EMPLOYMENT REGISTER
OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH

The advertisements below were submitted by prospective candidates and employers in the AACR Employment Register by December 1, 1997 and were updated by September 14, 1998. Employers participating in the Employment Register may obtain information on the candidates in these advertisements and participating candidates may obtain information on positions in these advertisements by submitting a written request to: AACR Employment Register, Public Ledger Building, Suite 826, 150 South Independence Mall West, Philadelphia, PA 19106-3483. The request should give the identification number(s) appearing in the upper left-hand corner of the desired advertisement(s) and should include the registrant's own identification number or a completed employment register form with the appropriate fee attached. Forms were sent to all AACR members in the fall of 1997. They were also printed in the First Announcement of the Annual Meeting and in the November 15, 1997 issue of Cancer Research.

Advertisements from all current participants in the Employment Register that were originally scheduled to appear in the September 1, 1998 issue of Cancer Research are printed below. These advertisements are also scheduled to run in the November 1, 1998 issue.

POSITION LISTINGS

P-3100 Instructor/Assistant Professor positions (tenure track) in molecular and cellular immunology. Direct research in a team environment with focus on tumor vaccines, cellular immunity or development of cytokine contact pharmacophores. Applicants should have Ph.D., MD or DVM with two or more years of research experience. Available Dec. 1997. Contact Dr. James E. Talmadge, UNMC, 600 South 42nd Street, Omaha, NE 68198-5660.

P-3101 Postdoctoral fellow in Cancer Epidemiology. Fellows will have extensive opportunities to participate in research in cancer epidemiology, including cancer etiology, cancer control and prevention. Doctorate degree in epidemiology or M.D. or Ph.D. required. U.S. citizen or permanent resident required. Available immediately. $20-35,000. Contact J. Vena, Soc. & Prev. Med., Univ. at Buffalo, (716) 829-2975.


P-3103 Postdoctoral research position. 1. molecular mechanism of spontaneous mutagenesis. 2. mechanism of inhibition of DNA repair by arsenite. Both projects involve molecular biology (Northers, PCR, Sequencing). Available. 4/98. $22,000-30,000. Contact Dr. Toby Rossmann, Nelson Institute of Environmental Health at New York University Medical Center, Tuxedo, New York. E-mail: rosman@charlotte.med.nyu.edu.

P-3104 Postdoctoral research fellow. Education and experience required. A M.D. and/or Ph.D. degree in molecular biology or allied field. Training in tumor biology, cell culture, signal transduction, and gene expression analysis is essential. Fellowship and/or postdoctoral research experience is encouraged but not essential. Contact Dan Mercola, Sidney Kimmel Cancer Center, San Diego, CA 92121. E-mail: danmercola@sccr.org.

P-3105 Postdoctoral fellowship in Mol. Biol. of Tumor Suppressor Genes. Independent researcher on the molecular mechanisms of NF1, NF2 and TSC2 tumor suppressor gene function including animal models, signal transduction and identification of protein interactors. Available immediately. Contact Dr. O. K. McCarroll, University of Wisconsin-Madison, 514/362-9462. E-mail: guthmann@neuro.wustl.edu.

P-3106 Sanford Markowitz, Tenured Professor, member of the Howard Hughes Medical Institute, offers Postdoc to conduct research on colon cancer oncogenes, suppressor genes, and cell biology. Available June 1998. Case Western Reserve University Cancer Center, Cleveland, OH 44106.


P-3108 Cancer Prevention Fellow. NCI-funded postdoctoral fellowship for persons from multiplicity of disciplines for training in cancer prevention research. Up to 3 years salary, tuition for MS in Epidemiology option, travel and research expenses. Available summer 1998 or after. Contact Electra Paskett, Ph.D., Wake Forest University School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157.

P-3109 Postdoctoral Fellow in the Radiation Sciences—U.S. DOE-supported Program for multidisciplinary training focusing on the health effects of ionizing radiation exposure. Two-three year Program including classroom, research and field training. Available immediately—Fall 1998. $33,500-$36,000/Y. Contact: Dr. Niel Wald, University of Pittsburgh. Phone: (412) 624-3155; E-mail: wald@vms.cis.pitt.edu.


P-3111 Postdoctoral Fellow. Research on differential gene and protein expression in response to hormone and/or cytokines early 1998. $25,000-$35,000. Contact Dr. Michael McClelland, Dept. of Molecular Biology, Sidney Kimmel Cancer Center, San Diego, CA 92121. E-mail: mmcclelland@sccr.org.


P-3113 Postdoc, position, Ph.D.,M.D. Molecular and cellular responses to stress: signal transduction, post-transcriptional control of gene expression, cell cycle regulation and implications for survival. Candidates with strong background in molecular biology encouraged to apply. $27,000-30,000. Available 6/98. Contact Dr. Myriam Gorospe, Natl. Inst. of Health, Box 12, GRC, 4940 Eastern Ave, Baltimore, Maryland 21224. E-mail: myriam-gorospe@nih.gov.

P-3114 Postdoc position available. Associate level in neurobiology or pharmacology related to CNS malignancies. Must develop research program that interfaces Department of Neurosci. and Clinical Brain Tumor Prog. at National Institutes of Health. Part of NCI-funded Pharmacoeutical Sci., which focuses on improving drug therapy through enhanced understanding of the genetic, developmental, and environmentally regulated factors that effect protein expression and effects. Contact Dr. W.E. Evans, St. Jude Children's Research Hospital, Memphis, TN.

P-3115 Postdoc/research associate—University of California-San Francisco. Looking for career-minded individuals with an interest in 1) regulation of gene expression via chromatin structure/DNA methylation or 2) cell regulation and genomic stability. Molecular experience desirable. Ability to think creatively and interact with others a definite plus. Available Sept. 1998. Competitive salary. Contact Dr. Russ Siegel, Cancer Research Center, UCSF Cancer Center, San Francisco, CA 94143-0128. Phone: (415) 476-7673; E-mail: rsiegel@usrx.ucsf.edu.

P-3116 Molecular Epidemiologist, Assoc. Member (Tenure track). Conduct independent laboratory research on cancerogen exposure and markers of cancer susceptibility. Collaborate with epidemiologists and molecular biologists to study populations at increased risk for cancer. No teaching responsibilities. Available. $40-50,000. Contact Dr. W.T. London, Div. of Population Science, Fox Chase Cancer Center, 7701 Burholme Ave., Phila, PA 19111. E-mail: wt.london@fccc.edu.

P-3117 Postdoctoral position available within the University of Pittsburgh Cancer Institute, an NCI-designated Comprehensive Cancer Center, to study molecular and signal transduction-related regulation of DNA topoisomerase II in anticancer drug resistance. Candidates should have a strong background in molecular biology/pharmacology. Starting date is flexible and salary negotiable. Contact Dr. Jack C. Yalowich, Department of Pharmacology, University of Pittsburgh School of Medicine, W1355 Biomedical Sciences Tower, Pittsburgh, PA 15261. E-mail: Yalowich+@pitt.edu.


P-3119 Postdoctoral position(s). To study function of newly discovered genes and transcription factors involved in colon, pancreatic, prostatic, and lung cancers. Involves membrane proteins with links to signal transduction, proliferation, immunity, and immunohistochemistry, cell cycle transfection, bacterial expression, library screening, site-directed mutagenesis, in vitro and in vivo assays of tumorigenesis, and in vivo tumor models. Permanent resident or U.S. citizen preferred. Applicants with Ph.D. or M.D. and strong molecular/cellular biology background contact C. Schweinfest or D. Watson, MUSC, 171 Ashley Ave., Charleston, SC 29425. Phone: (803) 796-8425; E-mail: schweinfest@musc.edu, or watsondk@musc.edu.

P-3120 Postdoctoral Assoc., Biochemistry/Carcinogenes. To characterize extrahepatic cytochrome P450s involved in epohephal carcinogene-sis. Applicants should have a Ph.D. in Biochemistry or a related area, a strong background in drug/ carcinogen metabolism, and experience with both molecular biology and biochemical techniques. Available Jan. 1998. $24,000—$27,000. Contact Dr. S.E. Murphy, Univ. of Minnesota Cancer Center, Box
of the cellular DNA polymerase present in breast cancer cells. Avail. immed. $21–25K. Contact Dr. Robert J. Hickey, Dept. of Pharmacology, Univ. of Maryland School of Medicine, 685 W. Baltimore, MD 21201. Phone: 410-767-2313; Fax: 410-767-0032.

P-3149 Postdoctoral positions available immediately at Johns Hopkins Cancer investigators. A strong background in molecular pharmacology/biology is desirable. Contact Dr. Steven Grant, Division of Hematology/ Oncology, MCV Station Box 230, Richmond, VA 23298.

P-3158 Postdoc. Fellow to study interaction of transcription factors during mouse skin carcinogenesis and to evaluate potential targets for US citizens. Contact Dr. C. Jan. 1999. Available immediately. Salary negotiable. Contact Dr. H. T. Sloan-Kettering Cancer Research Center, 1600 Pierce St., Denver, CO 80214. E-mail: Buenvival@amc.org.

P-3161 Asst., Assoc., Full Prof. in Cancer, Immunology, and Molecular Biology. Current positions available immediately. Salary: Commensurate with qual. and exp. Contact: Sept. 1998. Contact Chair, Search Committee, Comprehensive Cancer Center of Wake Forest University, Medical Center Blvd., Winston-Salem, NC 27157-1053.

P-3162 Asst. Prof. (tenure track) (Ph.D. or M.D.) in the Dept. of Pathology to conduct independent research in the cell and/or molecular biology of neoplasia. Current Cancer paralysis. Contact Chair, Dept. of Pathology, Wake Forest Univ. School of Medicine, Winston-Salem, NC 27157.


P-3164 Postdoc. in Mol./Cell. Biology. Gene knockout project aimed at understanding skin differ- entiation and tumorigenesis. Mol. Biol. exp. required. Preference given for exp. in gene targeting and/or skin biology. Contact John L. Clifford, Ph.D., Department of Medical Cancer Prevention, M.D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX 77231, Phone: 713-792-7711.

P-3166 Postdoctoral fellow in Cancer Genetics. Evaluate apoptosis induction in transgenic mouse models and characterizes mouse—specific immune responses. Available July 1998. Contact: Dr. Martin S. Wroblewski, Director, Cancer Genetics Core Laboratory, Transgenic and Xenograft Laboratory, Medical Oncology, University of Missouri Cancer Center, 1000 E. Broadway, Columbia, MO 65201, Phone: 800-523-5544.

P-3167 Postdoctoral Associate position to study the molecular genetics of tumor suppressor gene expression in ovarian cancer with a goal of establishing novel gene therapy strategies. Molecular biology experience required. Contact Dr. R. E. Buller, M.D., Ob/Gyn, University of Iowa, Iowa City, IA 52242-1009.

P-3168 Postdoctoral Fellow or Research Associate, Ph.D. with experience in molecular and cellular biology to conduct independent research in the area of breast cancer molecular tumor biology. Research will be focused on exploring the mecha- nisms underlying the acquisition of hormone inde- pendence, antiestrogen resistance, and a metastatic phenotype. Excellent oral and written communicat- ing skills and experience in conducting research in molecular techniques, signal transduction, steroid receptors, or angiogenesis preferred. Available immediately. Salary $28,000–$45,000 depending on background and experience. Contact Dr. Cyril Everson, M.D., Ph.D., Southern Research Institute, Birmingham, AL.

P-3169 Postdoc. Res. Sci. on Molecular Epidemiology training grant. Background in lab research, epi, or computational biology required. Independent research in biomarker studies. Several positions available. Available immediately. Salary $20,000–$32,000. Contact Dr. R. M. Santella, Columbia Univ., 701 West 168th St, New York, NY 10032.

P-3170 Postdoctoral Position/Research Associate with experience and interest in molecular biology, DNA repair, transgenic mouse systems, mutagenesis, carcinogenesis, tumor screening and analysis, and protein purification. Salary negotiable. Available immediately. Contact Dr. Zhiyan Shen, Cancer Center (MC 568), The University of Illinois at Chicago, 824 S. Ashland, Chicago, IL 60607. E-mail: zshen@uic.edu.

P-3171 Postdoctoral position to study specific genes altered during the malignant progression of human astrocytoma and elucidate their biological functions through a variety of approaches. Available immediately. Contact Dr. G. Zshen, zshen@uic.edu.

P-3179 Postdoctoral research position in the Laboratory of Dr. Steve Malek. The contribution of dihydrodiol dehydrogenases (DD) to the metabolic activation of procarcinogens will be studied by using a recombinant approach. Transfect PAH-target cells with human DD cDNAs and assess the formation of redox-active quinones, 8-OH-dG and stable and degradating quinone-DNA adducts. Available. Immediate. Salary $25,000-$35,000. New Research Building. Contact Dr. William F. Benedict, Professor of Medicine, Box 81, M.D. Anderson Cancer Center, Houston, Texas 77030.

P-3205 Postdoctoral Research Fellowship at the Schepps Eye Research Institute, Harvard Medical School, Ocular Gene Therapy Program Project: gene therapy for the study of ocular inflammation. "Candidates should have a Ph.D. or M.D. degree and graduate level research experience in either cellular immunology, tumor immunology, or molecular biology. Research project will utilize the discovery of novel principles in the eye to study the development of ocular mela-noma. In addition, genetically altered tumor cells will be used to terminate ocular immune privilege and tumor-specific immune responses. This re-search project is part of a larger program project and includes five investigators. Fellows and faculty from all research programs will participate in the rich academic environment at the Schepens Institute. Contact Dr. Bruce Kaander, Schepens Eye Research Institute, 20 Stanford Street, Boston, MA, 02114. Fax: 617-912-0101; E-mail: ksander@vision.eri.harvard.edu.

P-3207 Postdoctoral fellow to study steroid receptor function. Projects include regulation of progesterone receptor function by cell signaling pathway and functional characterization of androgen receptor function in prostate cancer. Avail. immediately. $20,000-$26,000 depending upon experience. Contact Dr. Nancy Weigel, Dept. of Cell Biology, Baylor College of Medicine, Houston, Texas 77030.

P-3209 Position will be part of a team that is focused on discovering and evaluating therapeutic target candidates using cutting-edge, high-throughput technologies. The individual will have expertise in the discovery and development of novel therapeutics and use these tools to improve the identification of therapeutic proteins or drug targets, as demonstrated by publications and/or patents. Some experience in applied high-throughput biology and/or genetics is essential. Experience in cloning or drug screening is preferred. Application should have a Ph.D. in molecular and cell biology or a B.S. in biology or a related field in biotechnology.

P-3210 This position will involve the discovery and evaluation of therapeutic target candidates using new, high-throughput technologies. The successful applicant will be familiar with: molecular biology, including nucleic acid hybridization, probe preparation, CR, DNA, and RNA preparation, cDNA library construction and screening, and experience in tis-
Taiwan.

Send candidates for Cancer Research, Glasgow, Scotland. The Institute has a rolling program of three postdoctoral positions, with possible extension for a fourth year, to work on a variety of molecular biology projects, up to and including the National Institutes of Health grant. Apply by 10/15.

P-3311 Two Postdoctoral Fellowships available immediately to study: (1) Genetic instability, re- responses to DNA damage, and carcinogenesis in transformed human cells; and (2) Novel strategies for targeted genome modification via triplex helix forming oligonucleotides and peptide nucleic acids. Please send CV and refs. to: Dr. Glazer, M.D., Ph.D., Yale University School of Medicine, Boyer Center for Molecular Medicine, Boyer Center for Molecular Medicine, Boyer Center for Molecular Medicine, Boyer Center for Molecular Medicine, Boyer Center for Molecular Medicine.

Taipei, Taiwan.

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Contact Dr. M. G. Brattain, Dept. of Surgery, Univ. of TX Health Science Center, San Antonio, TX.  

P-3260 Postdoctoral position available immediately in the area of neuroepitope and cell-surface peptide involvement in prostate cancer (Nature Med. Jan. 97) including in situ geneg and cell cycle control. Background in molecular and cell biology preferred. Position available until May 1, 1998. Contact Dr. M. Story or W. Brock, Dept. of Experimental Radiation Oncology, M. D. Anderson Cancer Center, Houston, TX.

P-3263 Postdoctoral position available to study the regulation of transcription of transformed cells by hybrid polar agents. Applicants should have a strong background in molecular and cellular biology and experience in eukaryotic cell culture, DNA cloning and protein analysis. Available immediately. Please send CV and 3 letters of recommendation to: Richard A. Rifkind, M.D. Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. E-mail: v-richmon@mskcc.org.

