3483; Telephone: (215) 440-9300; FAX: (215) 440-9313.

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 these three disciplines are welcome 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.

Back Issues and Single Copy Sales of the Journal
Copies of back stock of the journal may be ordered from AACR Subscription Office, P. O. Box 11806, Birmingham, AL 35202 [Telephone: (800) 633-4931 or (205) 995-1567; FAX: (205) 995-1588]. As long as supplies permit, single copies will be sold by this company at $25.00/copy. Orders outside the U.S. add $3.00/copy to offset postage costs.

Advertisements
Advertisement insertion orders and copy must be received one month prior to the date of issue in which the advertisement is to be published. The journal is mailed by approximately the 7th day of the month of issue. Inquiries about advertising should be directed to: M. J. Mrvica Associates, Inc., 2 West Taunton Avenue, Berlin, NJ 08009 [Telephone: (609) 768-9360; FAX: (609) 753-0064].

Copyright and Permissions
Authors who wish to publish in Cancer Epidemiology, Biomarkers & Prevention must formally transfer copyright to the proprietor of the journal, the AACR, Inc. It is understood by this transfer that the authors relinquish all exclusive rights of copyright ownership, including without limitation rights of reproduction, derivation, distribution, sale, and display of the work, in whole or in part, in any and all forms of media now or hereafter known.

Authors who prepared their articles as part of their official duties as employees of the U.S. Federal Government are not required to transfer copyright to the AACR, Inc., since these articles are considered to be in the public domain. In the case of articles supported by federal grants or contracts, copyright transfer to the AACR, Inc., is required. The federal government may retain a nonexclusive license to publish or republish such material.

The Journal will routinely allow authors (or others with the permission of the authors) to include select parts of a copyrighted article in reviews, books, or subsequent papers, upon written request to the AACR Director of Publications. Requests to reproduce an article in its entirety will be considered on an individual basis and permission may be granted contingent upon payment of an appropriate copyright fee. All reproduction requests must include a brief description of intended use and a stamped, self-addressed envelope. Third parties should obtain the approval of the authors before corresponding with the AACR.

Those who wish to photocopy articles should contact the AACR Publications Department [Telephone: (215) 440-9300; FAX: (215) 440-9355].

No responsibility is accepted by the Editors, by the AACR, Inc., by the American Society of Preventive Oncology, or by Cadmus Journal Services for the opinions expressed by contributors or for the content of the advertisements.

Cancer Epidemiology, Biomarkers & Prevention is indexed in Chemical Abstracts, Current Contents/CM®, Index Medicus, MEDLINE, and the BIOSIS Previews® Database. This journal is printed on acid-free paper.

Cancer Epidemiology, Biomarkers & Prevention (ISSN 1055-9965) is published monthly by the American Association for Cancer Research, Inc., Public Ledger Bldg., Suite 826, 150 South Independence Mall West, Philadelphia, PA 19106-3483 for $55 annually for members, $110 for individual nonmembers, and $285 for institutional nonmembers. Periodicals postage paid at Philadelphia, PA and additional mailing offices. POSTMASTER: Send address changes to AACR Subscription Office, P. O. Box 11806, Birmingham, AL 35202. Copyright 1998 by the American Association for Cancer Research, Inc. Printed in the U.S.A.
**Post-Doctoral Traineeships**

Cancer Epidemiology and Prevention

Post-doctoral traineeships for up to three years are available in Cancer Epidemiology and Prevention. Traineeships offer an individual research experience and opportunity to obtain an advanced degree in epidemiology. Positions are available for clinicians, populations specialists, and basic scientists interested in a research track in applied cancer prevention research. Special areas of interest include: cancer epidemiology, chemoprevention, nutritional interventions, cancer biomarkers, endocrinology, and women's cancers. Traineeships offer opportunities for meaningful collaborations among laboratory scientists, clinicians, and epidemiologists.

Applicants must hold a doctoral degree and U.S. citizenship or permanent residency. Stipends are appropriate for training and experience. We encourage applications by minorities and women. Send resumes to:

Dr. Joel L. Weissfeld, MD, MPH
University of Pittsburgh Cancer Institute
3520 Fifth Avenue, Suite 510
Pittsburgh, PA 15213
Phone: 412/383-1500
Email: JWEPID@VMS.CIS.PITT.EDU

The University of Pittsburgh is an Equal Opportunity/Affirmative Action Educational Institution

---

**Cancer Prevention Fellowship**

The Wake Forest University School of Medicine is accepting applications for the Cancer Prevention Fellowship Program, a National Cancer Institute-funded postdoctoral fellowship to train individuals from a multiplicity of health science disciplines for academic careers in cancer prevention and control research. The program provides salary support for up to three years of training and tuition for optional graduate work leading to an MS degree in epidemiology.

