An Exciting Multidisciplinary Program for Laboratory and Clinical Cancer Researchers

In This Booklet:
• Abstract Submission Forms and Instructions
• Preliminary Program Information
• Information on Awards for Young Basic and Clinical Investigators
• AACR Membership Application Forms
# AMERICAN ASSOCIATION FOR CANCER RESEARCH
## 89TH ANNUAL MEETING

Frank J. Rauscher III, Program Committee Chairperson  
Ernest N. Morial Convention Center, New Orleans, LA  
March 28-April 1, 1998

### Preliminary List of Topics for Symposia and Meet-the-Expert Sunrise Sessions

<table>
<thead>
<tr>
<th>Inherited Cancer Susceptibility Syndromes: Genetics, Genes, and Function</th>
<th>Molecular Targets and Endpoints for Chemoprevention</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emerging Concepts in Individual Cancer Susceptibility</td>
<td>The Latest in Telomere and Telomerase Function: Proof of Principle?</td>
</tr>
<tr>
<td>Tobacco and Lung Carcinogenesis: Genetics, Biology, and Etiology</td>
<td>Histone (De) Acetylation and Chromatin Remodeling</td>
</tr>
<tr>
<td>Organ-Site Specific Tumorigenesis: Basic Science and Clinical Aspects</td>
<td>DNA Repair</td>
</tr>
<tr>
<td>of Breast and Ovarian Cancer</td>
<td>Advances in Drug Resistance: Basic and Clinical</td>
</tr>
<tr>
<td>Prostate Cancer</td>
<td>Growth Factor Signaling</td>
</tr>
<tr>
<td>Gastrointestinal Cancer</td>
<td>Antisense in Clinical Trials</td>
</tr>
<tr>
<td>Hematologic Malignancies</td>
<td>Nuclear Transports</td>
</tr>
<tr>
<td>Tumor Physiology: Tumor-Stromal, Cell-Cell, and Microenvironment Interactions</td>
<td>Integrin Signaling</td>
</tr>
<tr>
<td>An Integrated Approach to Angiogenesis: Inducers and Inhibitors from the Bench to the Bedside</td>
<td>Metalloproteinases</td>
</tr>
<tr>
<td>Wnt Signalling Pathways in Human Tumorigenesis: APC/Beta Catexin/TCF-LEF</td>
<td>Radiation Sensitization</td>
</tr>
<tr>
<td>Cell Death Signalling Pathways: Caspase Cascades and Effectors/Initiators of Apoptosis</td>
<td>Myelodysplastic Syndrome</td>
</tr>
<tr>
<td>The bcl-2 Family: Regulation and Effectors</td>
<td>Cytokine Signaling</td>
</tr>
<tr>
<td>Transcriptional Regulation of the Neoplastic Phenotype</td>
<td>Cell Cycle Control</td>
</tr>
<tr>
<td>Developmental Biology-based Approaches to Tumorigenesis: Genetic Control of Pattern Formation and Organogenesis</td>
<td>Leukemia and Solid Tumor Translocations</td>
</tr>
<tr>
<td>Reconstruction of Human Tumorigenesis and Progression: Cancer Genetics in Model Organisms</td>
<td>COX-2 Inhibitors</td>
</tr>
<tr>
<td>New Concepts in Genome Damage in Cancer: Initiation and Progression</td>
<td>Nuclear Hormone Receptors</td>
</tr>
<tr>
<td>Molecular Determinants of Cellular and Tumor Responses to Radiation</td>
<td>Chemoprevention Clinical Trials</td>
</tr>
<tr>
<td>New Mechanisms of Action of Viral and Cellular Oncogenes</td>
<td>Gene Transfer to Hematopoietic Progenitors</td>
</tr>
<tr>
<td>Tumor Virolology: Molecular Biology and Etiology</td>
<td>IL-12: Biological and Clinical Developments</td>
</tr>
<tr>
<td>Genetic Approaches to Diagnosis: The Impact of Molecular Medicine on Early Detection and Diagnosis</td>
<td>Immunotherapy and Costimulatory Molecules</td>
</tr>
<tr>
<td>The Molecular Basis of Immune Recognition: Basic Concepts with Therapeutic Implications</td>
<td>B-Cell Lymphomas</td>
</tr>
<tr>
<td>Advances in Cancer Vaccine Development</td>
<td>Emerging Issues in Molecular Epidemiology</td>
</tr>
<tr>
<td>Successes in Oncogene-Based Drug Targeting: Selectivity and Specificity?</td>
<td>Immunostimulatory Sequences</td>
</tr>
<tr>
<td>Molecular Diversity-based Approaches to Anticancer Drug Design</td>
<td>Mechanisms of p53 Action</td>
</tr>
<tr>
<td>New Concepts in Antimetabolites: Basic Science and Clinical Trials</td>
<td>IGF-1 and Cancer</td>
</tr>
<tr>
<td>Restoring Drug Sensitivity to Tumors: New Concepts from Tumor Biology and Physiology</td>
<td>Topoisomerasers</td>
</tr>
<tr>
<td>Progress in Cancer Gene Therapy: New Concepts/Targets and Clinical Trial Reports</td>
<td>Brain Tumors</td>
</tr>
<tr>
<td></td>
<td>Vascular Permeability</td>
</tr>
<tr>
<td></td>
<td>Animal Models for Chemoprevention Issues</td>
</tr>
<tr>
<td></td>
<td>Invasion and Metastasis</td>
</tr>
<tr>
<td></td>
<td>Carbohydrates and Cancer</td>
</tr>
<tr>
<td></td>
<td>Genome Project Update</td>
</tr>
<tr>
<td></td>
<td>Fidelity of DNA Replication</td>
</tr>
<tr>
<td></td>
<td>Psychosocial Aspects of Genetic Diagnosis</td>
</tr>
<tr>
<td></td>
<td>Melanoma</td>
</tr>
<tr>
<td></td>
<td>Taxanes, Epibutulins, and Tubulins</td>
</tr>
<tr>
<td></td>
<td>Antibody Therapy</td>
</tr>
<tr>
<td></td>
<td>Combination of Chemotherapy/Biotherapy</td>
</tr>
<tr>
<td>Topic</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Topics of Special Sessions at 1998 Annual Meeting</td>
<td>Opposite Page</td>
</tr>
<tr>
<td>Letter from Program Chairperson, Dr. Frank J. Rauscher III</td>
<td>2</td>
</tr>
<tr>
<td>Regulations Applying to Abstracts and Proffered Papers</td>
<td>3</td>
</tr>
<tr>
<td>Instructions for Preparation and Mailing of Abstracts</td>
<td>4</td>
</tr>
<tr>
<td>Abstract Category/Subclassification List</td>
<td>8</td>
</tr>
<tr>
<td>Copyright Transfer/Conflict of Interest Disclosure Form</td>
<td>11</td>
</tr>
<tr>
<td>Sample Completed Abstract</td>
<td>12</td>
</tr>
<tr>
<td>Official Abstract Forms</td>
<td>13, 15</td>
</tr>
<tr>
<td>Membership Application Forms</td>
<td></td>
</tr>
<tr>
<td>Activity and Corresponding</td>
<td>17</td>
</tr>
<tr>
<td>Associate</td>
<td>19</td>
</tr>
<tr>
<td>Audiotape Order Form (1997 Annual Meeting)</td>
<td>21</td>
</tr>
<tr>
<td>Forthcoming AACR Scientific Meetings</td>
<td>23</td>
</tr>
<tr>
<td>Tentative Schedule of Events</td>
<td>24</td>
</tr>
<tr>
<td>Board of Directors and Program Committee</td>
<td>25</td>
</tr>
</tbody>
</table>

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

On behalf of the President, Dr. Donald S. Coffey, and the 1998 Program Committee, it is my distinct pleasure to have this opportunity to introduce, highlight, and enthusiastically endorse our plans for the 89th Annual Meeting of the AACR in New Orleans, March 28-April 1, 1998.

I strongly urge you to submit an abstract of your most recent research and to participate in this most important function of the AACR's mission. As Chairperson of the Program Committee for the meeting, I have endeavored to assemble an outstanding scientific program which will deliver a comprehensive, state-of-the-art synthesis of the current progress, opportunities, and problems occurring in both basic and clinical aspects of cancer research. Our overriding goal has been to create a truly multidisciplinary program which will appeal to cancer researchers in all areas of expertise, spanning basic, translational and clinical research. As the war on cancer approaches the millennium, the constant crossfertilization of ideas and approaches utilized by investigators from diverse scientific disciplines will continue to catalyze our successes in this war. The AACR Annual Meeting has been and will continue to be the most important international gathering for stimulating and fostering these interactions. With the help of an outstanding Program Committee (see the inside back cover of this booklet), as detailed below, we have made a special effort this year to make your participation in the meeting both easier and more rewarding scientifically.