P-3254 The Division of Hematology-Oncology, University of Cincinnati (UC) and the Cincinnati Veterans Administration Medical Center (VAMC). Asst. or Assoc. Prof. level. Individuals with strong, independent research programs are particularly encouraged to apply. Started up is available to establish a new basic or translational research lab. M.D. or Ph.D. or M.D./Ph.D. required. Salary: $40-50K. Contact Lewis E. Childs, M.D. Phone: (513) 558-6058. E-mail: lewchildc@uc.edu.


P-3257 Postdoc. for genomic proteomic studies in molec. pharmac. With collaborators, we are expression-profiling cancer cells at the RNA and pro-tein levels (cDNA chip and 2-gel technol. for informativ bkgd, see Weinstein et al., Science 275: 343, 1997. $30-50K. Avail. after April 1998. Contact Dr. J. N. Weinshilboum, Weinshilboum Research Foundation, 3117 Grady Dr. N.E., Atlanta, GA 30322. Phone: (404) 328-2922.


P-3260 Postdoctoral research associate, nitric oxide and nitric oxide mediated signaling. Cellular regu-lation of nitric oxide synthase oncogene regulating oxidant status of tumor cells, adherence and meta- stasis. Contact Dr. Diane E. Heck, Dept. of Phar-macology and Toxicology, Rutgers University, Piscataway, NJ. Phone: (732) 445-0129, E-mail: dheck@ch.esi.rutgers.edu.


P-3249 Postdoc. in mol. cell bio/genetics. HIV/SIV. 0-3 yrs. exp. $29-32K. Contact SAIC Frederick, M.D., Weinshilboum Research Foundation, 3117 Grady Dr. N.E., Atlanta, GA 30322. Phone: (404) 328-2922.

P-3248 Postdoc. in mol. in bio/immunobiochem.; genetic engineering. 0-3 yrs. exp. $29-32K (pro-posed). Contact SAIC Frederick, M.D., Weinshilboum Research Foundation, 3117 Grady Dr. N.E., Atlanta, GA 30322. Phone: (404) 328-2922.

P-3255 Postdoc. in mol. in bio/immunobiochem.; developmental biology. 0-3 yrs. exp. $29-32K. Contact SAIC Frederick, M.D., Weinshilboum Research Foundation, 3117 Grady Dr. N.E., Atlanta, GA 30322. Phone: (404) 328-2922.

P-3254 Postdoctoral Fellowship in Radiation Oncology. Conduct research on radiation-induced apoptosis and Bcl-2. Available now. Salary dependent on personal financial needs. Contact: Susan Knox, M.D., Ph.D., Department of Radiation Oncology, Stanford University Medical Center, 300 Pasteur Drive, Stanford, CA 94305.

P-3248 Scientist, Protein/peptide structure. Bioin-formatics & computational bio. 3 yrs. exp. $40-53K. Contact SAIC Frederick, HC, NCI-FCRD, Frederick, MD. M.E-mail: hr@mail.niclcrf.gov. Avail. now.

P-3249 Research Assistant in Protein Analysis. Bioinformatics. Evaluate, design, & implement novel algorithms. Available now. $40-50K. Contact SAIC Frederick, HC, NCI-FCRD, Frederick, MD. M.E-mail: hr@mail.niclcrf.gov. Avail. now.

P-3250 Postdoc. in mol. cell bio/gene expression data analysis. 0-3 yrs. exp. $29-32K. Contact SAIC Frederick, M.D., Weinshilboum Research Foundation, 3117 Grady Dr. N.E., Atlanta, GA 30322. Phone: (404) 328-2922.


C-1748 B.S. & 5 yrs clinical research experience. Available immediately.


First Announcement

90th Annual Meeting

American Association for Cancer Research

April 10-14, 1999
Philadelphia, Pennsylvania

The World’s Top Multidisciplinary Program in The Cancer Field

Presenting The Most Up-To-Date Information in Basic, Translational, and Clinical Cancer Research

In This Booklet:
• Abstract Submission Forms and Instructions
• Program Information
• Information on Awards for Basic, Translational, and Clinical Investigators
• Registration and Housing Information
• AACR Membership Application Forms
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 (Waun Ki Hong)
- Genetics (Robert A. Weinberg)
- Immunology and Vaccines (Lloyd J. Old)
- Therapeutics and Translational Research (Judah Folkman)
- Hormonal Intervention and Prevention (C. Kent Osborne)
AAAC-Pezoller International Cancer Research Award Lecture
Special Lecture (James D. Watson)

SYMPOSIA
Drug Discovery: From Basic Science to the Clinic (Daniel D. Von Hoff)
Animal Models for Human Cancer: Recent Developments and New Challenges (Tyler Jacks)
Stem Cell Gene Therapy (Cynthia E. Dunbar)
Basic and Clinical Approaches to Lung Cancer (David P. Carbone)
- Basic and Clinical Approaches to Ovarian Cancer (Robert C. Bart, Jr.)
- Hormonally Related Tumors - Basic and Clinical Aspects (Bert W. O'Malley and Marc E. Lippman)
Dendritic Cell Vaccines (Ronald Levy)
Topoisomerase II in Carcinogenesis and Cancer Treatment (Leroy F. Liu)
- Infectious Agents and Cancer (Nancy E. Mueller)
- Advances in Chemoprevention (Raymond N. DuBois)
- Diet and Cancer (John D. Potter)
- Signal Transduction (Geoffrey M. Wahl)
- Genomics, Genetics, and New Approaches to Cancer (Richard D. Klausner)
- Confronting the Tobacco Epidemic (Virginia L. Earnest)
- Apoptosis (Craig B. Thompson)
- Telomeres, Centromeres, and Chromosomal Instability (Carol W. Greider)
- Genetic Instability, DNA Damage, and Checkpoint Regulation (Geoffrey M. Wahl)
- Invasion, Metastasis, and Angiogenesis (Isaiah J. Fidler)
- DNA Repair (Brian D. Druker)
- Ubiquitin and Protein Degradation (Alexander Varshavsky)
- Gene-Environment and Gene-Gene Interactions (Kenneth Olden and Margaret R. Spitz)
- Replication and the Cell Cycle (Jacqueline A. Lee)
- Transcriptional Regulation and Cancer (Lorraine J. Gudas)
- Drug Resistance and Cell Cycle Gene Abnormalities (Joseph R. Bertino)
- Late-Breaking Science (Speakers To Be Selected Shortly Before the Meeting)

“MEET-THE-EXPERT” SUNRISE SESSIONS
Drug Resistance (Susan P. Cole)
- Molecular Detection of Minimal Residual Disease (Theodore F. Zipf)
- Cancer Screening (Barrett S. Kramer)
- Microsatellite Instability Design of Chemoprevention Trials (David S. Alberts)
- Genetic Imprinting (Miranda W. Honbay)
- Molecular Signaling of CML (Jean Y. Wang)
- Cancer Metastasis: Cellular and Clinical Studies (David Tarin)
- Embryonal Stem-Cell-based Technology (Randall S. Johnson)
- bcl-2: Its Family and Modification (Timothy J. McDonnell)
- Apoptosis and Chemotherapy (John A. Hickman)
- Caspases (Judith Campisi)
- DNA Damage and Checkpoint Control (Randall S. Johnson)
- Yeast Systems for Drug Discovery (Robert S. Galvin)
- In vivo Imaging of Gene Expression in Solid Tumors (Ralph Weissleder)
- Molecular Cytogenetics (Joe W. Gray)
- Genetic Determinants of Prostate Cancer (Joel R. Orkin)
- Chromatin (Nancy R. Sorensen)
- p53 Gene Therapy-mediated Radio/Chemosensitization (Esther H. Chang)
- TGFβ and Colon Cancer (Susan J. Wargotz)
- Inherited Susceptibility to Breast and Ovarian Cancers (Fumiko I. Olopade)
- VEGF (Bernd H. Muller)
- Genetics of Multiple Endocrine Neoplasia II (MEN II) (Bruce A. J. Ponder)
- Differentiation Therapy (Samuel Waxman)
- Small Molecule Therapeutics (Robert S. Galvin)
- Molecular Processes in DNA Repair after Irradiation (Gloria C. Li)
- Integration of Biological Agents into Chemotherapy (David A. Haber)
- New Therapeutic Agents (Susan P. Cole)
- myc (Barbara K. Rimer)
- AIDS-related Malignancies (Ellen Feigal)
- Molecular Genetics of Colon Cancer (Robert S. Galvin)
- Behavioral Oncology (Barbara K. Rimer)
- Mdm2 (Guillermima Lorenzo)
- Origins of Melanoma (Margaret A. Tucker)
- Natural Agents and Chemoprevention (Hirota Fujiki)
- Tumor Vaccine Therapy (Michael T. Lotze)
- Genetics of Wilms Tumor (Michael R. DeBau)
- Biology of Premalignant Lesions (Walter N. Hittelman)
- Prospects for Biological Agents (Peter J. Houghton)
- Antibodies as Chemotherapeutic Agents (David S. Alber)
- Antisense Therapies (Stanley T. Crooke)
- EGF Receptor Blockade (John Mendelsohn)

FORUMS
- Tamoxifen: Risks and Benefits (Raymond DuBois)
- Ethical and Legal Issues in Genetic Testing (Deborah C. Gruber)

Further Information: AACR Office • Public Ledger Building, Suite 826 •
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Members listed on page 33

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Additional members to be appointed

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Robert F. Ozols, Chairperson
Members to be appointed

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Be sure to fill out and return the acknowledgment card included with these instructions.
Dear Colleague:

We are very excited about the upcoming 1999 Annual Meeting Program and believe that once you have reviewed this Call for Abstracts, you will share our excitement. For the last five months I have been working along with the Program Committee Co-Chairpersons (Joe Fraumeni, Carol Greider, and Leroy Liu) and other members of the Committee to survey the entire field of cancer research and to identify both today's most rapidly developing research areas and the most appropriate scientists to organize the sessions in which these new data will be presented. We have made special efforts to ensure that the Program properly reflects the exciting progress in translational research that is taking place in many areas of the cancer field. A great deal of work still needs to be done on the Program, especially the review and scheduling of the important abstracts you will submit. However, if the progress made to date is any indication, the meeting in Philadelphia will be an outstanding one. We would like to highlight below some of the important features of the meeting and draw your attention to some of the important information in this booklet.

Symposia and "Meet-the-Expert" Sunrise Sessions. The list of special sessions on the inside front cover of this booklet shows the considerable progress we have already made on the major symposia and the "meet-the-expert" sunrise sessions to take place this April. We anticipate that all cancer researchers, regardless of their scientific specialties, will find a good number of these sessions of intense interest. Of course, this list becomes more complete almost daily as more scientists accept our invitations to organize these sessions. Please consult the Association's Website (http://www.aacr.org) for regular updates.

We are very grateful to the nearly 50 Chairpersons of the various subcommittees of the Program Committee who made the initial suggestions from which the lists of symposia and sunrise sessions were developed. Clearly, without their insights and timely responses to our memoranda and questionnaires, the 1999 Program would have not been as comprehensive or exciting.

Opening Event. We would like to draw your particular attention to the Opening Event, "New Frontiers in Cancer Research," on Sunday morning, April 11. After Web Cavenee's Presidential Address, four outstanding scientists (Robert A. Weinberg, Lloyd J. Old, Judah Folkman, and C. Kent Osborne) will give overviews of the most important developments in their respective fields. This plenary session will be followed by the 1999 AACR-Pezcoller International Cancer Research Award Lecture and then finally by a new feature of the annual meeting, an inspiring Nobel Laureate Lecture. We are very pleased to announce that James D. Watson has agreed to present this talk.

Submission of Abstracts. The principal goal of this booklet is to give you the information you need to submit an abstract of your work for presentation at the meeting. We urge you to do so because your participation is essential to the meeting's goal of presenting all of the latest research findings in all of the subdisciplines of cancer research.

The abstract categories and subclassifications were reorganized last year to reflect new advances in the field. These should make it easier for you to categorize your work and ensure that it is reviewed by the most appropriate members of the Program Committee. Please review this list (Pages 10-12) and then carefully follow the instructions on Pages 5-9 as you prepare and submit your abstract.

Late-Breaking Sessions. Another innovation this year is the addition of a second session of late-breaking papers, one which consists of invited presentations. As the pace of scientific discovery accelerates, it is essential that we develop new procedures to ensure that our meeting presents the most up-to-date and novel information. This Fall and Winter, Web Cavenee, the Program Committee Co-Chairpersons (Joe Fraumeni, Carol Greider, and Leroy Liu), and I will be closely monitoring scientific developments and will then ask scientists doing particularly important new work to make presentations in a special symposium which Web and I will chair on Wednesday, April 14. The meeting will still feature the session of proffered late-breaking papers that has become so popular since its inception in 1995. As you know, the latter session consists of important work completed after the abstract deadline of November 6, 1998; this event will take place late on Tuesday morning, April 13. If enough high-quality abstracts are received by this year's deadline (March 12, 1999), this session will again consist of both oral and poster presentations.

You can contribute to the success of both of these sessions. If you are aware of particularly exciting new work that would be appropriate for the late-breaking symposium of invited speakers, please let us know about it. We anticipate issuing invitations to these speakers around January 15, 1999. Also, if you yourself make an important discovery after the November 6, 1998, deadline, be sure to submit an abstract for the late-breaking session of proffered papers by March 12.

Registration/Housing. Both the Local Arrangements Committee, which Bob Ozols is chairing, and the AACR Staff are looking forward to welcoming you to their home city. For the first time the AACR is offering a discounted, "early bird" registration rate (deadline of December 1, 1998). Many scientists make their decisions to attend the annual meeting well in advance, and we want to reward this loyalty with our new registration feature. See Page 31 for details.

Registrants may make hotel reservations via telephone, FAX, or the Internet. Complete instructions and information about participating hotels can be found on Pages 23-28. As we anticipate an even larger attendance than last year, the AACR has reserved over 1,000 more hotel rooms for the Philadelphia meeting than were reserved in New Orleans. About 3,000 of these rooms are within a 10-block radius of the Pennsylvania Convention Center (the site of scientific sessions), and all of them are less than a 30-minute drive from the Center.

Complimentary shuttle buses will be provided between the Center and all meeting hotels except the Philadelphia Marriott, the Association's headquarters hotel. (The Marriott is connected to the Center.) You will see from the information provided that the majority of the hotels outside the vicinity of the Center are located at the Philadelphia airport for convenient arrivals and departures.

Summary. We hope you will consider this booklet to be your invitation to submit an abstract, register for the meeting, obtain a hotel room, and attend the 90th Annual Meeting of the AACR this April. If you are not already a member of the Association, please also consider submitting an application at this time so that you can enjoy all of the benefits of membership, including significantly reduced registration rates for this and other AACR scientific meetings. Established scientists will find the application for active or corresponding membership on Pages 19-20. The next deadline for submission is January 1, 1999. Graduate and medical students, postdoctoral fellows, and physicians in training will find the associate member application on Pages 21-22. Please note that these applications may be submitted at any time but must be received by February 15, 1999, to qualify for reduced registration rates.

With your participation the AACR Annual Meeting will continue to be the world's most important venue for the presentation of high-quality basic, translational, and clinical cancer research, the meeting that no cancer researcher can afford to miss. We look forward to seeing you in Philadelphia.

