

# Instructions for Authors

## Scope

*Cancer Epidemiology, Biomarkers & Prevention* publishes original research on cancer causation and prevention in humans. The following topics are of special interest: descriptive, analytical, biochemical and molecular epidemiology; the use of biomarkers to study the neoplastic and preneoplastic processes in humans; chemoprevention and other types of prevention trials; and the role of behavioral factors in cancer etiology and prevention.

Particular attention will be given to the identification of factors associated with various aspects of the carcinogenic process, including genetic susceptibility, host factors, infectious agents, chemical and physical carcinogens, environmental contaminants, dietary components and behavioral factors such as tobacco use and sun exposure.

Besides welcoming manuscripts that address individual subjects in any of the three disciplines, the Editors encourage the submission of manuscripts with an interdisciplinary approach.

## Contents

- Original research articles
- Invited editorials
- Selected review articles
- Short communications
- Letters to the editor
- Meeting reports
- AACR and ASPO news

## Editorial Policy

When a manuscript is received for consideration, the Editors assume that no similar paper has been or will be submitted for publication elsewhere. Further, it is understood that all authors listed on a manuscript have agreed to its submission. Upon acceptance, authors must transfer copyright to the American Association for Cancer Research, Inc., the publisher and copyright owner of the journal, prior to publication. Once an article is accepted for publication in *Cancer Epidemiology, Biomarkers & Prevention*, the information therein is embargoed from reporting by the media until the mail date of the issue in which the article appears. The Editors endorse the principles embodied in the Declaration of Helsinki and expect that all investigations involving humans will have been performed in accordance with these principles. A copy of the Declaration is available from the World Medical Association, Boîte Postale 63, 01212, Ferney-Voltaire, Cedex, France.

Journal policy requires that authors, reviewers, and Associate Editors reveal to the Editor-in-Chief any relationships that they believe could be construed as causing a conflict of interest with regard to the manuscript submitted for review.

## Manuscript Submission

Mail manuscripts to *Cancer Epidemiology, Biomarkers & Prevention*, AACR Publications Department, Public Ledger Building, Suite 826, 150 South Independence Mall West, Philadelphia, PA 19106-3483. Submit four original sets (not photocopies) of illustrations along with four copies of the manuscript. Illustrations will be returned to the author if the paper is not accepted for publication. If a manuscript is closely related to papers that are in press or have been submitted elsewhere, please provide copies of those papers with your submission. FAX transmission and overnight delivery service will be used to expedite review and publication.

## Publication Fees

A page charge of \$35 per printed page will be levied on all manuscripts accepted for publication. It is understood at the time of submission that the author(s) agree to pay this charge in the event of publication. Under exceptional circumstances, when no grant or other source of support exists, the author(s) may apply to Dr. Margaret Foti, Director of Publications, AACR Publications Department (see end of page for address) at the time of submission for a waiver of the page charges. All such applications must be countersigned by an appropriate institutional official stating that no funds are available for the payment of page charges.

## Format

Manuscripts must be written succinctly in clear, grammatical English. Define abbreviations in an inclusive footnote to the text. Double-space on 8 1/2 × 11-inch paper. Dot-matrix printing is not acceptable. The format is as follows:

1. Title page, including title, authors, and affiliations;
2. A running title of fewer than 50 characters;
3. Text, arranged in this order: Abstract (not more than 250 words), Introduction, Materials and Methods, Results, Discussion, Acknowledgments, References;
4. Footnotes, on a page separate from the text. Designate footnotes consecutively with superscript Arabic numerals;
5. Tables, on pages separate from the text, with descriptive titles and/or legends;
6. Figure legends, on pages separate from the text. Define all symbols and include staining for halftones, where applicable.

## References

Include only those articles that have been published or are in press. Unpublished data or personal communications must be cited as footnotes to the text. Personal communications should be substantiated by a letter of permission.

Number references in the order of their first mention in the text. Cite only the number assigned to the reference. References must be double-spaced.