Our goals in designing and planning this meeting have been strongly influenced by the recognition that, recently, some of the most significant progress in cancer research has resulted from breakthroughs in very specialized and often narrow areas of the field as well as discoveries made possible by new collaborations across previously unrelated disciplines. In this climate, when scientific boundaries are changing and new research directions are emerging, attendance at the AACR Annual Meeting has become more important than ever. As always, the Annual Meeting offers the latest findings in your particular area of expertise. In addition, it offers unparalleled opportunities to hear and meet the researchers in other subdisciplines of the field who are making discoveries that will lead to your next advances. In short, the AACR Annual Meeting is a unique opportunity to explore every aspect of basic, clinical, and translational cancer research and to obtain the information and form the collaborations that are essential for both your current and future investigations.

To make it even easier for you to tap into this wealth of information and expertise, we have thoroughly revised the abstract submission categories. Please take the time to read through the expanded list of categories on Pages 8-10 before selecting a designation for your abstract; we think you will agree that they are more current and comprehensive. Furthermore, we expect this revision to improve the meeting in several important ways:

- **Selection of an abstract category will be easier for those who, in the past, have been uncertain about the best category for their work or about the suitability of the AACR meeting for their presentations.**
- **The categories are presented in an order that we feel better reflects the actual problem of cancer, the path of recent progress in the field, and the likely synergies across subdisciplines. In choosing your specific abstract subclassification, you can more easily identify the appropriate major category (e.g., Molecular Biology, Clinical Investigations, Immunology) in which your work belongs.**
- **Abstracts are more likely to be reviewed and scheduled by the appropriate section of the Program Committee. We anticipate that the result will be more coherent and stimulating sessions of proffered papers.**

Our goal in this First Announcement is to present this expanded abstract category list and to disseminate the necessary abstract forms to the scientific community as soon as possible. In about a month you will receive a Second Announcement that will again contain complete abstract submission information, but which will also contain:

- preliminary information on the opening plenary session, symposia, "meet-the-expert" sunrise sessions, and controversy sessions.
- the advance registration form
- information on travel to and hotel accommodations in New Orleans
- employment register forms
- other important information on the meeting

The Program Committee recently completed an intensive meeting at which it selected topics for the major sessions of invited speakers. I am very excited about the sessions that are currently in development, and I urge you to look for the list in the Second Announcement and also to check the AACR Website periodically (http://www.aacr.org) for updates.

It is a privilege to serve you as Program Committee Chairperson at this exciting time in cancer research. Please join me in making the 89th Annual Meeting of the AACR the most important in the Association's history.

Very truly yours,

Frank J. Rauscher III, Ph.D.
Program Chairperson
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 national 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 review and pre-publication processing. After review of the abstract by the Program Committee, the PRESENTER will be notified about its acceptance 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 has a planned publication date of February 1998.

The paper presented at the annual meeting must coincide directly with the scientific content of the abstract submitted and reviewed 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 production costs incurred as a result of the withdrawal of abstracts after the Proceedings issue is in press.

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, 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 October 28, 1997. 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 October 28 abstract deadline. The work to be presented 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 1998. The deadline for submission of abstracts for consideration for the Late-Breaking Research Session will be February 27, 1998.

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 1997 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.

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 ENDORER 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.

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. (As noted above, however, an associate member may SPONSOR only an abstract that he or she PRESENTS.)

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 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.

Please do not submit applications for active or corresponding membership along with your abstracts.

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.

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INSTRUCTIONS FOR 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 national 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 of cancer through the facilitation of communication and dissemination of knowledge among scientists and others dedicated to the cancer problem. Therefore, the AACR requires strict compliance with the following regulations: When biological or chemical data pertaining to chemical entities are presented, the chemical structure, method of preparation, and patent or reference numbers must be provided. If for any reason this information cannot be presented at the meeting, the abstract on this work should not be submitted for consideration.

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

GENERAL INSTRUCTIONS FOR SUBMISSION OF ABSTRACTS

The AACR will not accept abstracts for the 1998 Annual Meeting via Internet submission or by fax or e-mail delivery.

Abstracts must be submitted on the official 1998 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 by 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.

To facilitate typesetting, authors are requested to send a floppy disk containing the abstract along with the required copies of the official abstract form. A list of acceptable word processing packages and detailed instructions for submitting the floppy disk are given on the following pages. The disk file must match the accompanying paper version of the abstract. If we discover any discrepancy, the paper copy will be considered the final version. If we cannot open or use your disk, or if you cannot supply a disk, we will typeset the abstract from the paper copy.

The accuracy of the submitted abstract is the responsibility of the authors. Every effort will be made to reproduce the abstract exactly as submitted on the abstract form. Errors made on your submitted abstract are therefore likely to appear in print. Careful preparation and proofreading prior to submission are essential.

NOTE: AACR does not assume responsibility for errors in conversion of customized software, newly released software, or special characters.
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 completely filled out 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 8-10 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 AACR Directory of Members.) The SPONSOR, who must be a member of the AACR in good standing through 1997, may SPONSOR only one abstract. (See Page 3 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 an ENDORSEMENT 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. Starting in 1998, ITO EN, Ltd. is underwriting a major enhancement of the AACR's program of travel grants for both American and International Scientists, i.e., an expanded number of awards for young investigators from Asia. ITO EN has already made a commitment to continue its very generous support of this new program through 2002. Submission of an abstract by the deadline of October 28 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 by the Program Committee for scientific merit 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 Indian, Native Alaskan, 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 those countries may receive one of these awards.

   Although preference will be shown to authors of abstracts that have been accepted for presentation at the 1998 AACR Annual Meeting, this is not a requirement for the award. Awardees will be selected on the basis of their qualifications, references from mentors, and an estimation of the potential professional benefit to the awardees. An advisory committee consisting of 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 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 1, 1997. Applicants will be chosen from both minority institutions and the larger bodies 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 the Minority Scholar Program.

6. **Presenter of 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 generally 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 audiotape recording and the subsequent sale of audiotape cassettes of the papers delivered orally at the 1998 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 reproduced for publication either by typesetting from the paper copy of the abstract form or, if possible, by using the floppy disk provided by the author (see below for instructions on supplying a floppy disk). We will not accept disks that are unaccompanied by the required paper copies of the official abstract form. The disk file must match the accompanying paper version of the abstract. If we discover any discrepancy, the paper copy will be considered the final version.

The accuracy of the submitted abstract is the responsibility of the authors. Every effort will be made to reproduce the abstract exactly as submitted on the abstract form. Errors made on your submitted abstract are therefore likely to appear in print. Careful preparation and proofreading are essential prior to submission. NOTE: AACR does not assume responsibility for errors in conversion of customized software, newly released software, or special characters.

Only abstracts submitted on the official 1998 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 12). 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. Symbols and special characters should not be created graphically. Instead, use the character set provided in your word processor. 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. 57: 186-192, 1997, 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. 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. Instead, put the author’s initials in parentheses at the end of his/her affiliation.

Text: Begin the text on a separate line after the affiliations, flush with the left margin of the abstract box. 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.

SUBMITTING A COPY OF THE ABSTRACT ON FLOPPY DISK

To facilitate typesetting, authors are requested to send a floppy disk containing the abstract along with the required copies of the official abstract form.