**Eligibility:** MD, Ph.D., or other doctoral degree

**Citizenship:** U.S. Citizen or resident alien of U.S. eligible for citizenship within four years

**Request for Information or applications:**

Electra D. Paskett, Ph.D.
Director, Cancer Prevention Fellowship Program
Wake Forest University School of Medicine
Medical Center Boulevard
Winston-Salem, NC 27157
epaskett@rc.phs.wfubmc.edu

---

**CHIEF, NUTRITIONAL EPIDEMIOLOGY BRANCH**

The Division of Cancer Epidemiology and Genetics (DCEG), National Cancer Institute (NCI), is seeking candidates to fill the position of Chief of the Nutritional Epidemiology Branch (NEB). Candidates should be internationally recognized for their expertise leadership, and collaborative capabilities in the area of nutritional epidemiology.

NEB is one of eight branches and a laboratory within the Division’s intramural research program. The Branch conducts studies aimed at identifying the role of diet and nutrition in the etiology of cancer. Emphasis is placed on interdisciplinary studies that integrate epidemiologic, clinical, and laboratory approaches.

The Chief plans, manages and directs the activities of NEB, utilizing intramural resources, contracts, interagency agreements, and extramural collaborations. He/she designs, implements and analyzes epidemiologic and interdisciplinary studies, employing morbidity, mortality and registry data from national and international sources to generate hypotheses on the role of diet and nutrition and their interactions with other factors in the etiology of cancer. Descriptive and analytical studies are undertaken: (1) to generate and test specific hypotheses on the role of diet and nutrition in the etiology of cancer, using clues from epidemiologic, clinical and laboratory research; (2) to assess interactions of diet and nutrition with environmental, genetic and other host factors on cancer risk through interdisciplinary studies; (3) to develop and validate methods to assess the role of diet and nutrition in the etiology of cancer; (4) to develop and utilize dietary and nutritional databases and other resources to facilitate epidemiologic and interdisciplinary studies on the etiology and prevention of cancer; and (5) to elucidate biologic mechanisms of carcinogenesis through epidemiologic and interdisciplinary studies into nutritional determinants of cancer.

Research experience should include extensive interdisciplinary investigations using epidemiologic, clinical and laboratory approaches to study the role of diet and nutrition and their interactions with environmental and host factors in the etiology of cancer. Candidates should also have experience in the administration and management of an epidemiology research program that includes clinical and laboratory components. Candidates must hold a medical or other doctoral-level degree in a relevant scientific field. Nonresident aliens must have a valid employment visa.

The annual salary is commensurate with education and experience, ranging from $77,798 to $151,800. Depending upon the hiring mechanism, an individual having an M.D. degree may receive a Physician’s Comparability Allowance of up to $20,000 per annum.

To obtain more information on this position, please contact Dr. Shelia Hoar Zahn, Chair Search Committee, at (301) 496-8157, FAX: (301) 402-3256, or e-mail: zahms@epndce.nci.nih.gov

NCI is an Equal Opportunity Employer
FACULTY POSITION

UNC
LINEBERGER COMPREHENSIVE CANCER CENTER
SCHOOL OF PUBLIC HEALTH
SCHOOL OF MEDICINE

SOCIAL/BEHAVIORAL SCIENTIST
IN CANCER PREVENTION/CONTROL

The UNC Lineberger Comprehensive Cancer Center and the Schools of Public Health and Medicine of the University of North Carolina at Chapel Hill are seeking one to two tenure-track faculty in the social or behavioral sciences related to cancer prevention and control.

Appointment and rank in an academic department (School of Public Health and/or Medicine) will be determined by the applicant’s qualifications. Successful candidates will be expected to conduct funded research, teach, and advise students/fellows. Minorities and women are encouraged to apply.

Please send a statement of interest, curriculum vitae, and three letters of reference to:

Michael S. O’Malley, Ph.D.
Assistant Director, UNC Lineberger Comprehensive Cancer Center
CB# 7295, University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7295

The University of North Carolina at Chapel Hill is an Affirmative Action/Equal Opportunity Employer.