Sample references:

1. Fontham, E. T. H., Correa, P., Wu-Williams, A., Reynolds, P., Greenberg, R. S., Buffler, P. A., Chen, V. W., Boyd, P., Alterman, T., Austin, D. F., Liff, J., and Greenberg, S. D. Lung cancer in nonsmoking women: A multicenter case-control study. *Cancer Epidemiol., Biomarkers & Prev.*, 1: 35-43, 1991.
2. Reznikoff, C. A., Swaminathan, S., and Verma, A. K. Cultured normal human uroepithelial cells: a new system for *in vitro* carcinogenesis studies. In: M. Webber and L. Sikeley (eds.), *In Vitro Models for Cancer Research*, pp. 63-101. Boca Raton, FL: CRC Press, 1986.

## Illustrations

Provide four original sets of illustrations (whether line-cut drawings or halftones). Label each figure in pencil on the reverse side with the first author's name, figure number, and an arrow indicating top of figure. Letters and numbers on illustrations should not be smaller than 6-point or larger than 12-point type. All illustrations will be published at a width of approximately 3 inches (8 cm) unless the author requests a greater width. Use tissue overlays to indicate important areas of the photographs that must be reproduced with the greatest fidelity.

Authors are encouraged to submit color figures. The expense of reproducing color photographs must be offset partially by the author. The cost of color reproduction charged to authors is **\$975 per color figure**. Submit color illustrations on flexible backing.

## Proofs

Page proofs must be returned to the office of the American Association for Cancer Research within 24 hours of receipt. Return proofs by overnight mail. **Proofs not received by the deadline will be published without the authors' corrections.** Accepted manuscripts are regarded as final copy and should not be altered substantially in proof. Extensive alterations could cause publication delays, and authors will be charged for excessive changes in proof.

## Typesetting Manuscripts from Computer Disks

*Cancer Epidemiology, Biomarkers & Prevention* requests the submission of disks to expedite production of accepted manuscripts. If your article is accepted for publication, you will receive instructions regarding disk submission and a form which must be completed and returned with your disk to the AACR Publications Department within 48 hours of notification of acceptance. It is the author's responsibility to ensure that the material on the disk matches the final accepted version of the manuscript.

## For More Information, Contact:

Publications Department, American Association for Cancer Research, Public Ledger Building, 150 South Independence Mall West, Suite 826, Philadelphia, PA 19106-3483. Telephone: (215)440-9300; FAX: (215)440-9355.



# AMERICAN ASSOCIATION FOR CANCER RESEARCH

## 1998 RESEARCH FELLOWSHIPS

### For Young Scientists at the Postdoctoral or Clinical Fellow Level

- **1998-1999 Research Fellowship in Basic Research:** This Fellowship, sponsored by the AACR, will provide a two-year grant of \$30,000 per year to a young scientist in North, Central, or South America engaged in meritorious basic cancer research.
- **1998-1999 Research Fellowship in Clinical/Translational Research:** This Fellowship, sponsored by Amgen, Inc., will provide a two-year grant of \$30,000 per year to a young scientist in North, Central, or South America engaged in meritorious clinical or translational cancer research.
- **1998-1999 Research Fellowship in Clinical Research:** This Fellowship, sponsored by Bristol-Myers Squibb Oncology, will provide a two-year grant of \$30,000 per year to a young scientist in North, Central, or South America engaged in meritorious clinical cancer research.
- **1998-1999 Research Fellowship in Prevention Research:** This Fellowship, sponsored by the Cancer Research Foundation of America, will provide a two-year grant of \$30,000 per year to a young scientist in North, Central, or South America engaged in meritorious cancer prevention research.
- **1998 Research Fellowships in Basic Research:** Two Fellowships, sponsored by The Sidney Kimmel Foundation for Cancer Research and Hoechst Marion Roussel, will each provide a one-year grant of \$30,000 to a young scientist in North, Central, or South America engaged in meritorious basic cancer research.