Very truly yours,

Waun Ki Hong, M.D.
1999 Program Committee Chairperson
### 1999 AACR ANNUAL MEETING SCHEDULE OF EVENTS

#### SATURDAY, APRIL 10
- **8:00 a.m.-2:00 p.m.**
  - Associate Member Grant-writing Session
- **9:30 a.m.-12:00 noon**
  - Public Forum
- **12:00 noon-2:00 p.m.**
  - Educational Sessions
- **2:00-6:00 p.m.**
  - Methods Workshops
- **2:15-4:15 p.m.**
  - Educational Sessions
- **4:30-6:30 p.m.**
  - Educational Sessions
- **6:30-8:30 p.m.**
  - WICR Guest Lecture and Reception
- **8:00-10:00 p.m.**
  - Opening Mixer

#### MONDAY, APRIL 12 (CONT.)
- **1:00-2:15 p.m.**
  - NCI Board of Scientific Advisors Session
- **1:00-5:00 p.m.**
  - Poster and Poster Discussion Sessions
- **1:15-2:15 p.m.**
  - American Cancer Society Lecture
- **1:30-5:00 p.m.**
  - Minisymposia
- **2:30-5:00 p.m.**
  - Symposia
- **5:15-6:15 p.m.**
  - Rhoads Award Lecture
- **6:30-8:30 p.m.**
  - WICR Business Meeting
- **7:00-8:30 p.m.**
  - NCI Training Branch Workshop

#### SUNDAY, APRIL 11
- **7:00-8:00 a.m.**
  - Meet-the-Expert Sunrise Sessions
- **7:00-8:00 a.m.**
  - NIH Grants Session
- **8:00 a.m.-12:00 noon**
  - Poster Sessions
- **8:00-9:00 a.m.**
  - Presidential Address and Elion Award and Fellowships Presentations
- **9:00 a.m.-11:00 a.m.**
  - Plenary Session
- **11:00 a.m.-12:00 noon**
  - AACR-Pezcoller Award Lecture
- **12:00 noon-1:00 p.m.**
  - Nobel Laureate Lecture
- **12:00 noon-5:00 p.m.**
  - Exhibit Show Open
- **1:15-5:15 p.m.**
  - Poster and Poster Discussion Sessions
- **1:15-2:15 p.m.**
  - Associate Member Business Meeting
- **1:30-5:00 p.m.**
  - Minisymposia
- **2:15-4:45 p.m.**
  - Symposia
- **5:00-6:00 p.m.**
  - Clowes Award Lecture
- **6:30-8:30 p.m.**
  - Minority Issues Committee Careers Symposium
- **9:00-11:30 p.m.**
  - Annual Reception

#### MONDAY, APRIL 12
- **7:00-8:00 a.m.**
  - Meet-the-Expert Sunrise Sessions
- **7:00-8:00 a.m.**
  - WICR Mentoring Session
- **8:00-10:30 a.m.**
  - Symposia
- **8:00 a.m.-12:00 noon**
  - Poster and Poster Discussion Sessions
- **8:15-11:45 a.m.**
  - Minisymposia
- **9:00 a.m.-12:00 noon**
  - Poster and Poster Discussion Sessions
- **10:45-11:30 a.m.**
  - Goodman Lecture
- **10:45 a.m.-12:00 noon**
  - Controversy Session
- **12:00 noon-4:00 p.m.**
  - Poster Discussion Sessions
- **12:15-3:45 p.m.**
  - Minisymposia
- **12:30-3:00 p.m.**
  - Symposia
GENERAL INFORMATION

PUBLICATION OF THE CALL FOR ABSTRACTS
This Call for Abstracts appears in a booklet that was mailed in September 1998 to all AACR members and to nonmembers who have expressed an interest in AACR meetings in the past. It is also published in the September 15, October 1, and October 15 issues of Cancer Research and in the October issues of Clinical Cancer Research, Cell Growth & Differentiation, and Cancer Epidemiology, Biomarkers & Prevention. Additional copies are available from the Meetings Department in the AACR Office at 215-440-9300 (Telephone), 215-440-9313 (FAX), and meetings@aacr.org (E-mail).

HOW TO REGISTER
The advance registration form appears on Page 32, and important details about the registration process appear on Page 31. Please note the following important deadlines:
December 1, 1998: New, Reduced Rate “Early Bird” Registration
February 1, 1999: Advance Registration to Ensure Receipt of Meeting Publications in March
February 22, 1999: All Registration by Mail
March 26, 1999: Cancellation of Advance Registration to Receive Refund (less administrative fee)
On-Site registration will be possible at the Pennsylvania Convention Center from April 10-14, 1999.

SCIENTIFIC PROGRAM
Details of the 1999 Program that are currently available appear on the inside front cover of this booklet. A tentative schedule of events appears on Page 3. Regular updates will be posted on the Association’s Website (http://www.aacr.org).

ANNUAL MEETING PUBLICATIONS
The Annual Meeting Program contains the authors, titles, times, and locations of all presentations at the annual meeting. The Proceedings of the American Association for Cancer Research contains the abstracts of all peer-reviewed papers accepted for presentation at the annual meeting. All active, corresponding, and associate members of the AACR who have paid their dues for 1999 receive the Program and Proceedings as part of their dues payment. Nonmember and predoctoral student registrants receive the Program, and nonmember registrants also receive the Proceedings as part of their registration fees. Additional copies of the Proceedings may be purchased at a cost of $35 for members and $45 for nonmembers.

The Association will mail only badges and receipts to overseas advance registrants who do not pay the postage surcharge described on the advance registration form. If you register in advance and do not receive your publication(s) before you depart for the meeting, please bring your receipt with you to the Issue Pickup Booth in the Registration Area at the Pennsylvania Convention Center. Show your receipt at the Booth to receive the appropriate publication(s).

ELECTRONIC PUBLICATION OF AACR PROGRAM AND PROCEEDINGS
An electronic version of the AACR Program and Proceedings will be available at the AACR’s Website in March 1999. It will be possible to search the full text of abstracts of papers being presented for key words and to develop a personal schedule of sessions of interest.

SUPPORT FOR ATTENDANCE
See Page 7 of this booklet for details about the following awards for qualified participants in the annual meeting:
- Travel Awards for Young Investigators Who Are Authors of Outstanding Abstracts: These awards are given to graduate and medical students, postdoctoral fellows, and physicians in training who, in the opinion of the Program Committee, have submitted outstanding abstracts. No separate application form is necessary. Qualified persons who check box 5A on the abstract form and submit the abstract by the November 6, 1998, deadline are automatically considered.
- AACR Minority Scholar Awards: Using funds from the Comprehensive Minority Biomedical Program of the NCI, the AACR supports the annual meeting participation of graduate and medical students, postdoctoral fellows, and physicians in training who are members of the following minority groups defined by the NCI as underrepresented in cancer research:
  - African American
  - Hispanic American
  - Native American
  - Alaskan Native
  - Native Pacific Islander

The American Cancer Society, Inc., or its affiliates, will request an application form from the AACR Minority Scholar Award Coordinator at 215-440-9300 (Telephone), 215-440-9412 (FAX), and felder@aacr.org (E-mail). This form must be completed and returned by December 4, 1998.

AACR-HBCU Faculty Award In Cancer Research. The AACR has received a grant from the Comprehensive Minority Biomedical Program of the NCI to support participation in the annual meeting by faculty members at Historically Black Colleges and Universities (HBCUs). Applicants must have full-time appointments at the level of Assistant Professor or above and be engaged in meritorious basic, clinical, or translational cancer research at an HBCU. Information and application forms are available from the AACR’s HBCU Award Coordinator at 215-440-9300 (Telephone), 215-440-9412 (FAX), and felder@aacr.org (E-mail). The deadline for receipt of applications in the AACR Office will be December 4, 1999.

HOTEL RESERVATIONS
Please read the instructions for making hotel reservations on Page 23 of this booklet and then make your reservation by telephone, FAX, or Internet. From Saturday, April 10, through Wednesday, April 14, shuttle busing will be provided between the Pennsylvania Convention Center and hotels assigned to AACR registrants according to schedules to be posted in the Center and in the hotels. There will be no shuttle bus service to the Philadelphia Marriott Hotel, the Association’s Headquarters Hotel, because it is connected to the Convention Center.

CHILD CARE
The AACR will once again provide professional child care services for infants and children ages 6 months to 11 years of age during the annual meeting. Exact hours and costs of this service will be published in January 1999.

COMMERCIAL EXHIBITS
The 1999 AACR Exhibit Show will be the largest in the Association’s history. It will gather together an anticipated 300 companies with the latest products and services for laboratory and clinical research. Exhibit booths will be located in Exhibit Hall B adjacent to the poster sessions. Show hours are as follows:
- Sunday, April 11: 12:00 noon to 5:00 p.m.
- Monday, April 12: 10:00 a.m. to 4:00 p.m.
- Tuesday, April 13: 10:00 a.m. to 4:00 p.m.
- Wednesday, April 14: 9:00 a.m. to 12:00 noon

Complimentary coffee, tea, and soft drinks will be served in the Exhibit Area at specified times on each day that exhibits are open. See the final Program for details.

Please visit the exhibits during the meeting as the firms involved are making a significant contribution to the educational value of the meeting and to the Association’s financial stability. If your firm needs an application form for exhibit space, please contact
Ms. Susan Capper AACR Exhibit Manager • Slack Incorporated 6900 Grove Road • Thornofare, NJ 08086 609-848-1000

EMPLOYMENT REGISTER
The AACR will operate an Employment Register in the Convention Center during the 1999 Annual Meeting and will schedule interviews for registered employers and candidates. Instructions and forms for participation in the employment register are available from the AACR Office.

Registration will also be possible at the meeting. Candidate and position listings received in the AACR Office by December 7, 1998, will be published in the Proceedings.

SPACE FOR SPECIAL FUNCTIONS
The AACR will entertain requests for space for special functions or receptions in the Philadelphia Marriott, the AACR’s headquarters hotel. Such requests will be handled on a first-come, first-served basis and should be directed to the Meetings Department in the Association Office.

ASSISTANCE FOR HANDICAPPED REGISTRANTS
The AACR is committed to making its meeting accessible to all investigators. Registrants with special requirements for transportation, hotel accommodations, or other facilities connected with the meeting should inform the Association Office of their needs in advance of the meeting. There will be a check box on the advance registration form or by contacting the Meetings Department in the Association Office as described in the first paragraph above.
Authors who submit an abstract of a paper for consideration for presentation at the Annual Meeting of the American Association for Cancer Research (AACR) confirm that they have not previously published these data, that they have not previously presented them at a large national annual scientific meeting, and that they are not planning to present or publish them prior to the dates of the AACR Annual Meeting. AACR policy states that the content of submitted abstracts is kept strictly confidential by the members of the Program Committee during the review and pre-publication process. After review of the abstract by the Program Committee, the PRESENTER will be notified about whether it has been accepted for presentation. The PRESENTER of the abstract must be one of the authors of the abstract, and it is expected that he or she will be the first author. Only those abstracts that are deemed acceptable for presentation by the Program Committee will be published in the Proceedings of the American Association for Cancer Research, which will be published in March 1999.

The paper presented at the annual meeting must coincide directly with the scientific content of the abstract submitted and determined to be acceptable by the Program Committee. If for any reason this is not possible, the paper must be withdrawn from presentation. Any requests for withdrawal of an abstract must be made in writing by the SPONSOR or PRESENTER. NOTE: Authors will be assessed a charge for any extraordinary costs incurred as a result of the withdrawal of abstracts after the Proceedings issue is in production.

To provide a well-organized, effective scientific program, the Program Committee will have full discretion to assign papers to minisymposia, poster discussion sessions, and poster sessions.

Minisymposia. Minisymposia will be planned from submitted abstracts. This format serves as a vehicle for the presentation and extensive discussion of developments in timely areas of cancer research.

Authors whose papers are assigned to minisymposia will be informed about the amount of time available for the delivery of their papers. At appropriate intervals, there will be opportunities for the discussion of each paper presented during the session. In addition, these sessions may include an invited talk to bring the subject into current perspective; there will be an introduction and a concluding discussion of the topic.

Poster Discussion Sessions. Poster discussion sessions will be scheduled from submitted abstracts and will run for four hours. The presentation of posters is supplemented by a focused discussion of the research areas under consideration. After presentation of the posters, there will be a one-hour discussion period led by two chairpersons with expertise in the area. Participants will have an opportunity to view the posters again after the discussion.

Prior to the annual meeting, the two chairpersons of these sessions will communicate directly with the authors presenting in the session to obtain more information on the work to be discussed. Authors will be expected to submit the content of their posters to the two chairpersons in advance of the meeting to make the ensuing discussion more effective.

Poster Sessions. Regular poster sessions will extend for four hours. Authors will be required to be present at their posters for the first three hours of the session. Detailed instructions for the preparation of posters will be sent to all authors whose abstracts are accepted for these sessions.

Late-Breaking Research Session. The firm deadline for submission of abstracts for publication in the Proceedings of the American Association for Cancer Research and for presentation at one of the regular sessions at the annual meeting is November 6, 1998. In addition, the AACR will provide an opportunity for the presentation of a few definitive reports of timely and highly significant research findings that become available after the November 6 abstract deadline. The work to be presented in this session must be of major novelty and importance, e.g., the characterization of a new gene in familial cancer or the discovery of a new diagnostic marker. Complete instructions for submission of these abstracts will appear in a forthcoming AACR Annual Meeting announcement and in AACR journals in January 1999. The deadline for submission of abstracts for consideration for the Late-Breaking Research Session will be March 12, 1999.

Scheduling of Presentations. The AACR will do its utmost to assist any author who, for religious reasons, cannot present a paper on a particular day of the week. However, the complexities of scheduling thousands of papers for this multidisciplinary cancer research meeting require that sufficient notice from authors be given to the Program Committee. Authors who need special assistance with regard to the scheduling of their papers must enclose written requests along with their submitted abstracts.

SPONSORSHIP REGULATIONS

1. The SPONSOR must be a member of the Association in good standing. That is, an active, corresponding, or associate member must have paid his or her membership dues through 1998 by the time of the submission of the abstract in order to serve as the SPONSOR of one abstract for the upcoming annual meeting. As stated in the AACR By-Laws, honorary and emeritus members are exempt from the payment of dues; thus this regulation does not apply to them.

2. Each member of the AACR may SPONSOR only one abstract. There are no exceptions to this regulation. This privilege may be used in one of two ways: (a) the SPONSOR may be one of the authors of the abstract, or (b) the SPONSOR may sign the abstract form on behalf of the authors who may be either members or nonmembers of the AACR.

3. Each submitted abstract must carry the SPONSOR’S AACR Member Number. This number appears on the AACR Membership Card and below the member’s name in the 1997-1998 AACR Directory of Members. The SPONSOR must sign the abstract form.
4. A member or nonmember may be listed as a coauthor on more than one abstract, provided that each abstract has a different member SPONSOR.

5. The SPONSOR is obligated to ascertain that all authors are aware of the content of the abstract. Sponsorship of an abstract implies support for the data and the interpretations contained therein.

Special Limitations on Submissions by Associate Members.
An associate member in good standing may SPONSOR his or her own abstract provided that (a) he or she is the PRESENTER of the abstract, and (b) an active or corresponding member in good standing also signs the abstract form ENDORSING the work. The ENDORSER does not thereby lose his or her own sponsorship privilege. NOTE: An associate member may SPONSOR only one abstract, and he or she must also be the PRESENTER of that abstract.

COMPLIANCE WITH THESE REGULATIONS IS THE RESPONSIBILITY OF THE SPONSOR. Adherence to these rules will be verified. Violations will result in the rejection and return of the abstract to the SPONSOR without consideration by the Program Committee.

INSTRUCTIONS FOR THE PREPARATION AND SUBMISSION OF ABSTRACTS

Each submitted abstract must carry the name, AACR Member Number, and signature of the SPONSOR on the appropriate lines of the abstract form. Each AACR member may SPONSOR only one abstract.

CONTENT OF ABSTRACTS

Authors who submit an abstract of a paper confirm that they have not previously published these data, that they have not previously presented them at a large national annual scientific meeting, and that they are not planning to present or publish them prior to the dates of the AACR Annual Meeting.

Members of the Program Committee will evaluate the scientific quality of the submitted abstract on the basis of the following criteria: novelty of the research, significance of the findings, and clarity. Authors should be particularly cognizant of the importance of setting forth the objectives and hypotheses of the study in a clear, succinct manner and of summarizing the new, unpublished results. If the abstract is poorly written such that the Program Committee cannot determine its novelty and importance, the paper will not be accepted for presentation at the annual meeting.

1. Abstracts must describe in a succinct manner the purposes and results of the research so that the quality, originality, and comprehensiveness of the work can be evaluated by the Program Committee. Each abstract should contain: (a) an introductory sentence indicating the purposes of the study; (b) a brief description of pertinent experimental procedures; (c) a summary of the new, unpublished data; and (d) a statement of the conclusions. Authors must accept sole responsibility for the statements in their abstracts. Abstracts should be carefully proofread to avoid errors in the published literature.

2. Titles should be indicative of the content of the abstract. All words necessary to identify the subject matter should be included in the title to facilitate electronic retrieval (CD-ROM or online searches). Avoid nonstandard abbreviations in abstract titles.

3. Abbreviations may be used in the body of an abstract if they are defined at their first mention in the text. Complex therapeutic regimens must be identified.

4. NOTE: The AACR is committed to the advancement of cancer research and the cure and prevention of cancer through the facilitation of communication and full dissemination of knowledge among scientists and others dedicated to the cancer problem. Therefore, the AACR requires strict compliance with the following regulation:

When biological or chemical data pertaining to chemical entities are an integral part of the research, the chemical structure, method of preparation, and patent or reference numbers must be presented. If for any reason this information cannot be given when the paper is presented at the annual meeting, the abstract on this work should not be submitted for consideration.

5. Because of administrative and time constraints, supplemental data submitted along with the abstract cannot be transmitted to the Program Committee for review.

GENERAL INSTRUCTIONS FOR THE SUBMISSION OF ABSTRACTS

The AACR will not accept abstracts for the 1999 Annual Meeting via Internet submission or by fax or e-mail delivery.

Abstracts must be submitted on the official 1999 AACR abstract form. Two abstract forms are enclosed. Please pass one on to a colleague if you do not need it for your own use. The blank form may also be photocopied for use by others. Additional abstract forms may be obtained by calling or writing to the AACR Office. The blank form is also available as a PDF document that can be downloaded and printed from the AACR Website: <http://www.aacr.org/meeting.htm>.