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BL CELL AND TUMOR BIOLOGY

BL1 Cell Growth Signaling Pathways: Cell Biology Aspects

BL1-01 Growth factors: structure and function

BL1-02 Receptors: structure and function

BL1-03 Signaling: membrane to nucleus

BL1-04 Autocrine-paracrine signaling

BL1-05 Physiology/organizational homeostasis

BL1-06 Cell-matrix interactions

BL1-07 Adhesion and cytoarchitecture inputs

BL1-08 Cell-cell interactions: communication/GAP junctions

BL1-09 Cell-cell adhesion receptors

BL1-10 Tumor-stromal cell interactions

BL1-11 Organogenesis and tumor development

BL1-12 Cell and tissue kinetics/physiology

BL1-13 Tissue remodeling and regeneration

BL1-14 Wound healing and tissue repair

BL1-15 Animal models of tissue host-tumor interactions

BL1-16 Other

MB MOLECULAR BIOLOGY

MBI Cancer Genetics I: New Loci and Mechanisms of Genomic Alterations

New human cancer genes: mapping of loci and cloning

MBI-01 Molecular cytogenetics

MBI-02 Comparative genomic hybridization

MBI-03 LOH and marker studies

MBI-04 Familial cancer and linkage studies

MBI-05 Positional cloning

MBI-06 Expression cloning strategies

MBI-07 New mutation detection methods

Mechanisms of genomic alterations

MBI-08 Cancer genome anatomy: comparative genomics

MBI-09 Gene amplification

MBI-10 Chromosomal translocations: genomic aspects

MBI-11 Genetic instability: multistep progression

MBI-12 Mutator genes: structure/function

MBI-13 Genomic markers of mutator gene status

MBI-14 DNA damage: enzymology/repair of lesions

MBI-15 Transcriptional control of genomic instability

MBI-16 Fragile sites and DNA recombination

MBI-17 Other

MB2 Cancer Genetics II: Tumor Suppressor Genes: Structure and Function

New mutations in human tumors

MB2-01 Genotype/phenotype correlations

MB2-02 New functional aspects of selected known tumor suppressor genes

MB2-03 p53

MB2-04 Rb and family

MB2-05 WT1

MB2-06 NF1/NF2

MB2-07 VHL

MB2-08 DCC

MB2-09 APC

MB2-10 BRCA1

MB2-11 BRCA2

MB2-12 Other

MB2-13 New tumor suppressor genes

MB2-14 Suppressors of metastasis

MB2-15 Tumor suppressor networks - functional pathways

MB2-16 Other

MB3 Cancer Genetics III: Human and Retroviral Oncogenes: Structure and Function

MB3-01 Growth factors and soluble molecules

MB3-02 Protein tyrosine kinases: receptor and nonreceptor

MB3-03 Protein serine-threonine kinases: receptor and nonreceptor

MB3-04 Phosphatases: receptor and nonreceptor

MB3-05 Cytosolic adaptors and intermediate molecules

MB3-06 Guanine nucleotide binding proteins and effectors

MB3-07 Mitogenic signaling kinase cascades

MB3-08 Oncogenic transcription factors

MB3-09 New oncogenes

MB3-10 New oncogene networks

MB3-11 Other

MB4 Gene Expression and Epigenetic Regulation

MB4-01 Cancer genome anatomy: comparative expression patterns

MB4-02 New methods in tumor microdissection/comparative expression

MB4-03 DNA methylation and maintenance

MB4-04 Enzymology of DNA methylation/modification

MB4-05 Imprinting and allele-specific expression

MB4-06 Silencing and reactivation of gene expression

MB4-07 Telomeres and telomerase

MB4-08 Cellular aging and senescence: molecular studies

MB4-09 Other

MB5 Gene Regulation and Transcriptional Control of the Cancer Phenotype

MB5-01 Basic mechanisms of transcription: biochemistry/enzymology

MB5-02 Transcription-coupled repair: genetics/biochemistry

MB5-03 Promoter/enhancer analysis

MB5-04 Growth factor-inducible gene expression

MB5-05 Oncogenic transcription factor functions: leukemias/lymphomas/solid tumors

MB5-06 Transgenic models of promoter and transcription factor function

MB5-07 Protein-protein interaction in transcription factor function

MB5-08 Protein phosphorylation and control of gene expression

MB5-09 Transcriptional control of cell differentiation

MB5-10 Transcriptional programs and organogenesis

MB5-11 Chromatin structure/higher order regulation

MB5-12 Gene position effects and genomic sensing

MB5-13 Antisense control of gene expression

MB5-14 Posttranscriptional and translational control

MB5-15 New methods for multiplex analysis of gene expression

MB5-16 Structural biology of transcription factors

MB5-17 Other

MB6 Cell Cycle

MB6-01 Growth factor control of cell cycle

MB6-02 Genetic control of cell cycle progression

MB6-03 Cell cycle genetic alterations

MB6-04 Cell cycle checkpoints

MB6-05 Checkpoints: genetics and biochemistry

MB6-06 Cyclins and CDKs

MB6-07 CDK inhibitors

MB6-08 Phosphorylation and proteolysis in cell cycle control

MB6-09 Negative regulation of cell cycle

MB6-10 Viral oncoproteins and cell cycle regulation

MB6-11 Other
MB7 Viral Oncogenesis
MB7-01 Viruses and susceptibility/promotion
MB7-02 Human tumor viruses: etiology/epidemiology
MB7-03 Molecular biology and genetics of viruses
MB7-04 DNA tumor viruses
MB7-05 Viral transformation and carcinogenesis
MB7-06 Viral gene regulation
MB7-07 Viral oncogenes
MB7-08 Host-virus interactions
MB7-09 Other

CG CARCINOGENESIS
CG1 Biomarkers, Premalignant Lesions, Risk Assessment
CG1-01 Biomarkers of exposure to carcinogens
CG1-02 Environmental carcinogenesis
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 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 Promotoplastic lesions
EP1-10 Methodology, computer modeling, and biostatistics
EP1-11 Other

EP2 Genetic and Molecular 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
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 markers 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 of 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 Clinical Trials
CL1-01 Phase I Clinical Trials

CL2 Phase II-III Clinical Trials
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 Other

CL3 Organ-Site Specific Studies: Preclinical Research (Tumor Biology/Translational 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 Secondary cancers
CL3-14 Animal/transgenic models of molecular progression
CL3-15 Other

CL4 Clinical Pharmacology
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 Modality-based Clinical Research
CL5-01 Cell-based therapeutics
CL5-02 Differentiation therapy
CL5-03 Gene therapy clinical trials
CL5-04 Hematopoietic colony stimulating factors
CL5-05 Mechanism-based combination chemotherapy
CL5-06 Multimodality therapy
CL5-07 Adjuvant chemotherapy
CL5-08 Clinical reversal of multidrug resistance
CL5-09 Transplantation: bone marrow and other stem cell approaches
CL5-10 Alternative medicine research
CL5-11 Other

CL6 Molecular Biology/Oncology in the Clinic
CL6-01 Advances in genome scanning relevant to the clinic
CL6-02 Comparative genomic hybridization from the bench to the clinic
CL6-03 Cytogenetics and clinical molecular genetics
CL6-04 Minimal residual disease
CL6-05 Molecular markers of metastasis and progression
CL6-06 Oncogene-based molecular diagnosis and prognosis
CL6-07 Tumor staging: correlation of clinical and molecular markers
CL6-08 Other

CL7 Supportive Care and Psychosocial Aspects of Cancer
CL7-01 Cancer information access and dissemination
CL7-02 Pain research
CL7-03 Palliative care
CL7-04 Psychosocial aspects of cancer
CL7-05 Other