### Eligibility/Selection Process

Candidates must have completed the M.D., Ph.D., or other doctoral degree. Candidates must currently be a postdoctoral or clinical research fellow and must have been a fellow for at least two years but not more than five years prior to the year of the award. Academic faculty holding the rank of assistant professor or higher, graduate or medical students, medical residents, permanent government employees, employees of private industry, and individuals who will receive fellowships from similar programs during the award year are not eligible. A candidate need not be a member of the AACR at the time of application, but he or she must be nominated by an AACR Member, and non-members must submit an acceptable application for membership with the fellowship application. Associate Members may not be nominators. Applications will receive careful scientific evaluation by a prestigious, multidisciplinary Committee consisting of AACR Members who are experts in basic, clinical, and translational cancer research. Applications must be submitted in complete form by **January 15, 1998**.

### For Further Information/Application Forms

AMERICAN ASSOCIATION FOR CANCER RESEARCH

Public Ledger Building, Suite 826

150 South Independence Mall West

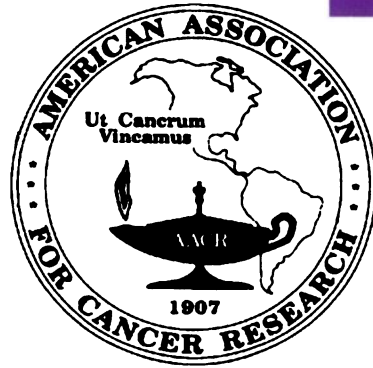
Philadelphia, PA 19106-3483

Telephone: (215) 440-9300 • FAX: (215) 440-9372

E-mail: horst@aacr.org

FIRST ANNOUNCEMENT

*89th Annual Meeting*



# *American Association*

# *for* --- *Cancer Research*

March 28 – April 1, 1998

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New Orleans, Louisiana

*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

CALL FOR ABSTRACTS

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# AMERICAN ASSOCIATION FOR CANCER RESEARCH 89TH ANNUAL MEETING



Frank J. Rauscher III, Program Committee Chairperson

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Ernest N. Morial Convention Center, New Orleans, LA  
March 28-April 1, 1998

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

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- |   |   |
|---|---|
| Inherited Cancer Susceptibility Syndromes: Genetics, Genes, and Function  | Molecular Targets and Endpoints for Chemoprevention                 |
| Emerging Concepts in Individual Cancer Susceptibility   | The Latest in Telomere and Telomerase Function: Proof of Principle? |
| Tobacco and Lung Carcinogenesis: Genetics, Biology, and Etiology  | Histone (De) Acetylation and Chromatin Remodeling                   |
| Organ-Site Specific Tumorigenesis: Basic Science and Clinical Aspects of  | DNA Repair  |
| Breast and Ovarian Cancer   | Advances in Drug Resistance: Basic and Clinical                     |
| Prostate Cancer   | Growth Factor Signaling   |
| Gastrointestinal Cancer   | Antisense in Clinical Trials  |
| Hematologic Malignancies  | Nuclear Transports  |
| Tumor Physiology: Tumor-Stromal, Cell-Cell, and Microenvironment Interactions                                   | Integrin Signaling  |
| An Integrated Approach to Angiogenesis: Inducers and Inhibitors from the Bench to the Bedside                   | Metalloproteinases  |
| Wnt Signalling Pathways in Human Tumorigenesis: APC/Beta Catenin/TCF-LEF  | Radiation Sensitization   |
| Cell Death Signalling Pathways: Caspase Cascades and Effectors/Initiators of Apoptosis                          | Myelodysplastic Syndrome  |
| The bcl-2 Family: Regulation and Effectors  | Cytokine Signaling  |
| Transcriptional Regulation of the Neoplastic Phenotype  | Cell Cycle Control  |
| Developmental Biology-based Approaches to Tumorigenesis: Genetic Control of Pattern Formation and Organogenesis | Leukemia and Solid Tumor Translocations                             |
| Reconstruction of Human Tumorigenesis and Progression: Cancer Genetics in Model Organisms                       | COX-2 Inhibitors  |
| New Concepts in Genome Damage in Cancer: Initiation and Progression   | Nuclear Hormone Receptors   |
| Molecular Determinants of Cellular and Tumor Responses to Radiation   | Chemoprevention Clinical Trials                                     |
| New Mechanisms of Action of Viral and Cellular Oncogenes  | Gene Transfer to Hematopoietic Progenitors                          |
| Tumor Virology: Molecular Biology and Etiology  | IL-12: Biological and Clinical Developments                         |
| Genetic Approaches to Diagnosis: The Impact of Molecular Medicine on Early Detection and Diagnosis              | Immunotherapy and Costimulatory Molecules                           |
| The Molecular Basis of Immune Recognition: Basic Concepts with Therapeutic Implications                         | B-Cell Lymphomas  |
| Advances in Cancer Vaccine Development  | Emerging Issues in Molecular Epidemiology                           |
| Successes in Oncogene-Based Drug Targeting: Selectivity and Specificity?  | Immunostimulatory Sequences   |
| Molecular Diversity-based Approaches to Anticancer Drug Design  | Mechanisms of p53 Action  |
| New Concepts in Antimetabolites: Basic Science and Clinical Trials  | IGF-1 and Cancer  |
| Restoring Drug Sensitivity to Tumors: New Concepts from Tumor Biology and Physiology                            | Topoisomerases  |
| Progress in Cancer Gene Therapy: New Concepts/Targets and Clinical Trial Reports                                | Brain Tumors  |
|   | Vascular Permeability   |
|   | Animal Models for Chemoprevention Issues                            |
|   | Invasion and Metastasis   |
|   | Carbohydrates and Cancer  |
|   | Genome Project Update   |
|   | Fidelity of DNA Replication   |
|   | Psychosocial Aspects of Genetic Diagnosis                           |
|   | Melanoma  |
|   | Taxanes, Epibotulins, and Tubulins                                  |
|   | Antibody Therapy  |
|   | Combination of Chemotherapy/Biotherapy                              |