Instructions for completing the abstract form are given on the following pages.

The accuracy of the submitted abstract is the responsibility of the authors. Every effort will be made to publish the abstract exactly as submitted on the abstract form. Although abstracts will be typeset for print and electronic distribution, they will not be edited or corrected by AACR Staff. Therefore, authors should prepare and proofread their abstracts carefully prior to submission. Errors made on your submitted abstract are likely to appear in print.
A Temporary Abstract Number will be assigned to your abstract when it arrives at the AACR Office. This number will be listed on the card that is returned to you acknowledging receipt of your abstract. Please reference the Temporary Abstract Number in all subsequent communications with the AACR Office.

**Abstract Form**

The official abstract form must be filled out completely and signed in accordance with the instructions. Three (3) photocopies of the completed form must also be submitted. In addition to typing the abstract within the box according to the instructions given below, please provide the information and signatures requested on the abstract form and accompanying materials as follows. (NOTE: The numbered headings below correspond to the numbers on the abstract form.)

1. **Category and Subclassification.** Choose ONLY ONE category and subclassification. Indicate the category and subclassification in which your paper belongs by typing the appropriate five-character code in the blocks provided. A list of codes for the categories and subclassifications appears on Pages 10-12 of this booklet. The list is also available at the AACR Website. These designations will serve as a guide to the Program Committee in the grouping of abstracts but will not necessarily be the actual titles of scientific sessions to be held at the annual meeting.

2. **Sponsor of the Abstract.** Type the AACR member number, name, address, telephone and FAX numbers, and e-mail address of the member using his or her membership privilege to SPONSOR the abstract. (Member numbers can be found on an individual’s membership card and in the 1997-1998 AACR Directory of Members.) The SPONSOR, who must be a member of the AACR in good standing through 1998, may SPONSOR only one abstract. (See Page 5 for Sponsorship Regulations.)

3. **Sponsor Signature.** The SPONSOR must sign the form in the space provided to indicate support for the data and interpretations contained in the abstract.

4. **Associate Members Only.** If an associate member is the SPONSOR AND PRESENTER of the abstract, he or she must ask an active or corresponding member in good standing or an emeritus or honorary member to sign Line 4 of the form as the ENDORSER of the work. Type the name and member number of the ENDORSING member on the appropriate lines.

5. **Eligibility for Young Investigator Awards for American and International Scientists.**

A. The AACR is very grateful to the growing number of sponsors who help several hundred young investigators attend the annual meeting each year. International travel grants for young scientists are on the rise. For example, ITO, EN, Ltd. is underwriting a major enhancement of the AACR’s program of young investigator travel grants for Asian scientists and will continue its very generous support of this new program through 2002.

Submission of an abstract by the deadline of November 6 is an absolute prerequisite for receipt of any AACR travel award. Qualified scientists from all countries are therefore encouraged to submit abstracts and to indicate their eligibility for these awards by observing the following instructions: Indicate whether the PRESENTER of the abstract is a medical student, graduate student, physician in training, or postdoctoral fellow from an academic or governmental organization. PRESENTERS who meet these requirements and who are first authors on abstracts given high ratings for scientific merit by the Program Committee may be candidates for a young investigator award. If a PRESENTER is eligible based on the above criteria and is under consideration, a letter confirming his or her status, submitted on the official letterhead of the PRESENTER’s institution and signed by the registrar, dean, or department head of that institution, will be requested at a later date.

B. Minority Scholar Awards in Cancer Research are available if the PRESENTER meets the above-mentioned criteria and is African American, Hispanic American, Native American, Alaskan Native, or Native Pacific Islander. Through a generous grant provided by the Comprehensive Minority Biomedical Program of the National Cancer Institute, funds are available to encourage participation in the annual meeting by minority groups which have been traditionally underrepresented in cancer and biomedical research. Eligible scientists are young, full-time predoctoral (graduate or medical) students, postdoctoral fellows, and physicians in training who are either engaged in cancer research, or who have training that could lead to contributions in this field. Only citizens of the United States and Canada or scientists who are permanent residents in these countries may receive one of these awards.

Although preference will be shown to authors of abstracts that have been accepted for presentation at the 1999 AACR Annual Meeting, this is not a requirement for the Minority Scholar award. Awardees will be selected on the basis of their qualifications, references from mentors, and an estimation of the potential professional benefit of their attendance at the annual meeting. An advisory committee consisting of senior members of the AACR carefully reviews submitted applications and letters of reference. The award will consist of partial support for the registration, travel, and subsistence expenses incurred in connection with their attendance at the annual meeting.

Persons checking this box will receive an application form which must be completed and returned to the AACR by December 4, 1998. Applicants will be chosen from both minority institutions and the larger body of universities, colleges, and research institutes. If accepted, applicants are expected to attend at least three full days of scientific sessions at the annual meeting and participate in all planned activities for the awardees. They are also required to submit a report commenting on the scientific sessions they attended at the annual meeting and on the Minority Scholar Program.

C. AACR-HBCU Faculty Awards in Cancer Research are available to full-time faculty members of Historically Black Colleges and Universities (HBCU’s). Supported by a generous grant provided by the Comprehensive Minority Biomedical Program of the National Cancer Institute, these awards will be presented to scientists at the level of Assistant Professor or above at an HBCU who are engaged in meritorious basic, clinical, or translational cancer research. Awardees will receive financial support for their participation in the Annual Meeting up to a maximum of $1,500.

The purpose of this Award program is to increase the scientific knowledge base of faculty members at HBCU’s and to encourage them and their students to pursue careers in cancer research. The selection of awardees will be made by a multidisciplinary AACR Award Committee consisting of experts in all aspects of basic, clinical, and translational research. Although preference will be shown to authors of abstracts that have been accepted for presentation at the 1999 AACR Annual Meeting, this is not a requirement for the AACR-HBCU Faculty Awards. Other selection criteria will include the candidate’s publications and current grant support as evidence of a
commitment to and of achievement in cancer research. The Committee will also assess the specific benefits that the candidate will derive from attendance at the meeting with particular attention to the candidate's own statement in this regard.

Persons checking this box will receive an application form which must be completed and returned to the AACR by December 4, 1998. If accepted, applicants are expected to attend at least three full days of scientific sessions at the annual meeting and to participate in all planned activities for awardees. Reimbursement of meeting expenses is contingent upon submission of a report commenting on the scientific sessions they attended and on the AACR-HBCU Faculty Award Program.

6. Presenter of the Abstract. Type the name, AACR member number (if applicable), address, telephone and FAX numbers, and e-mail address of the PRESENTER of the paper in the space provided. The PRESENTER must be one of the authors of the abstract. It is expected that the first author of an abstract will be its PRESENTER.

7. Presenter Signature. The PRESENTER of the paper must sign the form in the space provided to acknowledge that the Copyright Transfer/Conflict of Interest Disclosure Form has been completed, and to give the AACR permission to arrange for audiotaape recording and the subsequent sale of audiotaape cassettes of the papers delivered orally at the 1999 AACR Annual Meeting. Your advance permission for taping in the event that your paper is among those to be recorded is appreciated.

8. Payment of US$40 Abstract Submission Fee. Please indicate your method of payment. Remember to list the name of the PRESENTER on your enclosed check. If you want the Abstract Submission Fee (US$40) to be billed to your credit card, please fill in the necessary information and sign in the space provided. Purchase orders cannot be accepted.

Please check all the information you have entered for correctness and adherence to AACR submission rules. Infractions of sponsorship regulations will result in the rejection and return of the abstract to the SPONSOR without consideration by the Program Committee. Infractions of format, including forms submitted without the required signatures, will result in an additional fee of US$40, which will be billed to the SPONSOR.

FORMAT OF ABSTRACTS

Abstracts will be typeset from the paper copy of the abstract form. The accuracy of the submitted abstract is the responsibility of the authors. Careful preparation and proofreading are essential prior to submission. Every effort will be made to publish the abstract exactly as submitted on the abstract form, except in certain instances where changes are made to comply with AACR style. AACR does not assume responsibility for proofreading or correcting any scientific, grammatical, or typographical errors. Therefore, errors made in your submitted abstract are likely to appear in print.

Only abstracts submitted on the official 1999 abstract form will be considered by the Program Committee. Before typing the abstract on the form, read all instructions and examine the sample abstract thoroughly. Prepare your abstract in accordance with the approved format shown in the sample abstract (Page 14). Please note in particular the following regulations concerning format:

- Dimensions: The entire abstract, including text, title, authors, and affiliations, must fit within the box provided on the abstract form. The dimensions of the box are 5 inches (12.5 cm) wide x 4 inches (10 cm) high. Do not reduce the abstract mechanically to fit into the box. Type the abstract single spaced.

- Type: Abstracts may be printed using laser or ink-jet printers with type no smaller than 10-point. Abstracts may also be prepared using typewriters or daisy-wheel printers with a sharp black ribbon and a printing element no smaller than 12-pitch (elite). Do not use dot matrix printers. Any symbols that must be drawn by hand should be drawn with black ink.

- Title: Use boldface type for the title if possible. The first line of the title should be flush with the left margin of the abstract box. Capitalize only the first letter of the first word; type the rest in lower case except where lower case is incorrect, e.g., "DNA." Avoid nonstandard abbreviations in the title. (See Cancer Research Instructions for Authors, Vol. 58: 180-186, 1998, for a list of standard abbreviations.) Type a period at the end of the title.

Authors' Names: Type the authors' names as a group. For each author, type surname first followed by given name and initials. Omit academic degrees. Do not use footnote numbers or symbols after the authors' names to refer to their individual affiliations. See next paragraph.

Affiliations: List affiliations as a group at the end of the list of authors' names. For each affiliation, type the name of the institution, city, state (in abbreviated form), zip code, and country (other than the U.S.). Separate each affiliation with a semicolon. An example appears below:

Moody, T.W., Cassibang, M., Rosenstein, J., Gozes, Y., Ben Av, P., and Hla, T., Division of Clinical Sciences, National Cancer Institute, Rockville, MD 20850; Israel Institute for Biological Research, Ness-Ziona, 74100 Israel; and Holland Laboratory, American Red Cross, Rockville, MD 20855.

We prefer that you do not key the affiliation of each author to his/her name. However, if you are obligated to do so, DO NOT use footnote numbers or symbols after an author's name to refer to his/her affiliation because they are difficult to distinguish in print. Instead, put the author's initials in parentheses at the end of his/her affiliation as shown below:

Iwamura, T., Caffrey, T.C., Kawano K., Yamanari, H., Setoguchi, T., and Hollingsworth, M.A., Miyazaki Prefectural General Hospital, Miyazaki 880, Japan (T.I.); The Eppley Institute for Research in Cancer and Allied Diseases, Omaha, NE 68198 (T.I., T.C.C., M.A.H.); and Miyazaki Medical College, Miyazaki 889-16, Japan (T.I., K.K., H.Y., T.S.).

Text: Begin the text on a separate line after the affiliations. Type the text single spaced in one paragraph. Nonstandard abbreviations are permitted in the text of the abstract if they appear in parentheses immediately after the term being abbreviated at the first usage of that term in the text. Tables, charts, illustrations, halftones, and color photographs are not acceptable as part of your abstract and should not be submitted.

INSTRUCTIONS FOR COMPLETING THE COPYRIGHT TRANSFER/CONFLICT OF INTEREST DISCLOSURE FORM

All PRESENTERS must submit the signed original plus one copy of this completed form along with their abstracts.

Copyright Transfer. The PRESENTER of the paper, as an author of the abstract and on behalf of all authors, must check the appropriate box and sign this section of the form.

Conflict of Interest Disclosure. The AACR has applied for accreditation of the Annual Meeting as an educational activity
for Category 1 credits towards the Physician’s Recognition Award Program of the American Medical Association. The Accreditation Council for Continuing Medical Education requires that all PRESENTERS at accredited activities declare whether they have any financial or other interest which might be construed as resulting in an actual, potential, or apparent conflict of interest in the work presented. The AACR Board of Directors has accepted this principle and has made this declaration a prerequisite of abstract submission. The existence of financial interests or other relationships of a commercial nature is not regarded by the AACR as creating a presumption of impropriety. Rather, the AACR desires to make as much relevant information available as possible to those reviewing the data being presented.

All PRESENTERS, whether or not they have a financial or other interest in the work they intend to present, must complete and sign the Conflict of Interest Disclosure section of the form on Page 13 of this booklet. The form may also be downloaded as a PDF file from the AACR’s Website. Failure to submit this form along with an abstract form by November 6, 1998, will result in return of the abstract to the PRESENTER without consideration by the Program Committee.

MAILING INSTRUCTIONS

1. Abstracts must be received in the office of the American Association for Cancer Research no later than November 6, 1998. Submission at an earlier date would be appreciated. The AACR urges investigators working outside of the United States to send their abstracts well ahead of the deadline date or to use one of the international courier services that offer delivery within a few days. The deadline for receipt will be applied uniformly to all abstracts regardless of their origin. FAX or other electronic transmittals will not be accepted.

2. Enclose the following materials unfolded and with cardboard backing in an envelope of suitable size:

   A. An original plus three (3) legible copies of the completed abstract form signed by the SPONSOR and PRESENTER.

   B. A check for US$40 payable to the American Association for Cancer Research, Inc. All checks must be drawn on United States banks. PLEASE LIST THE NAME OF THE PRESENTER ON YOUR CHECK. If you wish us to charge this amount to your credit card, fill out and sign Item 8 on the abstract form. Purchase orders are not acceptable for payment of the abstract submission fee.

   C. The completed and signed Copyright Transfer/Conflict of Interest Disclosure Form plus one photocopy.

   D. The Acknowledgment Card attached to this announcement. The names of the authors and the title of the paper should be filled in on the card prior to submission. The card will be returned to you showing the Temporary Abstract Number assigned to your abstract. This number should be referenced in all correspondence or telephone calls to the AACR Office. PRESENTER: To ensure receipt of the Acknowledgment Card, put your own address on the reverse of the card and affix proper postage.

   E. One stamped, regular letter-sized envelope (about 4 x 9.5 inches, 10.2 x 24.2 cm) addressed to the PRESENTER. The final decision of the Program Committee concerning acceptability for presentation and publication will be returned in this envelope along with any other necessary instructions.

3. Send the materials listed above together in one envelope to:

American Association for Cancer Research, Inc.
1999 ANNUAL MEETING ABSTRACT
Public Ledger Building, Suite 826
150 S. Independence Mall West
Philadelphia, PA 19106-3483

4. Do not enclose membership application forms, membership dues, advance registration forms, housing forms, or any other materials in the envelope with your abstract submission. Please submit these documents separately and follow the particular mailing instructions provided on each one.

   Special mailing charges cannot be paid by the AACR. The AACR staff cannot assume responsibility for abstracts that are not delivered directly to the premises.

SUBMISSION OF CORRECTED ABSTRACTS

If after submitting your abstract you discover an error, please do not submit a corrected abstract until you have received an acknowledgment card containing the Temporary Abstract Number of your original submission. You may then submit a corrected abstract in strict accordance with the following instructions:

1. On a photocopy of the original abstract, indicate the correction(s) you are making.

2. On an official abstract form in the box provided, type the full text of the resubmitted abstract prepared according to the Format instructions above. Answer all the questions on the form.

3. Label both the original and resubmitted abstract forms in the upper right-hand corner with your Temporary Abstract Number and the word "Resubmission."

4. Send the corrected original abstract and an original and three copies of the resubmitted abstract on the official form to the address given above. Write or type the word “Resubmission” on the mailing envelope.

   Authors will be charged for any extraordinary costs incurred as a result of abstracts being resubmitted or withdrawn after the Proceedings is in production. The AACR will not be responsible for the acceptance and processing of corrected abstracts that are not submitted in compliance with the above regulations. No substantive changes may be made in abstracts after they have undergone scientific review, and the AACR cannot accept any resubmission or comply with any request for withdrawal of an abstract that will delay the publication of the Proceedings.