---

TEXAS A&M UNIVERSITY
Department of Veterinary Anatomy and Public Health

The Department of Veterinary Anatomy and Public Health of the Texas A&M College of Veterinary Medicine invites applications for a tenure track state funded 12-month position for an Associate or Full Professor of epidemiology. The successful candidate will have an established research record with experience in molecular, genetic, or environmental epidemiology. Primary criteria for appointment will be a publication record in peer-reviewed journals, demonstrated accomplishments in securing extramural grants, and evidence of successful teaching. It is anticipated that the new faculty member will participate as a member of the Epidemiology and Biostatistics Research Core of the newly funded Center for Environmental and Rural Health. Teaching duties will be in advanced epidemiologic methods.

Applicants should hold a doctorate in epidemiology, or an M.D. or other terminal health degrees with an M.S. or M.P.H. in epidemiology.

Texas A&M is a land, sea and space grant university with more than 45,000 undergraduate and graduate students, plus medical and veterinary students. A broad range of interdisciplinary research is possible with established campus-wide programs in disciplines such as toxicology, genetics, neuroscience, and nutrition. College Station, home of Texas A&M University, is a mid-sized city located within an hour and a half of either Houston or Austin, Texas.

Candidates should send a curriculum vitae, letter of application, and names and addresses of three references to: Dr. Richard Finnell; Chair, Search Committee; Department of Veterinary Anatomy and Public Health; College of Veterinary Medicine; Texas A&M University; College Station, Texas 77843-4458. For additional information, contact Dr. Richard Finnell at 409-847-8652. Deadline for applications is January 15, or until position is filled.
AMERICAN ASSOCIATION FOR CANCER RESEARCH
90TH ANNUAL MEETING
April 10-14, 1999
Pennsylvania Convention Center, Philadelphia, PA

Abstract Deadline: November 6, 1998

SPECIAL EVENTS

(Topics with Confirmed Speakers/Organizers in Parentheses)

EDUCATIONAL SESSIONS AND METHODS WORKSHOPS (SATURDAY AFTERNOON, APRIL 10, 1999)
To Be Announced

OFFICIAL OPENING EVENT (SUNDAY MORNING, APRIL 11, 1999)
Presidential Address (Webster K. Cavenee)
Plenary Session: New Frontiers in Cancer Research
Genetics (Robert A. Weinberg)
Immunology and Vaccines (Lloyd J. Old)
Therapeutics and Translational Research (Judah Folkman)
Hormonal Intervention and Prevention (C. Kent Osborne)
AACR-Pezcoller International Cancer Research Award Lecture
Special Lecture (James D. Watson)

SYMPOSIA
Animal Models for Human Cancer: Recent Developments, New Challenges (Tyler Jacks)
Advances in Chemoprevention (Raymond N. DuBois)
Infectious Agents and Cancer (Nancy E. Mueller)
Ubiquitin and Protein Degradation (Alexander J. Varshavsky)
Genomics, Genetics, and New Approaches to Cancer (Richard D. Klausner)
Transcriptional Regulation and Cancer (Lorraine J. Gudas)
Drug Discovery: From Basic Science to the Clinic (Daniel D. Von Hoff)
Cancer Vaccines (Ronald Levy)
DNA Repair (Richard D. Kolodner)
Telomeres, Centromeres, and Chromosomal Instability (Carol W. Greider)
Basic and Clinical Approaches to Ovarian Cancer (Robert C. Bast, Jr.)
Gene Environment Interactions in Cancer Etiology (Margaret R. Spitz and Kenneth Oldes)
Apoptosis (Craig B. Thompson)
Molecular Targeted Therapy (John Mendelsohn)
Basic and Clinical Approaches to Lung Cancer (David Paul Carbone)
Diet and Cancer: Process and Paradox (John D. Potter)
Genetic Instability, DNA Damage, and Checkpoint Regulation (Geoffrey Wahl)
Invasion, Metastasis, and Angiogenesis (Isaiah J. Fidler)
Drug Resistance and Cell Cycle Abnormalities (Joseph R. Bertino)
Hormonally Related Tumors - Basic and Clinical Aspects (Bert W. O'Malley and Marc E. Lippman)
Late Breaking Science (Waun Ki Hong and Webster K. Cavenee)
Topoisomerases in Carcinogenesis and Cancer Treatment (Leroy Fong Liu)
Replication and the Cell Cycle (Jacqueline A. Lees)
Future Directions in Research on Tobacco and Cancer (Virginia L. Ernst)
Advances in Stem Cell Gene Therapy (Cynthia E. Dunbar)