<b>Topics of Special Sessions at 1998 Annual Meeting</b>	<i>Opposite Page</i>
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*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,

A handwritten signature in dark ink, reading "F. J. Rauscher III". The signature is written in a cursive style with a prominent "F" and "R".

Frank J. Rauscher III, Ph.D.  
Program Chairperson

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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.

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**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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## ABSTRACT SUBMISSION FEE

A fee of US\$40 will be assessed for each abstract submitted for consideration by the Program Committee. This fee offsets some of the costs of processing the abstract. Each abstract must be accompanied by a check for US\$40 payable to the American Association for Cancer Research, Inc. - OR - authorization must be provided to charge this fee to a credit card that is accepted by AACR (see Item 8 on the abstract form). All checks must be drawn on a United States bank. Please list the PRESENTER's name on the check. NOTE: Purchase orders will not be accepted.

In cases of the voluntary withdrawal of an abstract by the author, the return of the abstract because of violation of abstract regulations, or the rejection of the abstract for presentation, the submission fee will not be refunded.

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## INSTRUCTIONS FOR PREPARATION AND SUBMISSION OF ABSTRACTS

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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.

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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.

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## 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.**

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- Windows: MS Word 2.0, 6.0, 7.0, '97  
WordPerfect 5.0-5.2, 6.0, 7.0  
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1. Abstracts must be received in the office of the American Association for Cancer Research no later than October 28, 1997. Submission at an earlier date would be appreciated. The AACR urges investigators working outside of the United States to send their abstracts well ahead of the deadline date or to use one of the international courier services that offer delivery within a few days. The deadline for receipt must be applied uniformly to all abstracts regardless of their origin. FAX or other electronic transmittals will not be accepted.