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CG1-03 Carcinogenesis in fish models
CG1-04 Genetic susceptibility and risk assessment
CG1-05 Predictive assays for carcinogenicity
CG1-06 Premalignant lesions
CG1-07 Toxicology and carcinogenesis
CG1-08 Drug metabolizing enzymes
CG1-09 GSH/GST
CG1-10 Other

CG2 Molecular Carcinogenesis: Metabolism, DNA Lesions, Mutagenesis, and DNA Repair
CG2-01 Biochemical aspects of carcinogen function: enzymatic bioactivation
CG2-02 Biochemistry of DNA repair
CG2-03 DNA adducts: identification and conformational effects
CG2-04 DNA adducts: repair and sequence specificity
CG2-05 Genetic and cytogenetic alterations
CG2-06 Metabolism and activation of carcinogens in animal models and humans
CG2-07 Molecular responses to DNA damage
CG2-08 Mutagenesis
CG2-09 Mutational spectrum of carcinogens
CG2-10 Oxygen radicals
CG2-11 Other

CG3 Promotion and Progression
CG3-01 Cellular transformation
CG3-02 Growth factors in progression
CG3-03 Mesenchymal/epithelial interactions
CG3-04 Signal transduction
CG3-05 Tumor promotion and progression
CG3-06 Other

EP EPIDEMIOLOGY
EP1 Analytical Epidemiology in Populations
EP1-01 Behavioral epidemiology
EP1-02 Cancer in minority and medically underserved populations
EP1-03 Diet, nutrition, and lifestyle factors
EP1-04 Environmental and occupational etiology
EP1-05 Radiation exposure and cancer risk
EP1-06 Gene-environment interactions
EP1-07 Human tumor viruses and other infectious agents in susceptible populations
EP1-08 Genetic polymorphisms and metabolizing enzymes
EP1-09 Preneoplastic lesions
EP1-10 Methodology, computer modeling, and biostatistics
EP1-11 Other

EP2 Molecular and Genetic Epidemiology
EP2-01 Genetic markers and biomarkers in epidemiology
EP2-02 Familial cancer genetics
EP2-03 Cancer syndromes
EP2-04 Genotype/phenotype correlations in cancer families
EP2-05 Susceptibility and risk assessment
EP2-06 Genetic counseling and ethical issues
EP2-07 Cancer surveillance in high-risk populations
EP2-08 Proactive cancer screening
EP2-09 Other

PR PREVENTION/BASIC SCIENCE AND CLINICAL STUDIES
PR1 Preclinical Prevention Studies: Markers and Mechanisms
PR1-01 Animal/transgenic models in promotion and prevention
PR1-02 Biological and biochemical mechanisms in prevention
PR1-03 Biomarkers and intervention studies
PR1-04 Molecular markers in prevention research
PR1-05 Caloric restriction
PR1-06 Cellular models in prevention research
PR1-07 Chemoprevention
PR1-08 Diet, nutrition, and cancer
PR1-09 Genetic influences on diet and cancer
PR1-10 Genetic susceptibility and prevention
PR1-11 Hormones and chemoprevention
PR1-12 Modulators of arachidonic acid metabolism
PR1-13 Other

PR2 Clinical Prevention Studies
PR2-01 Biomarkers and intervention studies
PR2-02 Chemoprevention trials
PR2-03 Studies at the interface of cancer prevention and chemotherapy
PR2-04 Physiological and lifestyle effects on chemoprevention
PR2-05 Prevention clinical trials
PR2-06 Prevention of second cancers
PR2-07 Prevention studies in high-risk populations
PR2-08 Other

CL CLINICAL RESEARCH
CL1 Phase I-III Clinical Trials
CL1-01 AIDS-related malignancies
CL1-02 Brain/central nervous system cancers
CL1-03 Breast cancer
CL1-04 Colon and other gastrointestinal cancers
CL1-05 Head and neck cancers
CL1-06 Leukemias and lymphomas
CL1-07 Lung cancer
CL1-08 Melanoma and skin cancer
CL1-09 Ovarian and other gynecological cancers
CL1-10 Pediatric malignancies
CL1-11 Prostate and other genitourinary tract cancers
CL1-12 Sarcomas
CL1-13 Second cancers
CL1-14 Other

CL2 Organ-Site Specific Studies I: Preclinical Research – Tumor Biology and Translational Research
CL2-01 AIDS-related malignancies
CL2-02 Brain/central nervous system cancers
CL2-03 Breast cancer
CL2-04 Colon and other gastrointestinal cancers
CL2-05 Head and neck cancers
CL2-06 Leukemias and lymphomas
CL2-07 Lung cancer
CL2-08 Melanoma and skin cancer
CL2-09 Ovarian and other gynecological cancers
CL2-10 Pediatric malignancies
CL2-11 Prostate and other genitourinary tract cancers
CL2-12 Sarcomas
CL2-13 Second cancers
CL2-14 Animal/transgenic models of molecular progression
CL2-15 Other

CL3 Organ-Site Specific Studies II: Preclinical Research – Experimental Therapeutics
CL3-01 AIDS-related malignancies
CL3-02 Brain/central nervous system cancers
CL3-03 Breast cancer
CL3-04 Colon and other gastrointestinal cancers
CL3-05 Head and neck cancers
CL3-06 Leukemias and lymphomas
CL3-07 Lung cancer
CL3-08 Melanoma and skin cancer
CL3-09 Ovarian and other gynecological cancers
CL3-10 Pediatric malignancies
CL3-11 Prostate and other genitourinary tract cancers
CL3-12 Sarcomas
CL3-13 Second cancers
CL3-14 Animal/transgenic models of molecular progression
CL3-15 Other

CL4 Clinical Pharmacology/Modality-based Clinical Research
CL4-01 Clinical drug resistance
CL4-02 Clinical toxicology
CL4-03 Biodistribution/availability
CL4-04 Pharmaceutics and monitoring
CL4-05 Prodrugs and activation strategies
CL4-06 Other

CL5 Molecular Biology/Molecular Oncology in the Clinic
CL5-01 Advances in genome scanning relevant to the clinic
CL5-02 Comparative genomic hybridization from the bench to the clinic
CL5-03 Cyto genetics and clinical molecular genetics
CL5-04 Minimal residual disease
CL5-05 Molecular markers of metastasis and progression
CL5-06 Oncogene-based molecular diagnosis and prognosis
CL5-07 Tumor staging: correlation of clinical and molecular markers
CL5-08 Other

CL6 Supportive Care, Psychosocial Aspects of Cancer, and Survivorship
CL6-01 Cancer information access and dissemination
CL6-02 Pain research
CL6-03 Palliative care
CL6-04 Psychosocial aspects of cancer
CL6-05 Survivorship research
CL6-06 Other

EN ENDOCRINOLOGY/PRE-CLINICAL AND CLINICAL
EN1 Molecular and Preclinical Endocrinology: Receptors and Signal Transduction
EN1-01 Cytokines and receptors
EN1-02 Growth factors and cell surface receptors
EN1-03 Developmental control of hormone receptors
EN1-04 Hormonal control of cell growth and death
EN1-05 Hormone action and inhibitors
EN1-06 Hormones and differentiation
EN1-07 Hormone receptor networks: signal transduction
EN1-08 Nuclear receptors: structure and function
EN1-09 New ligands
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Your abstract cannot be considered unless this form is completed, signed, and enclosed with your submitted abstract.

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TITLE OF ABSTRACT:

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As the PRESENTER and as an author of this abstract, on behalf of all the authors (check appropriate box and affix signature):

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Date

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The American Association for Cancer Research (AACR) is committed to ensuring the integrity of its scientific, educational, and research programs and therefore requires disclosure of any financial or other interests which might be construed as resulting in an actual, potential, or apparent conflict. The existence of financial interests or other relationships of a commercial nature is not regarded by the AACR as creating a presumption of impropriety. Rather, AACR's policy represents a recognition of the many factors that can influence judgments about research data and a desire to make as much information as possible available to those reviewing the data.

All faculty participating in an educational activity are expected to disclose any significant financial interest or other relationship with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation. (Significant financial interest or other relationship can include such things as grants or research support, employee, consultant, major stockholder, member of speakers bureau, etc.) The intent of this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but rather to provide listeners with information on which they can make their own judgments. It remains for the audience to determine whether the speaker's interests or relationships may influence the presentation with regard to exposition or conclusion.

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If Yes, please list the manufacturer(s) or provider(s) and describe the nature of the relationship(s). (Attach additional sheets as required.)

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<th>Company Name</th>
<th>Nature of Relationship</th>
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II. Will the presentation/abstract include information about unlabeled or investigational uses of commercial products? Yes  No

If Yes, please identify the commercial products and unlabeled or investigational uses. (Attach additional sheets as required.)

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<th>Unlabeled/Investigational Use(s)</th>
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Submitted by: ________________________  Fax# ________________________

Signature: ________________________  Date: ________________________
ABSTRACT FORM

AACR Annual Meeting
April 10-14, 1999
Philadelphia, PA

Chemoprevention of pulmonary carcinogenesis by aerosolized budesonide in female A/J mice. Wattenberg, L.W., Wiedmann, T.S., Estensen, R.D., Zimmerman, C.L., Steele, V.E., and Kellogg, G.J. University of Minnesota, Minneapolis, MN 55455 and National Cancer Institute, Bethesda, MD 20892

This study is part of an effort to develop effective chemoprevention for carcinogenesis of the lung. The present study explores aerosol administrations for this purpose. The agent selected for study is the synthetic glucocorticoid, budesonide. A nose-only aerosol technique has been developed which entails nebulization of budesonide dissolved in ethanol and subsequent stripping off the solvent. The size range of the budesonide particles produced by the apparatus has a mass median aerodynamic diameter of less than 1µm. An experiment in which the inhibition of A/J female aerosolized budesonide, given for 1 minute, 6 times a week has been carried out. Concentrations of budesonide of 26, 81 and 148 µg/liter of air (calculated doses of 23, 72 and 126 µg/Kg body weight) were used. The aerosols were started 1 week after 3 oral administrations of benzo[a]pyrene 2 mg/20Gm body weight to female A/J mice. All 3 doses of budesonide resulted in over 80% inhibition of pulmonary tumor formation, as compared to the aerosol control, and 90% or greater compared to mice not exposed to aerosol. The difference in inhibition is due to the aerosol procedure itself producing a reduction in tumor formation. A decrease in splenic weight (evidence of a systemic effect) occurred at all doses of budesonide. To the best of our knowledge, this is the first published effort at the use of aerosol administrations to prevent neoplasia of the lung. The results show that administration of budesonide by aerosol can prevent pulmonary carcinogenesis in female A/J mice.

Type abstract within black lines. See sample abstract.
ABSTRACT FORM

AACR Annual Meeting
April 10-14, 1999
Philadelphia, PA

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ABSTRACT FORM

AACR Annual Meeting
April 10-14, 1999
Philadelphia, PA

Type abstract within black lines. See sample abstract.
BENEFITS OF MEMBERSHIP

The American Association for Cancer Research (AACR), a scientific society of over 13,500 laboratory and clinical cancer researchers, was founded in 1907 to facilitate communication and dissemination of knowledge among scientists and others dedicated to the cancer problem; to foster research in cancer and related biomedical sciences; to encourage the presentation and discussion of new and important observations in the field; to foster public education, science education, and training; and to advance the understanding of cancer etiology, prevention, diagnosis, and treatment throughout the world.

Members of the AACR enjoy the following benefits:
1. the privilege of sponsoring a proffered paper (abstract) for consideration for presentation at the AACR annual meeting;
2. subscriptions to the Association's high-quality journals Cancer Research, Clinical Cancer Research, Cell Growth & Differentiation, and Cancer Epidemiology, Biomarkers & Prevention at reduced member rates;
3. an advance copy of the Program and Proceedings of the American Association for Cancer Research that contains over 4,000 abstracts of proffered papers presented at the annual meeting;
4. reduced registration rates at annual meetings;
5. priority notice of small, focused meetings in the AACR's exciting series of Special Conferences in Cancer Research;
6. substantially reduced registration rates for Special Conferences;
7. opportunities for participation in AACR meetings in North America and abroad with other scientific societies around the world;
8. receipt of AACR Newsletters and other important announcements;
9. early notification of and reduced rates for participation in the AACR Employment Register;
10. an up-to-date Membership Directory of over 13,500 member researchers in the cancer field;
11. the professional benefits of AACR's public education activities concerning funding for cancer research and press coverage of the latest research findings;
12. the opportunity to participate in three Summer Workshops that foster knowledge in the cancer field for young investigators;
13. the facilitation of informal scientific exchange with leading researchers in the cancer field; and
14. many more ongoing benefits.

QUALIFICATIONS FOR MEMBERSHIP

Active membership in the AACR is open to investigators who live in the Americas. Individuals who have conducted two years of research resulting in peer-reviewed publications relevant to cancer, or who have made substantial contributions to cancer research in an administrative or educational capacity, are eligible. If a candidate has conducted research in an area of biomedical science related to cancer, he or she will qualify for membership. Evidence of patents relevant to cancer research may be submitted as qualifications for membership in lieu of peer-reviewed publications.

Corresponding membership is open to persons who are not residents of the Americas. The qualifications for corresponding membership are the same as those indicated above for active membership.

PROCEDURES FOR APPLICATION

There are three deadlines for the receipt of a membership application: January 1, May 1, and September 1 of each year. The Membership Committee will review all complete applications for active membership that have been received by these deadlines and will submit recommendations on each candidate to the Board of Directors which formally elects all members. The same procedure is followed by the Special Memberships Committee which receives applications for corresponding membership. Candidates will be notified according to the following schedule:

**Receip of Application**

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**Notification of Candidate**

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A complete application consists of the following material:

1. 6 copies of the form on the opposite side of this page, with all requested information provided.
2. 5 copies of the candidate's most current curriculum vitae and bibliography.
3. 5 copies of a letter of recommendation from a nominator who is an active, corresponding, emeritus, or honorary member of the AACR (at least one copy must be a signed, original letter). This letter should describe the candidate's achievements in laboratory research, clinical investigations, or epidemiological research, and it should affirm that this research adheres to accepted ethical scientific standards. OR - The nominator may sign the application form where indicated under the heading, "STATEMENT OF SUPPORT" (at least one copy of the form must be the signed original).
4. 5 copies of a letter of recommendation as described in Item 3 above from a seconder who is an active, corresponding, emeritus, or honorary member of the AACR (at least one copy must be a signed, original letter). OR - The seconder may sign the application form where indicated under the heading, "STATEMENT OF SUPPORT" (at least one copy of the form must be the signed original).
5. 5 reprints of each of two publications on which the candidate appears as author. As noted above, evidence of patents developed by the candidate may be submitted in lieu of one or both of the publications. If submitting patents, supply patent number and year awarded. All material should be collated into five complete sets with the original application form as a covering document and sent to the address given below. Questions regarding procedures for membership application may also be directed to the following address:

**Membership Services Department**

American Association for Cancer Research
Public Ledger Building, Suite 826
150 S. Independence Mall West • Philadelphia, PA 19106-3483
Phone: 215/440-9300 • FAX: 215/440-5412
E-mail: membership@aacr.org

RESPONSIBILITIES OF MEMBERSHIP

Candidates should be aware of the following responsibilities of membership in the AACR. Active members must pay annual dues. In 1999 annual dues for active members are $185, $105 of which is designated for AACR journal subscriptions. Newly elected members of the AACR who have already purchased subscriptions to Cancer Research, Clinical Cancer Research, Cell Growth & Differentiation, or Cancer Epidemiology, Biomarkers & Prevention at the higher, nonmember rates will receive reimbursement of the unused portion of those subscriptions once their first year's membership dues are paid in full.

Corresponding members are required to pay dues ($105 in 1999) and, may, if they wish, subscribe to Cancer Research, Clinical Cancer Research, Cell Growth & Differentiation, or Cancer Epidemiology, Biomarkers & Prevention at reduced member rates.

Applicants elected in March will be responsible for payment of that year's dues; applicants elected in July and November will pay dues for the following year. Applicants elected in March and July will be eligible to sponsor an abstract for the next annual meeting. Every effort will be made to afford the same opportunity to applicants elected in November.

Margaret Foti, Ph.D.
Executive Director
### Application for Active or Corresponding Membership

**NAME OF CANDIDATE:**

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<th>FIRST</th>
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**DATE OF BIRTH:**

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**PRESENT POSITION/TITLE:**

**INSTITUTIONAL AFFILIATION:**

**INSTITUTIONAL ADDRESS:**

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<th>(City)</th>
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<th>(Country)</th>
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**TELEPHONE NUMBER:**

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*(If outside the United States list country and city codes.)*

**E-MAIL ADDRESS:**

**PRIMARY FIELD OF RESEARCH (Please check only one):**

- Biochemistry and Biophysics
- Biostatistics
- Cellular Biology and Genetics
- Clinical Investigations
- Epidemiology
- Immunology
- Molecular Biology and Genetics
- Preclinical Pharmacology and Experimental Therapeutics
- Virology
- Other: (Please specify)

**ACADEMIC DEGREES** (Including where and when granted)

**EXPERIENCE SINCE HIGHEST DEGREE WAS GRANTED** (Please list most recent first)

**PUBLICATIONS** (Reprints of two peer-reviewed articles on which the candidate appears as an author must accompany this application. For these two articles list the authors, title, journal, volume, inclusive pages, and year. Do not submit abstracts. If submitting patents, supply patent number and year awarded.)