EN ENDOCRINOLOGY/ PRECLINICAL 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
| EN1-10 | Preclinical studies of endocrine-related cancers |
| EN1-11 | Protein-protein and co-factor interactions |
| EN1-12 | Receptor crosstalk and signaling |
| EN1-13 | Retinooids and receptors |
| EN1-14 | Steroid hormones and receptors |
| EN1-15 | Thyroid hormones and receptors |
| EN1-16 | Other |
| EN2 | Clinical Endocrinology |
| EN2-01 | Hormonal carcinogenesis |
| EN2-02 | Retinooid-based cancer therapy |
| EN2-03 | Hormone receptors and diagnosis/prognosis |
| EN2-04 | Hormone synthesis, metabolism, and inhibitors |
| EN2-05 | Neuroendocrine and other endocrine factors |
| EN2-06 | Endocrine-related cancers: organ sites |
| EN2-07 | Breast |
| EN2-08 | Gynecological |
| EN2-09 | Prostate/germinal tumors |
| EN2-10 | Other |
| EN2-11 | Other |
| IM | IMMUNOLOGY/PRECLINICAL AND CLINICAL |
| IM1 | Tumor Immunobiology: Experimental and Preclinical |
| IM1-01 | Animal/Transgenic models for tumor immunology |
| IM1-02 | Antigenic modulation |
| IM1-03 | Cancer vaccines |
| IM1-04 | Oncogene-directed immunotherapy/vaccines |
| IM1-05 | Tumor suppressor-directed immunotherapy/vaccines |
| IM1-06 | Viral immunology and vaccines |
| IM1-07 | Immunodeficiency/Immunosuppression (including AIDS and AIDS-related malignancies) |
| IM1-08 | Immunomodulation |
| IM1-09 | Integrins and cell adhesion molecules |
| IM1-10 | Lymphokines, cytokines, and growth factors |
| IM1-11 | Non-specific effector mechanisms |
| IM1-12 | Specific immunomechanisms |
| IM1-13 | Tumor antigens |
| IM1-14 | Other |
| IM2 | Clinical Immunology: Biological Therapy |
| IM2-01 | Antibodies/immunoconjugates |
| IM2-02 | Cancer vaccines |
| IM2-03 | Cellular immunotherapy |
| IM2-04 | Lymphokines and growth factors |
| IM2-05 | Immunodiagnosis |
| IM2-06 | Immunotherapy of human cancer |
| IM2-07 | Transplantation: control of rejection |
| IM2-08 | Other |
| PT | PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS |
| PT1 | Drug Discovery: Design, Screening, and Delivery |
| PT1-01 | Human xenograft models for drug discovery |
| PT1-02 | Biochemical modulators of the therapeutic index |
| PT1-03 | Combination chemotherapy |
| PT1-04 | Differentiation therapy |
| PT1-05 | Drug design: rational/empirical |
| PT1-06 | Combinatorial chemistry-based drug design |
| PT1-07 | Drug screening |
| PT1-08 | Novel drug delivery systems |
| PT1-09 | Other |
| PT2 | Mechanisms of Drug Action |
| PT2-01 | Cell cycle mechanisms for anticancer drug action |
| PT2-02 | Cellular responses to anticancer drugs |
| PT2-03 | Drug-mediated stimulation of cell death pathways |
| PT2-04 | Intracellular targets |
| PT2-05 | Modulation of DNA repair |
| PT2-06 | Oncogenic transcription factors as targets |
| PT2-07 | Secondary targets |
| PT2-08 | Other |
| PT3 | Drug Resistance I - Multidrug Resistance |
| PT3-01 | Biochemistry of membrane metabolism and transport |
| PT3-02 | Drug transport and metabolism |
| PT3-03 | Non-p-glycoprotein multidrug resistance |
| PT3-04 | P-glycoprotein structure and function |
| PT3-05 | Reversal of multidrug resistance (preclinical) |
| PT3-06 | Other |
| PT4 | Drug Resistance II |
| PT4-01 | Drug transport and metabolism |
| PT4-02 | Glutathione metabolism |
| PT4-03 | Natural products, synthetic drugs, and nucleotide analogs |
| PT4-04 | Novel mechanisms |
| PT4-05 | Regulation of gene expression in drug resistance |
| PT4-06 | Reversal of drug resistance |
| PT4-07 | Other |
| PT5 | Pharmacology and Preclinical Toxicology |
| PT5-01 | Cellular pharmacology |
| PT5-02 | Pharmacogenetics |
| PT5-03 | Pharmacokinetics and pharmacodynamics |
| PT5-04 | Preclinical toxicology |
| PT5-05 | Other |
| PT6 | Therapeutic Agents I (Small Molecule Approaches) |
| PT6-01 | Alkylation agents |
| PT6-02 | Antifolates |
| PT6-03 | Chemopreventive therapeutic agents |
| PT6-04 | Ether lipids |
| PT6-05 | Farnesyl transferase inhibitors |
| PT6-06 | Novel antitumor agents |
| PT6-07 | Oncogene-based therapeutic: small molecules |
| PT6-08 | Platinum complexes |
| PT6-09 | Tyrosine kinase and phosphatase inhibitors |
| PT6-10 | Other |
| PT7 | Therapeutic Agents II (Biological Approaches) |
| PT7-01 | Antireceptor |
| PT7-02 | Antisense oligonucleotides |
| PT7-03 | Antiviral therapy |
| PT7-04 | Apoptotic therapeutic manipulation |
| PT7-05 | Growth factor receptors and other surface antigens as targets for therapy |
| PT7-06 | Oncogenes, tumor suppressor genes, and gene products as targets for therapy |
| PT7-07 | Protein kinases and phosphatases as targets for therapy |
| PT7-08 | Other |
| PT8 | Experimental Gene Therapy |
| PT8-01 | Vector systems and targeting strategies |
| PT8-02 | Cell-type targeted vectors |
| PT8-03 | TK-based suicide gene therapy |
| PT8-04 | Cell-type specific expression regulation of suicide genes |
| PT8-05 | Antisense/ribosyme decoys |
| PT8-06 | Delivery systems: nonbiological, e.g. liposomes |
| PT8-07 | Hematopoietic progenitor cell targeting |
| PT8-08 | Other |
| PT9 | Topoisomerase, Other DNA-reactive Agents, Tubulin Agents |
| PT9-01 | DNA-reactive agents |
| PT9-02 | Topoisomerase |
| PT9-03 | Tubulin agents |
| PT9-04 | Other |
| RR | RADIOBIOLOGY/RADIATION ONCOLOGY |
| RR1 | Experimental Radiobiology |
| RR1-01 | ATM: structure-function |
| RR1-02 | ATM: genomic aspects and mutations |
| RR1-03 | Cell-cycle, differentiation, and apoptosis in radiation responses |
| RR1-04 | Cytogenetic responses to radiation |
| RR1-05 | DNA damage, mutagenesis, and repair |
| RR1-06 | Experimental radiotherapeutics |
| RR1-07 | Genetic and epigenetic control of radiosensitivity |
| RR1-08 | Hyperthermia |
| RR1-09 | Membrane targets for radiation |
| RR1-10 | Molecular mechanisms/radiation-induced gene expression |
| RR1-11 | Photobiology |
| RR1-12 | Photodynamic therapy |
| RR1-13 | Predictive assays for radiation sensitivity |
| RR1-14 | Oncogenes and tumor suppressor genes in radiation responses |
| RR1-15 | Radiation-induced biochemical alterations: conformation and function |
| RR1-16 | Radiation-induced transformation and carcinogenesis |
| RR1-17 | Radiation resistance |
| RR1-18 | Radiolabelled antibodies in diagnosis and localization |
| RR1-19 | Radioprotectors and radiosensitizers |
| RR1-20 | Tumor oxygenation and modification |
| RR1-21 | Other |
| RR2 | Radiation Oncology, Preclinical and Clinical |
| RR2-01 | Clinical radiotherapeutic studies |
| RR2-02 | Combination therapies |
| RR2-03 | Drug-radiation interactions |
| RR2-04 | Modification of radiation sensitivity and injury |
| RR2-05 | Radiation-induced late effects - second cancers |
| RR2-06 | Radiation resistance |
| RR2-07 | Radiolabelled antibodies in diagnosis and localization |
| RR2-08 | Radioprotectors and radiosensitizers |
| RR2-09 | Other |
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IF YOU ANSWERED YES TO ANY OF THESE QUESTIONS, PLEASE DESCRIBE THE NATURE OF THE INTEREST AND/OR RELATIONSHIP, IDENTIFYING THE RELEVANT COMMERCIAL ENTITY (attach additional sheets as required).

___________________________________________________________________________

___________________________________________________________________________

I represent that the information reported above is accurate. I understand that, where appropriate, this information may be disclosed publicly. I further understand that the AACR reserves the right to replace me in a scientific or educational program, decline to publish my work, or otherwise limit my participation in the annual meeting if it believes that a significant conflict of interest exists. Finally, I understand that failure to complete this Disclosure Form will disqualify me from making a presentation at the annual meeting.

Submitted by: ____________________________ Date: ____________________________

Signature of Presenter
Analysis of nucleotide-binding site mutants indicates a non-efflux component in P-glycoprotein-mediated drug resistance. Schott, B., Morse, B.S., Polonskaia, M., Stein, W., Mechetner, E.B., Chen, T.L., Chisholm, R.L., and Roninson, I.B. University of Illinois at Chicago, Chicago, IL 60607; Hebrew University, Jerusalem, Israel 91904; Oncotech, Irvine, CA 92714; Northwestern University, Chicago, IL 60611.

P-glycoprotein (Pgp), a multidrug resistance efflux pump, contains two nucleotide-binding sites (NBS) responsible for its ATPase activity. We have introduced K→M substitutions at positions 433 and/or 1076 of the two NBS of the human MDR1 Pgp. Analysis of LMTk− transfectants expressing different Pgp mutants showed that simultaneous mutation of both NBS results in complete loss of the ability to confer drug resistance. Pgps carrying mutations in either one of the two ABC retained about 15% efflux ability to confer resistance to vinblastine and vincristine, but not to other Pgp-transported drugs. Single-mutant Pgps showed decreased binding of a photoactive ATP analog and complete or nearly complete loss of ATPase activity. Wild-type and single-mutant transfectants that were equally resistant to vinblastine drastically differed in their vinblastine transport. Vinblastine accumulation and efflux in single-mutant transfectants was similar to control cells rather than to wild-type Pgp transfectants. Confocal microscopy analysis of intracellular distribution of a fluorescent vinblastine derivative revealed plasma membrane staining which was specific to single-mutant transfectants. Vinblastine resistance and membrane staining in the transfectants were similarly affected by anti-Pgp monoclonal antibody UIC2. These results suggest that plasma membrane sequestration is a component of Pgp-mediated drug resistance.