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# 1998 ABSTRACT CATEGORIES AND SUBCLASSIFICATIONS

<b>BL</b>	<b>CELL AND TUMOR BIOLOGY</b>	BL4-05 Blood flow and microcirculation	MB3-06 Guanine nucleotide binding proteins and effectors
BL1	<b>Cell Growth Signaling Pathways: Cell Biology Aspects</b>	BL4-06 Vascular, lymphatic, and interstitial transport	MB3-07 Mitogenic signaling kinase cascades
BL1-01	Growth factors: structure and function	BL4-07 Physiological resistance to cancer therapy	MB3-08 Oncogenic transcription factors
BL1-02	Receptors: structure and function	BL4-08 Vascular structural reorganization	MB3-09 New oncogenes
BL1-03	Signaling: membrane to nucleus	BL4-09 Other	MB3-10 New oncogene networks
BL1-04	Autocrine-paracrine signaling		MB3-11 Other
BL1-05	Physiology/organismal homeostasis	<b>MB MOLECULAR BIOLOGY</b>	
BL1-06	Cell-matrix interactions	<b>MB1 Cancer Genetics I: New Loci and Mechanisms of Genomic Alterations</b>	<b>MB4 Gene Expression and Epigenetic Regulation</b>
BL1-07	Adhesion and cytoarchitecture inputs	<b>New human cancer genes: mapping of loci and cloning</b>	MB4-01 Cancer genome anatomy: comparative expression patterns
BL1-08	Cell-cell interactions: communication/GAP junctions	MB1-01 Molecular cytogenetics	MB4-02 New methods in tumor microdissection/comparative expression
BL1-09	Cell-cell adhesion receptors	MB1-02 Comparative genomic hybridization	MB4-03 DNA methylation and maintenance
BL1-10	Tumor-stromal cell interactions	MB1-03 LOH and marker studies	MB4-04 Enzymology of DNA methylation/modification
BL1-11	Organogenesis and tumor development	MB1-04 Familial cancer and linkage studies	MB4-05 Imprinting and allele-specific expression
BL1-12	Cell and tissue kinetics/physiology	MB1-05 Positional cloning	MB4-06 Silencing and reactivation of gene expression
BL1-13	Tissue remodeling and regeneration	MB1-06 Expression cloning strategies	MB4-07 Telomeres and telomerase
BL1-14	Wound healing and tissue repair	MB1-07 New mutation detection methods	MB4-08 Cellular aging and senescence: molecular studies
BL1-15	Animal models of tissue host-tumor interactions	<b>Mechanisms of genomic alterations</b>	MB4-09 Other
BL1-16	Other	MB1-08 Cancer genome anatomy: comparative genomics	
<b>BL2 Cell Death Signaling</b>		MB1-09 Gene amplification	<b>MB5 Gene Regulation and Transcriptional Control of the Cancer Phenotype</b>
BL2-01	Transcriptional control of apoptosis	MB1-10 Chromosomal translocations: genomic aspects	MB5-01 Basic mechanisms of transcription: biochemistry/enzymology
BL2-02	Genetic and developmental controls	MB1-11 Genetic instability: multistep progression	MB5-02 Transcription-coupled repair: genetics/biochemistry
BL2-03	Receptor coupled signaling to apoptosis	MB1-12 Mutator genes: structure/function	MB5-03 Promoter/enhancer analysis
BL2-04	Death protein networks	MB1-13 Genomic markers of mutator gene status	MB5-04 Growth factor-inducible gene expression
BL2-05	ICE proteases/caspases: cascades/substrates	MB1-14 DNA damage: enzymology/repair of lesions	MB5-05 Oncogenic transcription factor function: leukemias/lymphomas/solid tumors
BL2-06	Caspase inhibitors: experimental and preclinical	MB1-15 Transcriptional control of genomic instability	MB5-06 Transgenic models of promoter and transcription factor function