**CANDIDATE IS APPLYING FOR** (Check one):

- Active Membership
- Corresponding Membership

**CANDIDATE NOMINATED BY:**

*(Please print)*

**CANDIDATE SECONDED BY:**

*(Please print)*

**STATEMENT OF SUPPORT**

Instead of submitting letters of recommendation, either the nominator or the seconder or both may complete the following section:

I acknowledge by signing this statement of support, that this candidate adheres to accepted ethical scientific standards and has or will make a long-term contribution to cancer research.

**Signature of Nominator:**

**Date:**

**Signature of Seconder:**

**Date:**

See Guidelines for Application on the reverse side of this form for further instructions.

*Both nominator and seconder must be Active, Corresponding, Emeritus, or Honorary members of the AACR in good standing.*
QUALIFICATIONS FOR MEMBERSHIP

Associate membership is open to graduate students, medical students, postdoctoral fellows, and physicians in training who are following a course of study or who are working in a research program relevant to cancer. Scientists in training who already have a substantial record of publications may wish to apply for active or corresponding membership which confers full benefits of membership.

BENEFITS OF MEMBERSHIP

The American Association for Cancer Research (AACR), a scientific society consisting of laboratory and clinical cancer researchers, was founded in 1907 to facilitate communication and dissemination of knowledge among scientists and others dedicated to the cancer problem; to foster research in cancer and related biomedical sciences; to encourage presentation and discussion of new and important observations in the field; to foster public education, science education, and training; and to advance the understanding of cancer etiology, prevention, diagnosis, and treatment throughout the world. Associate members of the AACR enjoy the following benefits:

1. the privilege of sponsoring a proffered paper (abstract) for consideration for presentation at the AACR annual meeting provided that (a) the associate member is the presenter of the paper and (b) an active, corresponding, emeritus, or honorary member in good standing of the AACR also signs the abstract of the paper in support of the work. (In this instance, the member who cosigns the abstract does not lose his or her own sponsorship privilege);

2. optional subscriptions to the Association's high-quality journals: Cancer Research, Clinical Cancer Research, Cell Growth & Differentiation, and Cancer Epidemiology, Biomarkers & Prevention at reduced member rates; beginning in 1998 associate members will be able to purchase AACR journals for half the price of a regular member subscription;

3. the privilege of registering for the annual meeting at the low associate member rate;

4. the privilege of electing an Associate Member Council that organizes programs benefiting associate members and that presents their concerns to the AACR Board of Directors;

5. the opportunity to stand for election to the Associate Member Council;

6. preferred access to the AACR Employment Register;

7. priority notification of events in the AACR's series of special conferences on timely subjects in the field;

8. substantially reduced registration rates at special conferences;

9. the receipt of AACR newsletters, meeting announcements, and an up-to-date Membership Directory;

10. the opportunity to participate in three Summer Workshops that foster knowledge in the cancer field for young investigators; and

11. the facilitation of informal scientific exchange with leading researchers in the cancer field.

PROCEDURES FOR APPLICATION

Persons wishing to apply for associate membership must use the official application form on the reverse side of these instructions. Each candidate for associate membership must be nominated by an active, corresponding, emeritus, or honorary member in good standing of the AACR. Three completed copies of the form should be submitted; at least one of these copies must carry the original signatures of both the candidate and the nominator. In addition, the candidate should submit one copy of his or her curriculum vitae. The application may be submitted to the Association Office at any time.

After review of applications for associate membership, the Executive Director will notify candidates of their election or deferral within one month of the receipt of the application form. A check for one year's dues payment must accompany the application. Dues for 1998 and 1999 are $55 for associate members residing in the Americas and $65 for residents of other countries. This fee will be refunded to any candidate deemed to be ineligible for associate membership. Checks should be in U.S. currency, made payable to AACR, Inc., and drawn on a U.S. bank. Send the three copies of the application form and the appropriate dues payment to:

Membership Services Department
American Association for Cancer Research
Public Ledger Building, Suite 126
150 S. Independence Mall West
Philadelphia, PA 19106-3483
Phone: 215/440-9500
Fax: 215/440-9412
Email: membership@aacr.org

RESPONSIBILITIES OF MEMBERSHIP

Associate members must pay annual dues in an amount to be determined by the AACR Board of Directors. Dues for 1998 and 1999 have been set at $55 per year for residents of the Americas and $65 for residents of other countries. If an application is submitted by August 31, the accompanying dues payment will be credited to the current year. Candidates submitting applications between September 1 and December 31 may indicate whether they wish their dues payments credited to the current or forthcoming year. Candidates should be aware, however, that associate members may sponsor an abstract for the annual meeting only if their dues for the current year are paid. For example, an associate member submitting an abstract in November 1998 for the forthcoming annual meeting must have paid dues for 1998. Any newly elected associate members of the AACR who have already purchased subscriptions to Cancer Research, Clinical Cancer Research, Cell Growth & Differentiation, or Cancer Epidemiology, Biomarkers & Prevention at the higher, nonmember rate will receive a refund for the unused portion of that subscription upon receipt of their payment for a member's subscription.

Each fall the AACR will send to current associate members an invoice for dues for the forthcoming year. Payment of this invoice must be accompanied by a statement signed by the member's registrar, dean, or department head, verifying the member's current academic status. The Association's By-Laws state that dues are payable for each year in advance by January 1 of the year to which they should be applied. An individual may be an associate member for a maximum of five years. Each year in which an individual pays dues will count as one full year of associate membership. Thus, an associate member who pays dues for 1999 may retain associate membership until December 31, 2003. The Board of Directors may terminate the membership of an associate member whose dues are in arrears for two years.

Margaret Foti, Ph.D.
Executive Director
AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC.  
Public Ledger Building • Suite 826 • 150 S. Independence Mall West • Philadelphia, PA 19106-3483

Application for Associate Membership

NAME OF CANDIDATE: ___________________________ DATE OF BIRTH: _______________ ___/___/___

INSTITUTIONAL AFFILIATION: ___________________________ 
INSTITUTIONAL ADDRESS: ___________________________ 

(City) ___________________________ (State/Province) ___________________________ (Country) ___________________________ (Postal Code) ___________________________

TELEPHONE NUMBER: ___________________________ FAX NUMBER: ___________________________

E-MAIL ADDRESS: ___________________________

PRESENT ACADEMIC STATUS/TITLE (Please check only one): 
   Graduate Student  Medical Student  Postdoctoral Fellow

Physician in Training

PRIMARY FIELD OF RESEARCH (Please check only one):
   Biochemistry and Biophysics  Biostatistics  Carcinogenesis
   Cellular Biology and Genetics  Clinical Investigations  Endocrinology
   Epidemiology  Immunology  Molecular Biology and Genetics
   Preclinical Pharmacology and Experimental Therapeutics  Virology  Other: ___________________________

(Please specify)

ACADEMIC DEGREES (Please indicate degree(s) acquired to date along with the name of the academic institution and date of receipt. Provide information on degree currently being sought and the anticipated date of completion of this degree program.)

_________________________________________________________

_________________________________________________________

_________________________________________________________

RELEVANT RESEARCH EXPERIENCE NOT RELATED TO COURSE WORK (Please list most recent first.)

_________________________________________________________

_________________________________________________________

_________________________________________________________

PUBLICATIONS (List the authors, title, journal, volume, inclusive pages, and year of any article in a peer-reviewed journal on which the candidate appears as an author. Do not list abstracts. Continue on a separate sheet, if necessary.)

_________________________________________________________

_________________________________________________________

_________________________________________________________

CANDIDATE NOMINATED BY*:

(Please print)

SIGNATURES

I hereby apply for associate membership in the American Association for Cancer Research. I have read the instructions on the reverse side of this form, and I understand the privileges and responsibilities of this class of membership. I certify that the statements on this application are true.

Signature of Candidate: ___________________________ Date: _______________ ___/___/___

I recommend this candidate for Associate Membership in the American Association for Cancer Research. To the best of my knowledge, the candidate is qualified for this class of membership, and the statements on this application are true.

Signature of Nominator*: ___________________________ Date: _______________ ___/___/___

Submit three copies of this form. At least one copy must contain the original signatures of the candidate and the nominator. In addition, submit one copy of your curriculum vitae. Enclose a check in U.S. funds, made payable to AACR, Inc., and drawn on a U.S. bank for one year’s dues. For 1998 and 1999 dues are $55 for Associate Members residing in the Americas and $65 for residents of other countries.

Check one of the following boxes only if this form is being submitted between September 1 and December 31: The enclosed dues payment should be applied to the current calendar year  □  forthcoming calendar year.

(NOTE: If dues are applied to the forthcoming year, membership will take effect on January 1, but the candidate will not be eligible to sponsor an abstract for presentation at the annual meeting in March or April of that year.) See Guidelines for Application on the reverse side of this form for further instructions.

*Nominator must be Active, Corresponding, Emeritus, or Honorary member of the AACR in good standing.

(This form may be reproduced.)

1999

22
Hotel Reservations

Reserve Early! Deadline – March 12, 1999

GENERAL INFORMATION

The AACR Housing Bureau will handle all housing needs for the Philadelphia meeting. Participating hotels will not honor direct reservations, and published room rates apply only to rooms reserved through the AACR Housing Bureau.

LIST OF HOTELS

All hotels holding rooms for AACR Annual Meeting attendees are described on the following pages. Please see the hotel map which shows the locations of the hotels being used in Center City Philadelphia.

Hotels at the Philadelphia Airport are approximately 15-20 minutes by bus from the Pennsylvania Convention Center.

Hotels on City Line Avenue (Adam’s Mark and Holiday Inn City Line) are approximately 20-30 minutes by bus from the Pennsylvania Convention Center.

AACR will provide frequent complimentary shuttle bus service between airport hotels and the Convention Center, between City Line Avenue hotels and the Convention Center, and between Center City hotels (except the adjacent Marriott) and the Convention Center.

HOTEL DEPOSIT

A $150.00 deposit is required in order to reserve a room. The deposit may be made by credit card or check. YOUR CREDIT CARD WILL BE CHARGED IMMEDIATELY. Acceptable credit cards are American Express, Visa, MasterCard, Eurocard, and Discover. Make checks payable to WRI/AACR Housing Bureau.

FOUR EASY WAYS TO RESERVE HOTEL ACCOMMODATIONS

WEB Reserve a room by visiting the AACR website at www.aacr.org. Attendees who reserve rooms over the Internet will receive an e-mail confirming transmission and a room confirmation by mail. Also visit the website to print an AACR Official Housing Form.

FAX Complete the AACR Official Housing Form enclosed in this booklet and fax to:
1-972-349-7715 (U.S. and International)

PHONE Have the completed AACR Official Housing Form and a credit card ready before calling:
   Toll Free (U.S. only): 1-888-447-2319
   International: 1-972-349-7409

Hours of operation are 8:00 a.m. – 6:00 p.m. (Central Standard Time)

MAIL Complete the AACR Official Housing Form enclosed in this booklet and return it with credit card information or a check made payable to WRI/AACR to:
   AACR Housing Bureau
   P.O. Box 864906
   Plano, TX 75086-4906

HOTEL CHANGES AND CANCELLATIONS

If you are unable to attend the Annual Meeting, please cancel your reservation as soon as possible to allow the room to be reserved by another attendee. All changes and cancellations must be made by contacting the AACR Housing Bureau. For a refund of the deposit, the reservation must be cancelled according to the hotel’s cancellation policy which is, in most cases, 72 hours prior to scheduled arrival. Please verify the hotel’s cancellation policy on the reservation confirmation to make sure that no special conditions apply.
AMERICAN ASSOCIATION FOR CANCER RESEARCH 90TH ANNUAL MEETING
Philadelphia, Pennsylvania • April 10-14, 1999

OFFICIAL HOUSING FORM
RESERVATION DEADLINE: MARCH 12, 1999

One form per room
If more than one form is needed, this form may be duplicated or printed off the internet (www.aacr.org).

☐ New Reservation  ☐ Change  ☐ Cancellation

FAMILY NAME  FIRST NAME  MI

ADDRESS

CITY  STATE  POSTAL CODE  COUNTRY (If not U.S.)

DAYTIME TELEPHONE  FAX

HOTEL PREFERENCE

Map #  Hotel Name:  Map #  Hotel Name:  If none of your hotels are available, which is most important?

1.  ____________________________________________________________________________  3.  ____________________________________________________________________________

2.  ____________________________________________________________________________  4.  ____________________________________________________________________________

Choose one)

☐ LOCATION  ☐ PRICE  ☐ TYPE OF HOTEL

ARRIVAL DATE: April ______  DEPARTURE DATE: April ______

ROOM TYPE  (Check One)

☐ SINGLE  ☐ DOUBLE  ☐ DOUBLEx2  ☐ TRIPLE  ☐ QUAD  ☐ SUITE

1 person – 1 bed  2 people – 1 bed  2 people – 2 dbl. beds  3 people – 2 dbl. beds  4 people – 2 dbl. beds  1 – 2 bedrooms

List names of people you are sharing a room with:
(First & Last Name)

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

RESERVATION DEPOSIT  All hotels require a first night’s deposit of $150.00 to guarantee each room reservation. Credit cards will be charged immediately. If paying by check, make payable to WRI/AACR Housing Bureau. Checks must be in U.S. dollars and drawn on a U.S. bank. Checks must be received within 15 days or the reservation will be cancelled.

METHOD OF PAYMENT

☐ Check or money order enclosed

☐ VISA  ☐ MasterCard  ☐ American Express  ☐ Discover

Card Number  Exp. Date

Signature of cardholder

Special Requests:

☐ King Bed  ☐ Rollaway  ☐ Non-Smoking  ☐ Smoking

Do You Require Special Assistance?

☐ Yes  ☐ No

If you have a disability and require accommodations, please check here and attach a statement regarding your disability-related needs. We cannot assure the availability of appropriate accommodations without prior notification of need.

CANCELLATIONS  Hotel cancellation policies vary. Contact the AACR Housing Bureau to confirm your hotel’s policy.

RETURN TO:

FAX form to: 1-972-349-7715
-OR- MAIL form to: AACR Housing Bureau
P.O. Box 864906
Plano, TX 75086-4906

Reservations can also be made by visiting the AACR website (www.aacr.org) or by calling toll free 1-888-447-2319 (in the U.S.) –or– 1-972-349-7409 (international) from 7:00am – 7:00pm, CST.
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Triple and Quad Rates are Available Upon Request.
All Rates Are Subject to State and Local Taxes Totaling 13%.
1. PHILADELPHIA MARRIOTT (Headquarters Hotel)
The Marriott is connected directly to the Pennsylvania Convention Center and is next to the Gallery Mall. This hotel, standing in the hub of the business and historic districts, has three restaurants offering menus for any guest’s taste. Twenty-four hour room service is also available. Facilities include an indoor lap pool, exercise room, aerobics room, whirlpool, and sauna. The Philadelphia Marriott is only eight miles from Philadelphia International Airport and is easily accessible to major interstates and the train station. Guest rooms have upgraded amenities, and health-club facilities, including cardiovascular equipment, are available.

Rates:
- Single $189
- Double $209

2. ADAM’S MARK
The Adam’s Mark is minutes away from historic Philadelphia, the Philadelphia Art Museum, and the Franklin Institute. Famous restaurants include the Marker and Appleby’s, the Player’s Sports Bar and the popular nightclub Quincy’s/Philadelphia. Indoor/outdoor pools, a well-equipped health club, and free parking are available. Convenient to the Pennsylvania Turnpike, Amtrak’s 30th Street Station, and Philadelphia International Airport.

Rates:
- Single $196
- Double $212

3. AIRPORT HILTON
The Airport Hilton Features 331 guest rooms with large desks, climate control, cable TV, HBO, and complimentary newspaper. Guest can enjoy an indoor pool, whirlpool, and health club. Located across from the Philadelphia International Airport, the Hilton provides complimentary airport shuttle and free parking.

Rates:
- Single/Double $126

4. AIRPORT MARRIOTT
The Airport Marriott opened its doors in 1995. Conveniently located off I-95 and the High Speed Rail Line, the hotel features a unique skybridge connecting the hotel to the Philadelphia International Airport. Additional hotel amenities include the Riverbend Bar and Grill, Concierge Lounge, an indoor lap pool, and an exercise room.

Rates:
- Single/Double $165

5. BEST WESTERN CENTER CITY
From our doors you can walk to the Philadelphia Museum of Art, the Rodin Museum, the Franklin Institute Science Museum, and the Academy of Natural Sciences. We are just minutes from the Pennsylvania Convention Center, the Liberty Bell, Philadelphia Zoo and many of Philadelphia’s finest restaurants. Outdoor pool, pool fitness center, and free parking are available.