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<tr>
<th>Category and Subclassification</th>
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<td>1. Category and Subclassification (see Pages 8-10): Type the five-character code in the blocks provided, for example, B1L1T1F1</td>
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</tr>
<tr>
<td>2. Abstract is SPONSORED by:</td>
<td>2309 Member No.</td>
</tr>
<tr>
<td>Igor Boris Roninson</td>
<td>Name (Please Print)</td>
</tr>
<tr>
<td>University of Illinois at Chicago</td>
<td>Address</td>
</tr>
<tr>
<td>900 South Ashland</td>
<td>City, State</td>
</tr>
<tr>
<td>Chicago, Illinois</td>
<td>Zip/Postal Code USA</td>
</tr>
<tr>
<td>60607</td>
<td>Telephone No. 312-413-8358 FAX No. <a href="mailto:roninson@uic.edu">roninson@uic.edu</a></td>
</tr>
<tr>
<td>3. As the SPONSOR of this abstract and on behalf of all the authors, I hereby indicate my support for the data contained herein.</td>
<td>Igor Boris Roninson Signature of SPONSOR</td>
</tr>
<tr>
<td>4. (Complete only if SPONSORED is an Associate Member) I, the undersigned Active or Corresponding Member in good standing, Emeritus, or Honorary Member, endorse the content of this abstract, for which the above-named Associate Member is sponsor and presenter. (See regulations applying to Associate Members on Page 3.)</td>
<td>Name (Please Print)</td>
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<tr>
<td>Signature</td>
<td>Member No.</td>
</tr>
<tr>
<td>5. Eligibility for Young Investigator Awards (American and International)</td>
<td></td>
</tr>
<tr>
<td>A. The PRESENTER of this abstract is a medical or graduate student, physician in training, or postdoctoral fellow.</td>
<td></td>
</tr>
<tr>
<td>B. The PRESENTER meets the criteria in Box A above and is also a minority scientist as defined by the National Cancer Institute (see Page 5).</td>
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Type abstract within black lines. See sample abstract.
Dear PRESENTER:

We acknowledge receipt of the abstract of your paper entitled (Presenter - Please complete):


by

which has been submitted for consideration for presentation at the 1998 Annual Meeting of the American Association for Cancer Research. You will be notified of the action of the Program Committee in early January 1998.

Sincerely yours,

American Association for Cancer Research
ABSTRACT FORM
AACR Annual Meeting
March 28-April 1, 1998
New Orleans, LA

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Type abstract within black lines. See sample abstract.

2. Abstract is SPONSORED by: _______________________________ Member No. (See Directory of Members for Member No.)
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Signature of Member

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6. Abstract is to be PRESENTED by: _______________________________ Member No. (If an AACR Member.)

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7. As the PRESENTER and as an author of this abstract and on behalf of all the authors, I hereby give exclusive permission to the American Association for Cancer Research, Inc. to record my presentation at the 1998 Annual Meeting and to collect all revenue from subsequent audiocassette sales. I also acknowledge that I am enclosing a completed, signed original and 1 copy of the Copyright Transfer/Conflict of Interest Disclosure Form.

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ABSTRACT FORM
AACR Annual Meeting
March 28-April 1, 1998
New Orleans, LA

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1. Category and Subclassification
   (see Pages 8-10): Type the five-character code in the blocks provided, for example,

   

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   (See Directory of Members for Member No.)

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3. As the SPONSOR of this abstract and on behalf of all the authors, I hereby indicate my support for the data contained herein.

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4. (Complete only if SPONSOR is an Associate Member) I, the undersigned Active or Corresponding Member in good standing, Emeritus, or Honorary Member, endorse the content of this abstract, for which the above-named Associate Member is sponsor and presenter. (See regulations applying to Associate Members on Page 3.)

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   (If an AACR Member)

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   □ I authorize you to charge my credit card for the abstract submission fee.  
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   Signature

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AMERICAN ASSOCIATION FOR CANCER RESEARCH

Guidelines for Application for Active and Corresponding Membership

BENEFITS OF MEMBERSHIP

The American Association for Cancer Research (AACR), a scientific society of over 13,000 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, focussed 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 13,000 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. Visiting scientists from outside the Americas who intend to return to their countries of origin by the anticipated time of election should apply for corresponding membership. All other visiting scientists should apply for active membership and transfer to corresponding status upon leaving the Americas.

Graduate and medical students, postdoctoral fellows, and physicians in training who do not yet meet the above qualifications for active or corresponding membership should apply for associate membership. Forms for associate membership are available from the AACR Office.

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:

<table>
<thead>
<tr>
<th>Receipt of Application</th>
<th>Notification of Candidate</th>
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<tr>
<td>in AACR Office</td>
<td>March</td>
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<tr>
<td>January 1</td>
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<td>May 1</td>
<td>July</td>
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<tr>
<td>September 1</td>
<td>November</td>
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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 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 secondor who is an active, corresponding, emeritus, or honorary member of the AACR (at least one copy must be a signed, original letter). --OR-- The secondor 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: 215/440-9412
E-mail: aacc@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 1998 annual dues for active members are $175, $100 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 ($90 in 1998) 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
AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC.
Public Ledger Building • Suite 826 • 150 S. Independence Mall West • Philadelphia, PA 19106-3483

Application for Active or Corresponding Membership

NAME OF CANDIDATE: ___________________________ DATE OF BIRTH: ___________________________

PRESENT POSITION/TITLE: ___________________________

INSTITUTIONAL AFFILIATION: ___________________________

INSTITUTIONAL ADDRESS: ___________________________

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

TELEPHONE NUMBER: ___________________________
(FAX NUMBER: ___________________________
E-MAIL ADDRESS: ___________________________

PRIMARY FIELD OF RESEARCH (Please check only one):

____ Biochemistry and Biophysics
____ Cellular Biology and Genetics
____ Epidemiology
____ Preclinical Pharmacology and Experimental Therapeutics
____ Biostatistics
____ Clinical Investigations
____ Immunology
____ Virology
____ Carcinogenesis
____ Endocrinology
____ Molecular Biology and Genetics
____ Other: ___________________________

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.

(This form may be reproduced.)
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 assigns 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. an advance copy of the scientific Program and (if one has been purchased by the associate member) the Proceedings of the American Association for Cancer Research that contains over 4,000 abstracts of proffered papers presented at the annual meeting;

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

5. 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;

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

7. preferred access to the AACR Employment Register;

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

9. substantially reduced registration rates at special conferences;

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

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

12. 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 1997 are $45 for associate members residing in the Americas and $55 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 826
150 S. Independence Mall West
Philadelphia, PA 19106-3483
Phone: 215/440-9300
Fax: 215/440-9412
Email: aacr@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 1997 have been set at $45 per year for residents of the Americas and $55 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 October 1997 for the forthcoming annual meeting must have paid dues for 1997. 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 associate 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 1997 may retain associate membership until December 31, 2001. 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:
LAST NAME: ___________________________ FIRST NAME: ___________________________ M.I.: _______

INSTITUTIONAL ADDRESS: ___________________________ ___________________________

(CITY) ___________________________ (STATE/PROVINCE) ___________________________ (COUNTRY) ___________________________ (POSTAL CODE) ___________________________

TELEPHONE NUMBER: (If outside the United States list country and city codes.) ___________________________

FAX NUMBER: ___________________________

E-MAIL ADDRESS: ___________________________

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

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 1997 dues are $45 for Associate Members residing in the Americas and $55 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.

20

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American Association for Cancer Research
88th Annual Meeting
April 12 - 16, 1997 • San Diego, CA

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1 - 5 cassettes $11.50
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12 - 24 cassettes 10% discount
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49 or more 20% discount

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Prices are listed before program titles.