BL2-07	Enzymology of apoptosis	MB1-16 Fragile sites and DNA recombination	MB5-07 Protein-protein interaction in transcription factor function
BL2-08	Nuclear targets/effectors of apoptosis	MB1-17 Other	MB5-08 Protein phosphorylation and control of gene expression
BL2-09	Growth factors and other survival signals	<b>MB2 Cancer Genetics II: Tumor Suppressor Genes: Structure and Function</b>	MB5-09 Transcriptional control of cell differentiation
BL2-10	Cell adhesion/cell-cell interactions in apoptosis	MB2-01 New mutations in human tumors	MB5-10 Transcriptional programs and organogenesis
	<b>Developmental control of apoptosis: organ sites</b>	MB2-02 Genotype/phenotype correlations	MB5-11 Chromatin structure/higher order regulation
BL2-11	Hematopoiesis	<b>New functional aspects of selected known tumor suppressor genes</b>	MB5-12 Gene position effects and genomic sensing
BL2-12	Lymphopoiesis	MB2-03 p53	MB5-13 Antisense control of gene expression
BL2-13	Breast: development/lactation/regression	MB2-04 Rb and family	MB5-14 Posttranscriptional and translational control
BL2-14	Prostate	MB2-05 WT1	MB5-15 New methods for multiplex analysis of gene expression
BL2-15	Other	MB2-06 NF1/NF2	MB5-16 Structural biology of transcription factors
BL2-16	bcl-2 pathways: effectors and inhibitors	MB2-07 VHL	MB5-17 Other
BL2-17	Fas, TNF receptor family	MB2-08 DCC	
BL2-18	Other	MB2-09 APC	<b>MB6 Cell Cycle</b>
<b>BL3 Tumor Progression, Invasion, and Metastasis</b>		MB2-10 BRCA1	MB6-01 Growth factor control of cell cycle
BL3-01	Tissue degradation: proteases-inhibitor systems	MB2-11 BRCA2	MB6-02 Genetic control of cell cycle progression
BL3-02	Motility: receptors and signaling	MB2-12 Other	MB6-03 Cell cycle genetic alterations
BL3-03	Adhesion-extravasation-migration	MB2-13 New tumor suppressor genes	MB6-04 Cell cycle checkpoints
BL3-04	Inflammation and tumor development	MB2-14 Suppressors of metastasis	MB6-05 Checkpoints: genetics and biochemistry
BL3-05	Macrophage-tumor interactions	MB2-15 Tumor suppressor networks - functional pathways	MB6-06 Cyclins and CDKs
BL3-06	Organ-specific metastasis	MB2-16 Other	MB6-07 CDK inhibitors
BL3-07	New metastasis genes	<b>MB3 Cancer Genetics III: Human and Retroviral Oncogenes: Structure and Function</b>	MB6-08 Phosphorylation and proteolysis in cell cycle control
BL3-08	Mechanisms of cell motility and migration	MB3-01 Growth factors and soluble molecules	MB6-09 Negative regulation of cell cycle
BL3-09	Mechanisms of bone metastasis	MB3-02 Protein tyrosine kinases: receptor and nonreceptor	MB6-10 Viral oncoproteins and cell cycle regulation
BL3-10	Xenograft-metastasis systems and their models	MB3-03 Protein serine-threonine kinases: receptor and nonreceptor	MB6-11 Other
BL3-11	Occult metastasis: detection	MB3-04 Phosphatases: receptor and nonreceptor	
BL3-12	Other	MB3-05 Cytosolic adaptors and intermediate molecules	
<b>BL4 Host-Tumor Interactions: Angiogenesis and Microcirculation</b>			
BL4-01	Mechanisms and signaling events		
BL4-02	Angiogenic factors and receptors		
BL4-03	Angiogenesis inhibitors: endogenous and synthetic		
BL4-04	Endothelial cell functions		