Rates:
- Single $89
- Double $99

6. BEST WESTERN INDEPENDENCE PARK
Philadelphia’s great little hotel, set in the heart of “America’s most historic square mile,” the Best Western Independence Park is centrally located near Penn’s Landing, the Liberty Bell, Franklin Court, Society Hill, and Independence Hall and housed in a historically certified Victorian building. Complimentary European breakfast is served daily.

Rates:
- Single $115
- Double $125

7. CLARION SUITES
This historically registered hotel is located one-half block from the Pennsylvania Convention Center and the Gallery shopping mall, and six blocks from all historical attractions. Large suites feature a dining area, full kitchen, two televisions, and more. The hotel features an intimate lobby lounge, a cafe, and a fitness room. Free deluxe continental breakfast daily.

Rates:
- Single $129
- Double $139

8. COMFORT INN DOWNTOWN
The Comfort Inn features many rooms with waterfront and city views, complimentary deluxe continental breakfast, on-site parking, and courtesy van service to area restaurants, attractions, hospitals, and the Pennsylvania Convention Center. The hotel is within walking distance to the Liberty Bell, Betsy Ross House, Independence Mall, Independence Seaport Museum, and Penn’s Landing Park, and a ferry ride away from the New Jersey State Aquarium at Camden.

Rates:
- Single $109
- Double $119

9. CROWNPLAZA CENTER CITY
The Crowne Plaza offers a central location in the heart of one of the largest commercial, cultural, and historical centers in the country. The Pennsylvania Convention Center is only six blocks away. The hotel features the Elephant & Castle Pub & Restaurant serving breakfast, lunch, dinner and late-night snacks, along with a lobby espresso bar, The E&C Express.

Rates:
- Single $149
- Double $163

10. DOUBLETREE HOTEL
The Doubletree is within walking distance of the Philadelphia Convention Center, just one mile from Amtrak’s 30th Street Station and 20 minutes from the Philadelphia International Airport. Spacious guest rooms with a panoramic view of the city are across the street from the Academy of Music, the Merriam Theater, and adjacent to the Wilma Theater. The health club features an indoor swimming pool, two racquetball courts, a roof garden with a jogging track, whirlpool, saunas, and steam rooms.

Rates:
- Single $169
- Double $189

11. EMBASSY SUITES CENTER CITY
The Embassy Suites Center City is located on Logan Square in the heart of the city’s cultural center and within walking distance to all of Center City and the Pennsylvania Convention Center. All suites have a living room, kitchen area with refrigerator, wet bar, microwave, and coffee makers, and a separate bedroom with television. Free breakfast buffet each morning and beverages at the manager’s reception each evening. The hotel also has a 24-hour fitness room and sauna.

Rates:
- Single/Double $152

12. EMBASSY SUITES AIRPORT
This all-suite hotel is conveniently located one mile from the Philadelphia International Airport. Complimentary breakfast and a two-hour manager’s reception are included with every stay. Indoor pool and workout area are available. Complimentary shuttle service to and from the airport.

Rates:
- Single/Double $129

13. FOUR POINTS SHERATON
At the Four Points Sheraton, you can take a swim in our outdoor pool or head outside for some exercise on our jogging trail. For dining, there’s the trendy Newstand Café, open for breakfast, lunch, or dinner. Located adjacent to Philadelphia International Airport, the Four Points Hotel is just minutes from Center City Philadelphia. Complimentary airport shuttle is also available.

Rates:
- Single/Double $99

14. FOUR SEASONS
The proximity to the city’s premier cultural attractions and the Pennsylvania Convention Center makes the Four Seasons Hotel an ideal location. Features include a full-service spa/health club, indoor pool, the Fountain Restaurant, one of the nation’s most acclaimed restaurants, exquisite Sunday brunch, and the Swan Lounge Viennese dessert buffet. Live music Thursday through Saturday.

Rates:
- Single/Double $237

15. HAWTHORN SUITES
The Hawthorn Suites Hotel is located directly adjacent to the Pennsylvania Convention Center at 11th and Vine Streets. This all-suite hotel offers spacious studio and one-bedroom suites. All units have efficiency kitchens that feature a microwave, refrigerator, wet bar area, and coffee maker. Included in the group rate is a daily complimentary full breakfast buffet and social hour Monday through Thursday. Other features and amenities include: dual phone lines, convenient laptop hookup, exercise room, on-site convenience store, free HBO, free daily newspaper, free local phone calls, and valet parking.

Rates:
- Studio $119
- 1-br suite $129

16. HOLIDAY INN AIRPORT
The Holiday Inn Philadelphia International Airport is located 3 miles south of Philadelphia International Airport. The hotel features an executive floor, seasonal pool, health facility, and complimentary 24-hour airport transfer. Landings Bar and Grille serves breakfast, lunch, and dinner, and Room Service is available until 11PM. Each room includes a hair dryer, coffee maker, iron, and ironing board.

Rates:
- Single/Double $110
17. HOLIDAY INN CITY LINE
The Holiday Inn City Line is located in a lovely suburban-like location just northwest of Center City Philadelphia. What makes this location nice is that City Avenue divides Philadelphia from its affluent surrounding neighborhoods and distinguished universities. Free parking, indoor/outdoor pool, and more.
Rates: Single/Double $119

18. HOLIDAY INN EXPRESS
The Holiday Inn Express offers a free deluxe breakfast bar and complimentary local phone calls. The midtown location is within walking distance from historic and cultural attractions, shopping, and the Pennsylvania Convention Center. Easy access to Philadelphia International Airport, Amtrak's 30th Street Station, Sports Complex, and all major highways. Other amenities include self-parking, valet parking, and free access to Rally's Total Fitness Center.
Rates: Single $110 Double $115

19. HOLIDAY INN INDEPENDENCE MALL
The Holiday Inn Independence Mall is located in the heart of the nation's "most historic square mile," within two blocks are Independence Mall, the Liberty Bell, the Betsy Ross House, Franklin Court and the U.S. Mint. Also, it is just three blocks from Penn's Landing and waterfront events. Holiday Inn Independence Mall offers beautifully appointed rooms, the convenience of two restaurants, a lounge, room service, and a gift shop.
Rates: Single $134 Double $144

20. HOLIDAY INN STADIUM
The Holiday Inn Stadium is conveniently located just ten minutes away from the Philadelphia International Airport and only five minutes to Philadelphia's Business and Historic districts. Our amenities include hair dryers and ironing boards in each room. We offer breakfast, lunch, and dinner at our beautiful full service restaurant "Jaws", and spirited libations, your favorite sandwich, and favorite sporting event at our sports bar "Philly Legends." Plenty of complimentary parking is available to all our guests.
Rates: Single/Double $129

21. KORMAN SUITES
This unique hotel has spacious guest suites in the heart of Philadelphia's museum/cultural district and is within walking distance to nightlife and all of Center City. Each room features a microwave, coffee maker, and refrigerator. Spectacular city views, a full-service fitness center, complimentary covered parking, and complimentary shuttle service are available. Also featured is The Grill at Catalina, which offers outstanding Italian cuisine.
Rates: Studio $135 Double $155

22. LATHAM
Located in the heart of Center City, this European-style boutique hotel is known for its intimate, understated elegance and personalized service. Added amenities include nightly turn-down service, imported chocolates, HBO, CNN, ESPN, and in-room movies. Complimentary health-club facilities are available.
Rates: Single $145 Double $165

23. OMNI INDEPENDENCE PARK
This luxury hotel is located in the heart of Independence National Historic Park. All rooms have a dramatic view of the park, minibar, and two phones with computer/fax capabilities. The Omni is within walking distance to Independence Mall, the Liberty Bell, Penn's Landing and trendy South Street. The critically acclaimed Azalea Restaurant invites you to experience award-winning regional cuisine.
Rates: Single $199 Double $219

24. PARK HYATT PHILADELPHIA AT THE BELLEVUE
This intimate four-star, four-diamond hotel features French Renaissance architecture crowning the top floors of the restored Bellevue Building. Luxurious guest rooms and suites feature 14-foot ceilings, American Empire-style furnishings, marble baths, and 24-hour room service, as well as a European-style concierge and turn-down service. Enjoy the award winning Founders Dining Room or English afternoon tea. Spa/salon, fitness club, retail shops, food court, offices, and parking garage are also housed within the complex. The hotel is located downtown on the Avenue of the Arts in the heart of the city's theater and cultural district.
Rates: Single/Double $180

25. RADISSON AIRPORT
The Radisson is conveniently located only one mile from the Philadelphia International Airport and easily accessible via Interstates 95, 76 and Routes 291 & 476. A health/fitness area with indoor swimming pool, whirlpool, and exercise equipment are featured in the hotel. The Chesapeake Grille Restaurant offers delicious meals from breakfast through dinner in a contemporary setting. The Atrium Lobby Lounge features a delightful piano bar, Monday through Friday. Trophies sports bar has a 60's flair with entertainment seven days a week.
Rates: Single/Double $155

26. RITZ CARLTON
This AAA Five Diamond property is ranked in the top 20 U.S. hotels by Conde Nast Traveler and Zagat. The hotel is located near Philadelphia's business, retail, cultural, and family-oriented attractions. It offers 24-hour room service, fitness center, massage services and valet parking. The Club level features key-only access and a private lounge and concierge. The Dining Room, The Grill, and The Lobby Lounge are noted for outstanding service and cuisine.
Rates: Single $182 Double $197

27. SHERATON SOCIETY HILL
The newly renovated Sheraton Society Hill is located in the heart of "America's most historic square mile." Guests can enjoy complimentary use of the health club complete with pool, sauna, and top-of-the-line exercise equipment. Ladybug's Bistro American is open seven days a week for breakfast, lunch, and dinner. The atrium courtyard serves daily continental breakfast, lunch, and cocktails. The Wooden Nickel Pub is also open nightly.
Rates: Single $177 Double $197

28. SHERATON UNIVERSITY CITY
Adjacent to the University of Pennsylvania and Drexel University, this hotel has covered parking, restaurant, deli, lounge, room service, gift shop, and remote TV with Showtime, ESPN, and CNN. The Club floor offers complimentary continental breakfast and afternoon hors d'oeuvres.
Rates: Single/Double $134

29. THE WARWICK
The Warwick, Philadelphia's luxury boutique hotel, boasts a premier location for entertainment and business. Nearby are many fine shops, highly acclaimed restaurants, theaters, museums, and galleries. Enjoy casual but elegant dining in Mia's Restaurant and Mezzano Bar, formal dining in the Prime Rib or visit Capriccio's Coffee Shop for cappuccino and pastries.
Rates: Single $146 Double $156

30. WESTIN SUITES AIRPORT
The Westin Suites is located just 5 minutes from the Philadelphia International Airport and 15 minutes from the Philadelphia Convention Center. We offer complimentary parking and a free shuttle to and from the airport. This all-suite atrium style hotel offers a newly renovated health facility with an indoor and outdoor pool, jacuzzi, sauna, steam room, and exercise room. We also feature a choice of restaurants and a lounge that features world class cocktails and micro brews. We even have an Express Car Rental desk for your convenience. The Westin Suites is not only all-suite, but all-service.
Rates: Single/Double $129

31. WINDSOR
The Windsor is located at 17th and the Parkway. The Windsor commands a spectacular view of the fountains and museums for which Philadelphia is famous. The hotel is surrounded by legendary cultural and historic attractions, and Philadelphia's greatest concentration of fine restaurants, specialty stores, and night spots. The hotel features a rooftop swimming pool, fitness center, panoramic balcony views, complimentary continental breakfast, valet dry cleaners, full service beauty salon, cable TV, on-site restaurant, concierge, and instant phone service.
Rates: Single/Double $125

32. WYNDHAM FRANKLIN PLAZA
Amid historical and cultural sites, just steps away from the Ben Franklin Parkway museums and the Pennsylvania Convention Center, the hotel is adjacent to I-676 with easy access to I-95 and the New Jersey Turnpike. Facilities include indoor pool, sauna, and whirlpool at the private health club. Underground parking is available.
Rates: Single $169 Double $189
AMERICAN ASSOCIATION FOR CANCER RESEARCH

1999 AACR YOUNG INVESTIGATOR AWARDS

To Support Attendance at the AACR Annual Meeting

AACR Young Investigator Awards support the attendance of medical and graduate students, physicians-in-training, and postdoctoral fellows at the AACR Annual Meeting. Awards are presented to young scientists who are presenters of abstracts that have been highly rated by the AACR Annual Meeting Program Committee. Deadline for submission of abstracts is November 6, 1998. Federal government employees are eligible for AACR Young Investigator Awards, but employees of private industry are not. AACR Young Investigator Awards are generously sponsored by: Amgen, Inc., AACR, Bristol-Myers Squibb Oncology, Genetics Institute, Pharmacia & Upjohn, Inc., PharMingen, among others.

Special eligibility restrictions or application procedures apply to the following Young Investigator Awards:

AACR Gerald B. Grinsidey Memorial Young Investigator Award honors the research accomplishments of the late Dr. Gerald B. Grinsidey. The award is presented to a young scientist submitting an abstract in the field of preclinical science. Deadline for submission of abstracts is November 6, 1998.

AACR-AFLAC Scholar Awards support the travel and subsistence expenses of AACR Associate Members who are presenters of highly rated abstracts at AACR’s Annual Meeting. Candidates must be AACR Associate Members or submit an Associate Member application no later than the abstract submission deadline of November 6, 1998. These awards are sponsored by AFLAC, Inc., as part of its support of AACR’s Associate Member program.

AACR-ITO EN, Ltd. Young Investigator Awards for Asian Scientists are awarded to young researchers who are presenters of highly rated abstracts and who will be traveling to the Annual Meeting from throughout Asia. Deadline for submission of abstracts is November 6, 1998.

AACR Minority Scholar Awards support attendance at the Annual Meeting and AACR Special Conferences through the Comprehensive Minority Biomedical Program of the National Cancer Institute (NCI). Young scientists from minority groups considered underrepresented in cancer research by NCI are eligible for these awards, i.e., African Americans, Hispanic Americans, Native Americans, Native Pacific Islanders, and Alaskan Americans. A separate application form is required and can be obtained by contacting the AACR office. The application deadline is December 4, 1998.

Women In Cancer Research Brigid G. Leventhal Scholar Awards are for young investigators who are presenters of highly rated abstracts at the AACR Annual Meeting. A separate application form is required and can be obtained by contacting the AACR office. The awards are sponsored by Women In Cancer Research, an adjunct organization of AACR. The application deadline is December 4, 1998.

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
## AACR FORTHCOMING SCIENTIFIC CONFERENCES

### OCTOBER 14-18, 1998

**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

### NOVEMBER 11-15, 1998

**Endogenous Sources of Mutations**

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

### DECEMBER 2-6, 1998

**New Research Approaches to the Prevention and Cure of Prostate Cancer**

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

### JANUARY 8-12, 1999

**The Steroid Receptor Superfamily**

Chairpersons: Michael G. Rosenfeld, La Jolla, CA, and Christopher K. Glass, La Jolla, CA  
Renaissance Esmeralda Resort, Indian Wells (Palm Springs), CA

### JANUARY 31-FEBRUARY 5, 1999

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

Chairpersons: Tyler Jacks, Cambridge, MA, and Ronald A. DePinho, Boston, MA  
Keystone Resort, Keystone, CO

### MARCH 4-8, 1999

**Molecular Determinants of Sensitivity to Antitumor Agents**

Chairpersons: Michael B. Kastan, Memphis, TN, and I. David Goldman, Bronx, NY  
Whistler Resort and Conference Centre, Whistler, British Columbia, Canada

### SEPTEMBER 22-26, 1999

**Molecular Aspects of Metastasis**

Chairperson: Ruth J. Muschel, Philadelphia, PA; Additional Chairperson to be Announced  
Snowmass Village Resort, Snowmass, CO

### OCTOBER 6-10, 1999

**The Molecular and Genetic Basis of Chemoprevention and Early Detection of Cancer**

Chairpersons: David Sidransky, Baltimore, MD, and Frank L. Meyskens, Jr., Irvine, CA  
Sheraton Bal Harbour Resort, Bal Harbour, FL

AACR members will receive brochures on the above conferences as soon as they are available.  
Nonmembers should call or write:  
American Association for Cancer Research  
Public Ledger Building, Suite 826  
150 South Independence Mall West  
Philadelphia, PA 19106-3483  
215-440-9300 • 215-440-9313 (FAX)  
E-Mail: meetings@aacr.org

For regular updates to this list visit the AACR's Website, http://www.aacr.org
Advance Registration

1. **What is the deadline for submitting my registration form?**

There are multiple deadlines: if you register by December 1 you will pay the low "early bird" registration fee. If you register after December 1 but on or before February 1 you will pay the "advance registration" fee. From February 1 to February 22 you may still register by mail or fax but you must pay the on-site registration fee.

2. **What if I don't register by February 22?**

Registration forms received in the AACR office after February 22 will not be processed. However, you may register on site at the Pennsylvania Convention Center in Philadelphia.