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- CAN 701 (2 cassettes, $23) Educational Session 2: Cancer Research in the Post-Genome Era
- CAN 702 (3 cassettes, $34.50) Methods Workshop 1: Bioinformatics in Cancer Research
- CAN 703 (2 cassettes, $23) Methods Workshop 2: Differential Display in Gene Discovery and Functional Analysis
- CAN 704 (2 cassettes, $23) Methods Workshop 3: Protein-Protein Interactions
- CAN 705 (2 cassettes, $23) Educational Session 4: Nonviral Delivery Systems for Gene Therapy
- CAN 706 (2 cassettes, $23) Educational Session 5: The Biology of Cancer Metastasis
- CAN 707 (2 cassettes, $23) Educational Session 1: Genes and Biochemistry of Programmed Cell Death
- CAN 708 (2 cassettes, $23) Educational Session 3: Telomerase, Cellular Senescence, and Cancer
- CAN 709 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Molecular Approaches to the Management of Ovarian Cancer (Robert C. Bast Jr)
- CAN 710 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Transcriptional Models and Drug Discovery (William G. Kaelin Jr)
- CAN 711 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Research Issues and Special Populations (Otis W. Brawley)
- CAN 712 (1 cassette, $11.50) Meet the Expert Sunrise Session: Cancer Vaccines (David P. Carbone)
- CAN 713 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Chemoprevention in Transgenic Animals (James M. Phang)
- CAN 714 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Advances in Stem Cell Transplantation (Elizabeth J. Shipp)
- CAN 716 (2 cassettes, $23) Plenary Session: Genetic Predisposition to Cancer
- CAN 717 (1 cassette, $11.50) Presentation by the Director of the National Cancer Institute (Richard D. Klausner)
- CAN 718 (1 cassette, $11.50) Thirty-Second G.H.A. Clowes Memorial Award Lecture: “bcl-2 Gene Family and the Regulation of Cell Death” (Stanley J. Kornmeyer)
- CAN 719 (3 cassettes, $34.50) Minisymposium Pharmacology/Therapeutics 1: Molecular Mechanisms Controlling Sensitivity to Antifolates
- CAN 720 (3 cassettes, $34.50) Minisymposium Radiobiology/Radiation Oncology 2: Genetic Determinants of Cellular Response to Radiation
- CAN 721 (2 cassettes, $23) Minisymposium Biology 6: Proteins: Invasion and Regulation
- CAN 722 (2 cassettes, $23) Minisymposium Epidemiology/Prevention 2: Genetic Susceptibility
- CAN 723 (2 cassettes, $23) Symposium 1: Genes, Cell Proliferation, and Antineoplastic Drugs
- CAN 724 (2 cassettes, $23) Symposium 2: Acute Myeloid Leukemia
- CAN 725 (2 cassettes, $23) Symposium 3: New Techniques for Molecular Diagnostics
- CAN 726 (2 cassettes, $23) Symposium 4: Behavioral and Psychosocial Methods in Cancer Epidemiology and Control
- CAN 727 (1 cassette, $11.50) Second Joseph H. Burchenal AACR Clinical Research Award: “Antigen Receptors as Targets for Immunotherapy of Lymphomas” (Ronald Levy)
- CAN 728 (2 cassettes, $23) Minority Issues Committee Carers Symposium
- CAN 729 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Advances in the Management of AIDS-related Malignancies (Ellen G. Fegan)
- CAN 730 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: How to Get Your New Idea into the Clinic — Experiences with Antiangiogenesis Agents (Elise C. Kohan)

- CAN 731 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: The Biological Basis of the New International Classification of Lymphomas (Elaine S. Jaffe)
- CAN 732 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: FHIT Gene Aberrations in Cancer (Ray Hudson)
- CAN 733 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Advances in Oncological Imaging (Michael J. Welch)
- CAN 734 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Cancer Survivorship Research (Anna T. Meadows)
- CAN 735 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: p53 and Genetic Instability (Geoffrey M. Wahl)
- CAN 736 (2 cassettes, $23) Symposium 5: Demystifying the Role of Cytokines in Tumor Immunobiology: Status and Future Utility
- CAN 737 (2 cassettes, $23) Symposium 6: Epidemiology and Pathogenesis of Secondary Cancers
- CAN 738 (2 cassettes, $23) Symposium 7: Animal Models for Functional Analysis of Tumor Suppressor Genes
- CAN 739 (3 cassettes, $34.50) Minisymposium Pharmacology/Therapeutics 17: Molecular Mechanisms of Drug Resistance
- CAN 740 (2 cassettes, $23) Minisymposium Molecular Biology/Biochemistry 11: Novel Tumor Suppressor Genes and New Interactions of Known Tumor Suppressor Genes
- CAN 741 (2 cassettes, $23) Minisymposium Clinical Investigations 4: Clinical Relevance of p53 Mutations
- CAN 742 (3 cassettes, $34.50) Minisymposium Carcinogenesis 6: Gene Regulation in Tumor Initiation, Promotion, and Progression
- CAN 743 (1 cassette, $11.50) Controversy Session 1: What is the Role of Prophylactic Surgery in Breast and Ovarian Cancer?
- CAN 744 (1 cassette, $11.50) • Presentation of the Fifth Gertrude Elion Cancer Research Award • Presidential Address: “Cancer Genetics is a Little Like Insanity; We Have Gotten It from Our Kids! A Perspective on Past and Future Lessons from Genetic Studies of Childhood Cancer (Louise C. Strong)
- CAN 745 (1 cassette, $11.50) Sixth American Cancer Society Award Lecture on Cancer Epidemiology and Prevention: “Etiology, Natural History, Management, and Molecular Genetics of HNFFC (Lynch Syndromes): Genetic Counseling Implications” (Henry T. Lynch)
- CAN 746 (2 cassettes, $23) Minisymposium Pharmacology/Therapeutics 23: Human Genetic Therapy: Clinical Trials and New Approaches
- CAN 747 (2 cassettes, $23) Minisymposium Biology 14: Regulation of Apoptosis
- CAN 748 (3 cassettes, $34.50) Minisymposium Immunology/Biological Therapy 7: Tumor Antigen Presentation, Costimulation, Normal and Abnormal T-Cell Activation
- CAN 749 (3 cassettes, $34.50) Minisymposium Molecular Biology/ Biochemistry 15: Regulation of Gene Expression in Signal Transduction
- CAN 750 (2 cassettes, $23) Symposium 8: Prostate Cancer
- CAN 751 (2 cassettes, $23) Symposium 9: Cell Cycle Regulation
- CAN 752 (2 cassettes, $23) Symposium 10: Gene Interactions with the Environment/Carcinogenesis
- CAN 753 (1 cassette, $11.50) “NCI Listens”: A Session Organized by the National Cancer Institute’s Board of Scientific Advisors
- CAN 754 (1 cassette, $11.50) Annual Business Meeting of the American Association for Cancer Research, Inc.
- CAN 755 (1 cassette, $11.50) NCI Training Branch Workshop
- CAN 756 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Approaches to Using Genes as Cancer Therapies (Jack A. Rath)
- CAN 757 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Mechanisms Regulating p53 Function (Guillermo Lascano)
- CAN 758 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Farnesyl Transferase Inhibitors: Attacking the Molecular Basis of Cell Transformation (Allen I. Offit)
- CAN 759 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Helicobacter pylori as a Carcinogen (Pelayo Correas)
- CAN 760 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: New Approaches to Overcoming Multidrug Resistance (Alan F. List)
- CAN 761 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Human Cancer Genetics Travels to Cyberspace (Kenneth H. Buscemi)
- CAN 762 (1 cassette, $11.50) Meet-the-Expert Sunrise Session: DNA Methylation in Cancer (Stephen B. Baylin)
The following programs will be available on video cassette (Allow 4 - 6 weeks for delivery.)

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- Presentation of the Fifth Gertrude Elion Cancer Research Award
- Presidential Address: "Cancer Genes is a Little Like Insanity; We Have Gotten it from Our Kids! A Perspective on Past and Future Lessons from Genetic Studies of Childhood Cancer (Louise C. Strong)

**CAN 745V** (1 cass., $39)
- Sixth American Cancer Society Award Lecture on Cancer Epidemiology and Prevention: "Etiology, Natural History, Management, and Molecular Genetics of HNPCC (Lynch Syndromes): Genetic Counseling Implications" (Henry T. Lynch)

**CAN 772V** (1 cass., $39)
- Twenty-First Richard and Hinda Rosenthal Foundation Award Lecture: "There are no Bad Anticancer Agents - Only Bad Clinical Trial Designs" (Daniel D. Von Hoff)

**CAN 772V** (1 cass., $39)
- Sixteenth Bruce F. Cain Memorial Award Lecture: "DNA Topoisomerases in Cell Proliferation and Cell Death (Leroy T. Lynch)

**CAN 782V** (1 cass., $39)
- Sixteenth Cornelius P. Rhoads Memorial Award Lecture: "Tumor Suppressor Gene Mutations in Mice (Tyler Jacks)

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Victoria Conference Centre, Victoria, BC, Canada

OCTOBER 17-21, 1997
Transcriptional Control of Proliferation, Differentiation, and Development
Chairpersons: Robert N. Eisenman, Seattle, WA; Elaine V. Fuchs, Chicago, IL
The Sagamore Resort, Bolton Landing (Lake George), NY