FORUMS
Tamoxifen: Risks and Benefits
Ethical and Legal Issues in Genetic Testing

"MEET-THE-EXPERT" SUNRISE SESSIONS
Drug Resistance (Susan P. C. Cole)
Cancer Screening (Barnett S. Kramer)
Molecular Signaling of CML (Jean Y. J. Wang)
Apoptosis and Chemotherapy (John A. Hickman)
Caspases (Nancy A. Thornberry)
Molecular Cyto genetic s (Joe W. Gray)
p53 Gene Therapy-mediated Radio/Chemosensitization (Esther H. Chang)
Clinical and Molecular Genetics of Multiple Endocrine Neoplasia Type 2 (Bruce A. J. Ponder)
Differentiation Therapy (Samuel Waxman)
AIDS-related Malignancies (Ellen G. Feigal)
Tumor Vaccine Therapy (Michael T. Lotze)
Integration of Biological Agents into Radiotherapy (Chang W. Song)
Molecular Detection of Minimal Residual Disease (Theodore F. Ziff)
Microsatellite Instability (David Sidransky)
Chemoprevention Trials: Science vs. Art vs. Fantasy (David S. Alberts)
Genetic Imprinting (Andrew P. Feinberg)
Cancer Metastasis: Cellular and Clinical Studies (David Tarin)
Embryonal Stem-cell-based Technology (Randall Johnson)
Replicative Senescence (Judith Campisi)
Drug Design and Development (Randall K. Johnson)
In Vivo Imaging of Gene Expression in Solid Tumors (Ralph Weissleder)
The RB Family and CDKs in the Cell Cycle in Cancer (Antonio Giordano)
Prospects for Biological Agents (Peter J. Houghton)
Disorders in Cell Circuity in Cancer (bcl2: Its Family and Modification (Timothy J. McDonnell)
Chemoprevention in Respiratory Cancer (Lee W. Wattenberg)
TGF-β and Colon Cancer (Sanford Markowitz)
Inherited Susceptibility to Breast and Ovarian Cancers (Funmi I. Olopade)
VEGF (Harold F. Dvorak)
Origins of Melanoma (Margaret A. Tucker)
Biology of Premalignant Lesions (Walter N. Hittalman)
Genetic Determinants of Prostate Cancer (William B. Isaacs)
DNA Repair: Breaking Cycle-specific Constraints in Combination Therapy (William K. Plunkett)
Antisense Therapies (Stanley T. Crooke)
Small Molecule Inhibitors of Protein Kinases That Block Tumor Angiogenesis for the Treatment of Cancer and Metastasis (Jerry McMahon)
Integration of Biological Agents into Chemotherapy (Herbert M. Pinedo)
New Therapeutic Agents (Michaele C. Christian)
myc (Chi Van Dang)
Isolation of Genes Regulated by p53 or Beta-catenin and Their Roles in Human Carcinogenesis (Yusuke Nakamura)
Behavioral Oncology (Barbara K. Rimer)
Mdm2 (Guillermina Lozano)
Molecular Processes in DNA Repair After Irradiation (Gloria C. Li)
Natural Agents and Chemoprevention (Hirotaka Fujiki)
Genetics of Wilms Tumor (Michael R. DeBaun)
Call For Abstracts: Oral, Poster and Workshop Presentations
Abstract Deadline: Dec. 18, 1998
Abstracts should address the special needs of minorities and medically underserved populations.

Focus
- Basic to applied cancer research, including laboratory, clinical and behavioral
- Community-based cancer program research and evaluation
- Model program demonstration and/or technical assistance workshops

For Abstract Information Contact:
Carlotta V. Handcock, M. Ed.
7th Biennial Symposium
1720 Dryden, Suite C
Houston, Texas 77030
Tel: (713) 798-5383 Fax: (713) 798-3990
e-mail: symposium@bcm.tmc.edu

Register For The Symposium Online:
http://www.iccregisternow.com

For Registration and Hotel Information:
Call toll-free: 1-877-BIENNIAL (1-877-243-6642)