Registration hours will be 9:00 a.m. to 8:00 p.m. on April 10; 6:30 a.m. to 4:00 p.m. on April 11, 12, and 13; and 6:30 a.m. to 2:00 p.m. on April 14.

3. **I am a postdoctoral fellow. May I register at the student rate?**

No, you must pay the nonmember rate unless you are or become an Associate Member of AACR (see #4 below).

4. **I am a predoctoral student, postdoctoral fellow, or physician-in-training, and I want to become an Associate Member and pay the Associate Member registration fee. What must I do?**

You may submit an application for Associate Membership either before or with your Annual Meeting Registration Form, but both must be submitted no later than February 15, 1999, as review of the Associate Member application may delay processing of registration. You may register at the Associate Member rate on the assumption that your application will be accepted; if it is not accepted we will notify you, and you will be required to register at the nonmember rate.

5. **I am not currently an AACR member but I have applied or will apply for Active or Corresponding Membership by the September 1, 1998, or January 1, 1999, deadlines. Which registration fee applies?**

You must pay the nonmember registration fee. However, when you are officially notified of your election to AACR Membership, you may contact the AACR Office and receive a refund of the difference between the member and nonmember fees.

6. **What is your refund policy?**

Refunds on registration fees will be granted on written request received in the AACR Office by March 26, 1999. Requests received after this date will not be honored. Receipts and badges (if they have been mailed) must be returned to the AACR Office with the refund request. A cancellation fee of $35 will be deducted from all refunds to cover administrative costs. Copies of the *Proceedings* may not be returned; an additional $45 will be deducted from the refunds of nonmembers to cover the cost of the *Proceedings*.

7. **How do I receive my Annual Meeting Program and Proceedings?**

AACR Members. All AACR members in North America whose 1999 dues are fully paid by February 1, 1999, will automatically receive a copy of the *Program and Proceedings* prior to the Annual Meeting. AACR members overseas who have paid their 1999 dues by February 1, 1999, will also automatically receive a copy of the *Program and Proceedings*; however, the receipt of these issues prior to the Annual Meeting is not guaranteed. Members outside North America who wish to ensure that they receive the *Program and Proceedings* prior to the annual meeting should check the "Optional Overseas Surcharge" box on the registration form; for an additional fee of $25 the *Program and Proceedings* will be sent via airmail. This service is not available after February 1, 1999. Please note that AACR members who have not paid their 1999 dues will not be sent a *Program and Proceedings* and will not be allowed to register for the Annual Meeting at the member rate.

Nonmembers. Nonmembers in North America who register by February 1 will receive a *Program and Proceedings* prior to the Annual Meeting. Nonmembers who are overseas and wish to ensure that they receive the *Program and Proceedings* prior to the Annual Meeting may check the "Optional Overseas Surcharge" box on the registration form; for an additional fee of $25 the *Program and Proceedings* will be sent via airmail. This service is not available after February 1, 1999.

Additional copies of the *Proceedings* are available for sale from the AACR Office. Fax requests to 215-440-7228.

8. **Are there special requirements that nonmember predoctoral students must fulfill in order to register at the predoctoral student rate?**

In order to register at the predoctoral student rate, students must complete the "Nonmember Predoctoral Student Certification" section of the registration form, which requires a signature of the registrar, dean, or department head confirming status. Predoctoral student registration forms that do not have this section completed will not be processed. Those wishing to register in Philadelphia at the predoctoral student rate must bring a similar statement on official letterhead in order to register on site at the student rate.

Note: If you have registered at any member rate and have not paid your 1999 dues by February 22, 1999, you will receive an invoice for the difference between the registration fee you paid and the appropriate nonmember rate.
AMERICAN ASSOCIATION FOR CANCER RESEARCH 90TH ANNUAL MEETING
Philadelphia, Pennsylvania • April 10-14, 1999

REGISTRATION FORM

Deadlines:
- December 1, 1998 for low "early bird" rates and to ensure receipt of meeting materials by mail in March
- February 1, 1999 for reduced rates and to ensure receipt of meeting materials by mail in March
- February 15, 1999 for application for Associate Membership in order to register at member rate
- February 22, 1999 for all registration by mail or fax (registration forms received after this date will not be accepted)
- March 26, 1999 to cancel registration and receive refund less cancellation fee

1. NAME AND ADDRESS INFORMATION (please print or type)

<table>
<thead>
<tr>
<th>First Name/Middle Initial</th>
<th>Last Name</th>
<th>Are You an AACR Member?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title/Department</td>
<td>Institution</td>
<td>Street, Building, or Post Office Box</td>
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<tr>
<td>City</td>
<td>State or Province</td>
<td>Zip/Postal Code</td>
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<td>Telephone</td>
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E-Mail

☐ Check this box if you require special accommodations to fully participate in the meeting.

Describe briefly:

2. REGISTRATION RATES

<table>
<thead>
<tr>
<th>Active/Corresponding Member</th>
<th>December 1</th>
<th>December 2-February 1</th>
<th>After February 1</th>
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<tbody>
<tr>
<td>Nonmember</td>
<td>$350</td>
<td>$395</td>
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<td>Associate Member</td>
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<td>$105</td>
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<tr>
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<td>$135</td>
<td>$155</td>
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<tr>
<td>Nonmember Predoctoral Student (includes copy of AACR Proceedings)</td>
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<tr>
<td>Honorary Member</td>
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<tr>
<td>Optional Overseas Surcharge</td>
<td>$25</td>
<td>$25</td>
<td>N.A.</td>
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</tbody>
</table>

TOTAL ENCLOSED OR CHARGED

3. METHOD OF PAYMENT

☐ Check or money order enclosed, payable to American Association for Cancer Research, in U.S. currency, drawn on a U.S. bank.

☐ VISA ☐ MasterCard ☐ American Express ☐ Eurocard

Card Number ___________ Exp. Date: ___________

Signature of cardholder

4. ADDITIONAL REGISTRANT INFORMATION

Primary Field of Research (Please Circle Only One):
1. Biochemistry/Biophysics
2. Carcinogenesis
3. Cellular Biology and Genetics
4. Clinical Investigations
5. Endocrinology/Signal Transduction
6. Epidemiology
7. Experimental Therapeutics
8. Immunology
9. Molecular Biology and Genetics
10. Prevention
11. Radiobiology/Radiation Oncology
12. Virology
13. Other (please specify):

☐ Are you the presenter of an abstract submitted for the 1999 Annual Meeting?
☐ Yes ☐ No

☐ Check this box if you are a high school or undergraduate student. This information will be used for the organization of a special educational event during the Annual Meeting for students interested in pursuing careers in science.

5. NONMEMBER PREDOCTORAL STUDENT SECTION

This section must be completed if you are a nonmember predoctoral student. Forms without certification will not be processed.

NONMEMBER PREDOCTORAL STUDENT CERTIFICATION

(please print or type)

I certify that the above named student is presently enrolled at this University and working toward a doctoral degree in a field related to cancer research.

SIGNATURE (Registrar, Dean or Dept. Head) ___________

TITLE ___________

UNIVERSITY ___________

6. RETURN TO:

Annual Meeting Registration
American Association for Cancer Research
Public Ledger Building, Suite 826
150 South Independence Mall West
Philadelphia, PA 19106-3483

Fax: 215-440-7228

NOTE: THE INFORMATION ON THE REVERSE SIDE OF THIS PAGE IS CONSIDERED PART OF THE REGISTRATION FORM.
FORMS WITHOUT PAYMENT WILL NOT BE PROCESSED.
### 1999 PROGRAM COMMITTEE MEMBERS

(Continued)

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<tr>
<td>Cell Biology Aspects</td>
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<tr>
<td>Yoon Sang Cho-Chung, Chairperson</td>
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<tr>
<td>Matthew J. Ellis</td>
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<td>Susan Jakub</td>
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<tr>
<td>Robert A. Phillips</td>
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<tr>
<td>Cell Death Signaling</td>
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<tr>
<td>Alan R. Eastman, Co-Chairperson</td>
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<tr>
<td>Douglas R. Green, Co-Chairperson</td>
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<td>Arnold H. Greenberg</td>
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<tr>
<td>W. Stratford May</td>
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<td>Timothy J. McDonnell</td>
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<tr>
<td>Tumor Progression, Invasion and Metastasis</td>
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<tr>
<td>Danny R. Welch, Chairperson</td>
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<tr>
<td>Mary J. C. Hendrix</td>
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<td>Janet E. Price</td>
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<td>Joy L. Ware</td>
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<td>Host-Tumor Interactions:</td>
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<td>Angiogenesis and Microcirculation</td>
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<td>Robert Radinsky, Chairperson</td>
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<td>Lee M. Ellis</td>
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<td>Tona M. Gilmer</td>
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<td>Carrie W. Rinker-Scheaffer</td>
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<td>Bruce R. Zetter</td>
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<td>MOLECULAR BIOLOGY SUBCOMMITTEES</td>
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<td>Cancer Genetics I: New Loci and</td>
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<td>Mechanisms of Genomic Alterations</td>
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<tr>
<td>Olli-P. Kallioniemi, Chairperson</td>
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<td>Ake Borg</td>
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<td>Kay Huebner</td>
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<td>Jae-Gahb Park</td>
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<td>Cancer Genetics II: Tumor</td>
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<td>Suppressor Genes – Structure and</td>
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<td>Function</td>
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<td>Graham Casey, Chairperson</td>
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<td>Guillernina Lozano</td>
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<td>Bernard E. Weisman</td>
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<td>Roger W. Wiseman</td>
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<td>Jun Yokota</td>
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<td>Cancer Genetics III: Human and Retroviral Oncogenesis – Structure and Function/Viral Oncogenesis</td>
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<td>Takis S. Papas, Chairperson</td>
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<td>John M. Lehman</td>
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<td>Vicente Notario</td>
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<td>Bertie M. Steinberg</td>
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<td>Harald zur Hausen</td>
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<td>Gene Expression and Epigenetic</td>
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<td>Russell O. Pieper</td>
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<td>Paula M. Vertino</td>
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<td>Gene Regulation and</td>
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<td>Cancer Phenotype</td>
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<td>Frederic G. Barr</td>
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<td>Shi Huang</td>
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<td>CARCINOGENESIS SUBCOMMITTEES</td>
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<td>Biomarkers, Premalignant Lesions,</td>
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<td>and Risk Assessment</td>
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<td>Walter N. Hittelman, Chairperson</td>
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<td>Analytical Epidemiology in</td>
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<td>Populations</td>
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<td>Wong Ho Chow</td>
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<td>Molecular and Genetic Epidemiology</td>
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<td>Christine B. Ambrosone</td>
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<td>Kenneth Offit</td>
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<td>Markers and Mechanisms</td>
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<td>Michael N. Gould, Chairperson</td>
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<td>Pamela L. Crowell</td>
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<td>David R. Spriggs, Co-Chairperson</td>
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<td>Raphael E. Pollock</td>
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<td>Kathleen R. Cho, Co-Chairperson</td>
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<td>Candace L. Gladson</td>
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<td>Lora Hedrick-Ellenson</td>
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<td>William G. Nelson</td>
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<td>Chan H. Park</td>
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<td>Ramon A. Parsons</td>
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<td>Robert Clarke</td>
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<td>Nagahiro Sajo</td>
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<td>Clinical Pharmacology/Modality-</td>
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<td>Based Clinical Research</td>
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<td>Rose C. Donehower, Chairperson</td>
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<td>Carlos Gordon-Cardo</td>
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<td>Supportive Care, Psychosocial Aspects of Cancer, and Survivorship</td>
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<tr>
<td>Jimmie C. Holland, Chairperson</td>
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<tr>
<td>Harvey Jay Cohen</td>
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<td>Molecular and Preclinical Endocrinology: Receptors and Signal Transduction</td>
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Endogenous Sources of Mutations

November 11-15, 1998
Sanibel Harbour Resort and Spa
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TENTATIVE SCIENTIFIC PROGRAM

Mutation Patterns
Jeffrey H. Miller / Los Angeles, CA

Endogenous DNA Damage
Miral Dizdaroglu / Gaithersburg, MD
Lawrence J. Marnett / Nashville, TN
James A. Swenberg / Chapel Hill, NC
David E. G. Shuker / Leicester, England
Nancy L. Oleinick / Cleveland, OH
Gerd P. Pfeifer / Duarte, CA
Erling Seeborg / Oslo, Norway

Significance of Endogenous Mutations
Lawrence A. Loeb / Seattle, WA
Mutsuo Sekiguchi / Fukuoka, Japan
Steven R. Tannenbaum / Cambridge, MA

Additional Speakers to be Announced
Applicants are encouraged to submit abstracts for poster presentation.
Selected proffered papers will also be scheduled for oral presentations.

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Arthur P. Grollman / Stony Brook, NY
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Leona D. Samson / Boston, MA
Tomas Lindahl / London, England
Joyce T. Reardon / Chapel Hill, NC
Malgorzata Zdzienicka / Leiden, The Netherlands

Susceptibility Factors in Endogenous Mutations
Thomas A. Kunkel / Research Triangle Park, NC
Christopher W. Lawrence / Rochester, NY
Mark Meuth / Salt Lake City, UT
Penny A. Jeggo / Falmer, England

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January 31-February 5, 1999
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Richard D. Klausner / Bethesda, MD
J. Michael Bishop / San Francisco, CA

Model Systems I
Suzanne Cory / Melbourne, Australia
Tak W. Mak / Toronto, Ontario, Canada
Neal G. Copeland / Frederick, MD
Stanley J. Korsmeyer / St. Louis, MO
Pier Paolo Pandoi / New York, NY

Genomics/Genetics
David E. Housman / Cambridge, MA
David H. Mack / S. San Francisco, CA
Allan Balmain / Richmond, CA
Peter Demant / Amsterdam, The Netherlands

Cancer Biology
Douglas Hanahan / San Francisco, CA
George D. Yancopoulos / Tarrytown, NY
Philip Leder / Boston, MA
Andrea I. McClatchey / Boston, MA

Applications
Jolene J. Windle / San Antonio, TX
Scott W. Lowe / Cold Spring Harbor, NY
Raymond W. Tennant / Res. Triangle Park, NC
Ronald A. Lubet / Bethesda, MD
Nancy Kohl / West Point, PA

Technologies
Joe W. Gray / San Francisco, CA
Anton Berns / Amsterdam, The Netherlands
Tetsuo Noda / Tokyo, Japan
Arthur Sands / The Woodlands, TX

Cancer Pathways
Martine F. Roussel / Memphis, TN
Guillermina Lozano / Houston, TX
Terry A. Van Dyke / Chapel Hill, NC
Erwin Wagner / Vienna, Austria
Nicole Schreiber-Agus / Bronx, NY

Special Lecture
Harold E. Varmus / Bethesda, MD

Model Systems II
Raju Kucherlapati / Bronx, NY
Glenn T. Merlino / Bethesda, MD
Timothy C. Thompson / Houston, TX

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Eligibility/Selection Process
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For Further Information
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AACR SPECIAL CONFERENCE IN CANCER RESEARCH

The Steroid Receptor Superfamily

January 8-12, 1999
Renaissance Esmeralda Resort
Indian Wells (Palm Springs), CA

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Keynote Session
Bruce M. Spiegelman / Boston, MA
Carl Wu / Bethesda, MD

Structure/Function of Nuclear Receptors
Michael V. Milburn / Research Triangle Park, NC
Roderick E. Hubbard / York, England
Marc Montminy / Boston, MA
Jan-Åke Gustafsson / Huddinge, Sweden
John Baxter / San Francisco, CA

Coactivators/Corepressors I
Charles D. Allis / Rochester, NY
Bert W. O'Malley / Houston, TX
Leonard P. Freedman / New York, NY

Orphans and Ligands
Steven A. Kliewer / Durham, NC
Thomas Perlmann / Stockholm, Sweden
Vincent Giguere / Montreal, Canada

Coactivators/Corepressors II
Mitchell A. Lazar / Philadelphia, PA
Shelley Berger / Philadelphia, PA
David D. Moore / Houston, TX

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Richard A. Heyman / San Diego, CA
Malcolm G. Parker / London, England
Keiko Ozato / Bethesda, MD
Myles A. Brown / Boston, MA
Donald P. McDonnell / Durham, NC

Transcriptional Control Mechanisms
James T. Kadonaga / San Diego, CA
Yoshihiro Nakatani / Bethesda, MD
Alan P. Wolfe / Bethesda, MD

Nuclear Receptors, Development, and Regulation
Ming-Jer Tsai / Houston, TX
Ronald M. Evans / La Jolla, CA
Günther Schütz / Heidelberg, Germany
Holly A. Ingraham / San Francisco, CA

Additional Speakers to be Announced

Application Deadline: November 23, 1998

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