DECEMBER 12-16, 1997
DNA Methylation, Imprinting, and the Epigenetics of Cancer
Chairpersons: Peter A. Jones, Los Angeles, CA; Stephen B. Baylin, Baltimore, MD; Timothy H. Bestor, New York, NY
El Conquistador Resort and Country Club, Las Croabas, PR

JANUARY 24-28, 1998
Angiogenesis and Cancer
Chairpersons: Judah Folkman, Boston, MA; Michael Klagsbrun, Boston, MA
Hyatt Orlando, Orlando, FL

FEBRUARY 16-21, 1998
Innovative Molecular Biology Approaches to the Prevention, Diagnosis, and Therapy of Cancer
Joint Meeting with the Japanese Cancer Association
Chairpersons: Edward Bresnick, Worcester, MA; Kaoru Abe, Tokyo, Japan
Maui Marriott Resort, Maui, HI

MARCH 28-APRIL 1, 1998
89th Annual Meeting
Chairperson: Frank J. Rauscher III, Philadelphia, PA
Morial Convention Center, New Orleans, LA
Abstract Deadline: October 28, 1997

JUNE 14-18, 1998
Proteases and Protease Inhibitors in Cancer
Co-Sponsored by the Danish Society for Pathology
Chairpersons: Keld Dano, Copenhagen, Denmark; Henri Rochefort, Montpellier, France; Lynn M. Matrisian, Nashville, TN
Nyborg Strand Conference Center, Fyn, Denmark

AACR members will receive brochures on the above conferences as soon as they are available. Nonmembers should call or write:
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Philadelphia, PA 19106-3483
215-440-9300 • 215-440-9313 (FAX)
E-Mail: aacr@aacr.org
### SATURDAY, MARCH 28, 1998

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m.-1:30 p.m.</td>
<td>Associate Member Council Grant Writing Session</td>
</tr>
<tr>
<td>9:00 a.m.-8:00 p.m.</td>
<td>On-site Registration</td>
</tr>
<tr>
<td>10:00 a.m.-12:00 noon</td>
<td>Public Session</td>
</tr>
<tr>
<td>12:00 noon-6:30 p.m.</td>
<td>Educational Sessions</td>
</tr>
<tr>
<td>2:00-6:00 p.m.</td>
<td>Methods Workshops</td>
</tr>
<tr>
<td>6:30-8:00 p.m.</td>
<td>WICR Guest Lecture and Reception</td>
</tr>
<tr>
<td>8:00-10:00 p.m.</td>
<td>Opening Mixer</td>
</tr>
</tbody>
</table>

### SUNDAY, MARCH 29, 1998

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.-4:00 p.m.</td>
<td>On-site Registration</td>
</tr>
<tr>
<td>7:00-8:00 a.m.</td>
<td>Meet-the-Expert Sunrise Sessions</td>
</tr>
<tr>
<td>8:00 a.m.-12:15 p.m.</td>
<td>Opening Events:</td>
</tr>
<tr>
<td>8:00-9:00 a.m.</td>
<td>Presidential Address</td>
</tr>
<tr>
<td>9:00 a.m.-12:00 noon</td>
<td>Plenary Session</td>
</tr>
<tr>
<td>12:00 noon-12:15 p.m.</td>
<td>Elion Award Ceremony</td>
</tr>
<tr>
<td>8:00 a.m.-12:00 noon</td>
<td>Poster Sessions</td>
</tr>
<tr>
<td>12:00 noon-5:00 p.m.</td>
<td>Exhibit Show Kickoff</td>
</tr>
<tr>
<td>12:15 p.m.-1:15 p.m.</td>
<td>Clowes Award Lecture</td>
</tr>
<tr>
<td>1:15-5:15 p.m.</td>
<td>Poster and Poster Discussion Sessions</td>
</tr>
<tr>
<td>1:30-5:00 p.m.</td>
<td>Minisymposia</td>
</tr>
<tr>
<td>2:15-4:45 p.m.</td>
<td>Symposia</td>
</tr>
<tr>
<td>5:30-6:30 p.m.</td>
<td>AACR-Pezcoller Foundation Award Lecture</td>
</tr>
<tr>
<td>6:30-9:00 p.m.</td>
<td>Minority Issues Committee Careers in Cancer Research Symposium</td>
</tr>
<tr>
<td>8:00-10:30 p.m.</td>
<td>Annual Reception for All Registrants</td>
</tr>
</tbody>
</table>

### MONDAY, MARCH 30, 1998

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.-4:00 p.m.</td>
<td>On-site Registration</td>
</tr>
<tr>
<td>7:00-8:00 a.m.</td>
<td>Meet-the-Expert Sunrise Sessions</td>
</tr>
<tr>
<td>8:00-10:30 a.m.</td>
<td>Symposia</td>
</tr>
<tr>
<td>8:00 a.m.-12:00 noon</td>
<td>Poster and Poster Discussion Sessions</td>
</tr>
<tr>
<td>8:15-11:45 a.m.</td>
<td>Minisymposia</td>
</tr>
<tr>
<td>10:00 a.m.-4:00 p.m.</td>
<td>Exhibit Show</td>
</tr>
<tr>
<td>10:45 a.m.-12:00 noon</td>
<td>Controversy Sessions</td>
</tr>
<tr>
<td>12:00 noon-1:00 p.m.</td>
<td>AACR-Burchenal Award Lecture</td>
</tr>
<tr>
<td>1:00-2:15 p.m.</td>
<td>Controversy Session</td>
</tr>
<tr>
<td>1:00-5:00 p.m.</td>
<td>Poster and Poster Discussion Sessions</td>
</tr>
<tr>
<td>1:15-2:15 p.m.</td>
<td>AACR-American Cancer Society Award Lecture</td>
</tr>
<tr>
<td>1:30-5:00 p.m.</td>
<td>Minisymposia</td>
</tr>
<tr>
<td>2:30-5:00 p.m.</td>
<td>Symposia</td>
</tr>
<tr>
<td>5:15-6:30 p.m.</td>
<td>Annual Business Meeting of Members</td>
</tr>
</tbody>
</table>

### TUESDAY, MARCH 31, 1998

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>7:00 a.m.-4:00 p.m.</td>
<td>On-site Registration</td>
</tr>
<tr>
<td>7:00-8:00 a.m.</td>
<td>Meet-the-Expert Sunrise Sessions</td>
</tr>
<tr>
<td>8:00-10:30 a.m.</td>
<td>Symposia</td>
</tr>
<tr>
<td>8:00 a.m.-12:00 noon</td>
<td>Poster and Poster Discussion Sessions</td>
</tr>
<tr>
<td>8:15-11:45 a.m.</td>
<td>Minisymposia</td>
</tr>
<tr>
<td>10:00 a.m.-4:00 p.m.</td>
<td>Exhibit Show</td>
</tr>
<tr>
<td>10:45 a.m.-12:15 p.m.</td>
<td>Late-Breaking Research Session</td>
</tr>
<tr>
<td>12:15-1:15 p.m.</td>
<td>Rosenthal Foundation Award Lecture</td>
</tr>
<tr>
<td>1:15-5:15 p.m.</td>
<td>Poster and Poster Discussion Sessions</td>
</tr>
<tr>
<td>1:30-2:30 p.m.</td>
<td>Cain Award Lecture</td>
</tr>
<tr>
<td>1:30-5:00 p.m.</td>
<td>Minisymposia</td>
</tr>
<tr>
<td>2:45-3:45 p.m.</td>
<td>Rhoads Award Lecture</td>
</tr>
<tr>
<td>4:00-6:30 p.m.</td>
<td>Symposia</td>
</tr>
</tbody>
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### WEDNESDAY, APRIL 1, 1998

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m.-2:00 p.m.</td>
<td>On-site Registration</td>
</tr>
<tr>
<td>7:00-8:00 a.m.</td>
<td>Meet-the-Expert Sunrise Sessions</td>
</tr>
<tr>
<td>7:30 a.m.-11:30 noon</td>
<td>Poster Discussion Sessions</td>
</tr>
<tr>
<td>8:00-10:30 a.m.</td>
<td>Symposia</td>
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</tr>
<tr>
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<td>Poster Discussion Sessions</td>
</tr>
<tr>
<td>12:15-3:45 p.m.</td>
<td>Minisymposia</td>
</tr>
<tr>
<td>12:30-3:00 p.m.</td>
<td>Symposia</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td>Annual Meeting Ends</td>
</tr>
</tbody>
</table>
1998 PROGRAM COMMITTEE
Frank J. Rauscher III, Chairperson

CELL AND TUMOR BIOLOGY
Cell Growth Signaling Pathways:
Cell Biology Aspects
René St-Arnaud, Chairperson
Cell Death Signaling
John C. Reed and Douglas R. Green,
Co-Chairpersons
Tumor Progression, Invasion, and Metastasis
Meenhard Herlyn, Chairperson
Host-Tumor Interactions: Angiogenesis and
Microcirculation
Rakesh K. Jain, Chairperson

MOLECULAR BIOLOGY
Cancer Genetics I: New Loci and
Mechanisms of Genomic Alterations
Daniel A. Haber, Chairperson
Cancer Genetics II: Tumor Suppressor
Genes: Structure and Function
W. Marson Linehan, Chairperson
Cancer Genetics III: Human and Retroviral
Oncogenes: Structure and Function
E. Premkumar Reddy, Chairperson
Gene Expression and Epigenetic Regulation
Stephen B. Baylin, Chairperson
Gene Regulation and Translational
Control of the Cancer Phenotype
Alan Bernstein, Chairperson
Cell Cycle
Chairperson To Be Appointed
Viral Oncogenesis
Karl Münger, Chairperson

CARCINOGENESIS
Biomarkers, Premalignant Lesions, Risk
Assessment
Kenneth Olden, Chairperson
Molecular Carcinogenesis: Metabolism,
DNA Lesions, Mutagenesis, and Repair
Lawrence A. Loeb, Chairperson
Promotion and Progression
Saraswati Sukumar, Chairperson

EPIDEMIOLOGY
Analytical Epidemiology in Populations
Barbara S. Hulka, Chairperson
Genetic and Molecular Epidemiology
Barbara L. Weber and Fred F. Kadlubar,
Co-Chairpersons

PREVENTION
Preclinical Prevention Studies: Markers and
Mechanisms
William G. Nelson V, Chairperson
Clinical Prevention Studies
Scott M. Lippman, Chairperson

CLINICAL RESEARCH
Phase I Clinical Trials
Robert L. Capizzi, Chairperson
Phase II-III Clinical Trials
Eric K. Rowinsky, Chairperson
Organ-Site Specific Studies: Preclinical
Research (Tumor Biology/Translational
Research/Experimental Therapeutics)
John T. Isaacs, Chairperson
Clinical Pharmacology
Alex Matter, Chairperson
Modality-based Clinical Research
William N. Hait, Chairperson
Molecular Biology/Oncology in the Clinic
A. Thomas Look, Chairperson
Supportive Care and Psychosocial Aspects of
Cancer
William G. Nelson V, Chairperson

ENDOCRINOLOGY/ PRECLINICAL AND CLINICAL
Molecular and Preclinical Endocrinology:
Receptors and Signal Transduction
Lorraine J. Gudas, Chairperson
Clinical Endocrinology
Chairperson To Be Appointed

IMMUNOLOGY/PRECLINICAL AND CLINICAL
Tumor Immunobiology: Experimental and
Preclinical
Drew M. Pardoll and Giorgio Trinchieri,
Co-Chairpersons
Clinical Immunology: Biological Therapy
Roy S. Weiner, Chairperson

PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS
Drug Discovery: Design, Screening, and
Delivery
Steven Grant and Ivan D. Horak,
Co-Chairpersons
Mechanisms of Drug Action
Herbert M. Pinedo, Chairperson
Drug Resistance I - Multidrug Resistance
Wayne D. Klohs, Chairperson
Drug Resistance II
Susan B. Horwitz, Chairperson
Pharmacology and Preclinical Toxicology
John S. Lazo, Chairperson
Therapeutic Agents I (Small Molecule
Approaches)
O. Michael Colvin, Chairperson
Therapeutic Agents II (Biological Approaches)
Stanley T. Crooke, Chairperson
Experimental Gene Therapy
Jonathan W. Simons, Chairperson
Topoisomerase, Other DNA-reactive
Agents, Tubulin Agents
Yung-chi Cheng, Chairperson

RADIOBIOLOGY/RADIATION ONCOLOGY
Experimental Radiobiology
Michael B. Kastan, Chairperson
Radiation Oncology, Preclinical and Clinical
C. Norman Coleman, Chairperson
AACR MINORITY SCHOLAR AWARDS IN CANCER RESEARCH

Supported by a generous grant from the Comprehensive Minority Biomedical Program of the National Cancer Institute (NCI)

AACR Minority Scholar Awards in Cancer Research are offered to eligible minority scientists wishing to attend the Annual Meeting and Special Conferences of the American Association for Cancer Research (AACR). The awards are supported by a generous grant from the Comprehensive Minority Biomedical Program of the National Cancer Institute (NCI). Those eligible for these awards are graduate and medical students, physicians-in-training, and postdoctoral students from minority groups considered underrepresented in cancer research by the NCI, i.e., African Americans, Alaskan Natives, Hispanic Americans, Native Americans, and Native Pacific Islanders.

The 89th AACR Annual Meeting will take place March 28 - April 1, 1998, in New Orleans, LA. This year's annual meeting will attract approximately 7,500 scientists from around the world, will provide the latest findings in the most rapidly developing areas of basic, clinical, and translational cancer research, and will feature major presentations from prominent scientists who are making important advances in the field. The deadline for receipt of applications for Minority Scholar Awards for the 89th AACR Annual Meeting is December 1, 1997.

Applications for Special Conference awards are due approximately two months before the date of the meeting. The AACR special conferences on focused topics in cancer research have gained wide recognition as unique opportunities for in-depth discussion of important scientific issues in attractive, informal resort environments. For Special Conferences only, minority faculty at the level of Instructor, Lecturer, or Assistant Professor are also eligible for these awards..

For Further Information:
Ms. Robin E. Felder, Membership Development Coordinator
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) 440-9313
Email: felder@aacr.org
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- A^w S-\TeX
- Appleworks
- Arbor\TeX
- ArborText
- ClarisWorks WP
- CPT 8000
- CTOS
- Diablo
- DisplayWrite
- Duet
- Einstein
- Enable
- EXP
- Final Word
- FullWrite
- GemWord Plus
- IBM Writing Assistant
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- Mass 11
- MS Windows Write
- MS Works
- MS Works WP Mac
- Multimate
- Multimate Advantage
- Nibia
- Nisus (to ASCII file)
- Notewriter
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AMERICAN ASSOCIATION FOR CANCER RESEARCH

1998 AACR YOUNG INVESTIGATOR AWARDS TO SUPPORT ATTENDANCE AT THE ANNUAL MEETING

- Additional Awards Available for Asian Scientists -

- Corporate- and AACR-sponsored Young Investigator Awards are offered in support of travel to the AACR Annual Meeting by medical and graduate students, physicians-in-training, and postdoctoral fellows who are presenters of abstracts that have been highly rated by the Program Committee. The AACR-sponsored awards include the third AACR Gerald B. Grinney Memorial Young Investigator Award for a young scientist submitting an abstract in the field of preclinical science. Application for these awards is made on the Abstract Submission Form.

- A new program of Young Investigator Awards for scientists from Asia will be inaugurated in 1998. Sponsored by ITO EN, Ltd., these additional new awards are for scientists-in-training (see above) who are presenters of highly rated abstracts and who will be traveling to the Annual Meeting from Asia. Apply as above.

- Please note that the submission of an abstract by the deadline is absolutely required to be considered for the awards described above.

- AACR Minority Scholar Awards are offered to the Annual Meeting and AACR Special Conferences through the Comprehensive Minority Biomedical Program of the National Cancer Institute (NCI). Those eligible for these awards are graduate and medical students, physicians-in-training, and postdoctoral students from minority groups considered underrepresented in cancer research by the NCI, i.e., African Americans, Hispanic Americans, Native Americans, Native Pacific Islanders, and Alaskan Americans. Application deadline: December 1, 1997. Please call the AACR for an application form.

- Women In Cancer Research sponsors the WICR Brigid G. Leventhal Scholar Awards for graduate and medical students, physicians-in-training, and postdoctoral fellows who have submitted an abstract as presenting author for the AACR Annual Meeting. Application deadline: November 28, 1997. Call the AACR for application information.

- Young Investigator Awards are also available for a limited number of young scientists attending each of the AACR’s Special Conferences. For details, consult the conference brochure for each meeting, available on request from the AACR office.

Young scientists may also wish to obtain information about other relevant AACR programs including Associate Membership, research fellowships, the Employment Register, Mentorship Program for young minority investigators, and educational programs at the Annual Meeting and throughout the year. For more information, please contact:

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