MB7	<b>Viral Oncogenesis</b>	EP2-02	Familial cancer genetics	CL3-09	Ovarian and other gynecological cancers
MB7-01	Viruses and susceptibility/promotion	EP2-03	Cancer syndromes	CL3-10	Pediatric malignancies
MB7-02	Human tumor viruses: etiology/epidemiology	EP2-04	Genotype/phenotype correlations in cancer families	CL3-11	Prostate and other genitourinary tract cancers
MB7-03	Molecular biology and genetics of viruses	EP2-05	Susceptibility and risk assessment	CL3-12	Sarcomas
MB7-04	DNA tumor viruses	EP2-06	Genetic counseling and ethical issues	CL3-13	Secondary cancers
MB7-05	Viral transformation and carcinogenesis	EP2-07	Cancer surveillance in high-risk populations	CL3-14	Animal/transgenic models of molecular progression
MB7-06	Viral gene regulation	EP2-08	Proactive cancer screening	CL3-15	Other
MB7-07	Viral oncogenes	EP2-09	Other		
MB7-08	Host-virus interactions				
MB7-09	Other				
<b>CG</b>	<b>CARCINOGENESIS</b>	<b>PR</b>	<b>PREVENTION</b>	<b>CL4</b>	<b>Clinical Pharmacology</b>
CG1	<b>Biomarkers, Premalignant Lesions, Risk Assessment</b>	PR1	<b>Preclinical Prevention Studies: Markers and Mechanisms</b>	CL4-01	Clinical drug resistance
CG1-01	Biomarkers of exposure to carcinogens	PR1-01	Animal/transgenic models in promotion and prevention	CL4-02	Clinical toxicology
CG1-02	Environmental carcinogenesis	PR1-02	Biological and biochemical mechanisms in prevention	CL4-03	Biodistribution/availability
CG1-03	Carcinogenesis in fish models	PR1-03	Biomarkers and intervention studies	CL4-04	Pharmaceutics and monitoring
CG1-04	Genetic susceptibility and risk assessment	PR1-04	Molecular markers in prevention research	CL4-05	Prodrugs and activation strategies
CG1-05	Predictive assays for carcinogenicity	PR1-05	Caloric restriction	CL4-06	Other
CG1-06	Premalignant lesions	PR1-06	Cellular models in prevention research		
CG1-07	Toxicology and carcinogenesis	PR1-07	Chemoprevention	<b>CL5</b>	<b>Modality-based Clinical Research</b>
CG1-08	Drug metabolizing enzymes	PR1-08	Diet, nutrition, and cancer	CL5-01	Cell-based therapeutics
CG1-09	GSH/GST	PR1-09	Genetic influences on diet and cancer	CL5-02	Differentiation therapy
CG1-10	Other	PR1-10	Genetic susceptibility and prevention	CL5-03	Gene therapy clinical trials
CG2	<b>Molecular Carcinogenesis: Metabolism, DNA Lesions, Mutagenesis, and Repair</b>	PR1-11	Hormones and chemoprevention	CL5-04	Hematopoietic colony stimulating factors
CG2-01	Biochemical aspects of carcinogen function: enzymatic bioactivation	PR1-12	Modulators of arachidonic acid metabolism	CL5-05	Mechanism-based combination chemotherapy
CG2-02	Biochemistry of DNA repair	PR1-13	Other	CL5-06	Multimodality therapy
CG2-03	DNA adducts: identification and conformational effects	PR2	<b>Clinical Prevention Studies</b>	CL5-07	Adjuvant chemotherapy
CG2-04	DNA adducts: repair and sequence specificity	PR2-01	Biomarkers and intervention studies	CL5-08	Clinical reversal of multidrug resistance
CG2-05	Genetic and cytogenetic alterations	PR2-02	Chemoprevention trials	CL5-09	Transplantation: bone marrow and other stem cell approaches
CG2-06	Metabolism and activation of carcinogens in animal models and humans	PR2-03	Studies at the interface of cancer prevention and chemotherapy	CL5-10	Alternative medicine research
CG2-07	Molecular responses to DNA damage	PR2-04	Physiological and lifestyle effects on chemoprevention	CL5-11	Other
CG2-08	Mutagenesis	PR2-05	Prevention clinical trials		
CG2-09	Mutational spectrum of carcinogens	PR2-06	Prevention of second cancers	<b>CL6</b>	<b>Molecular Biology/Oncology in the Clinic</b>
CG2-10	Oxygen radicals	PR2-07	Prevention studies in high-risk populations	CL6-01	Advances in genome scanning relevant to the clinic
CG2-11	Other	PR2-08	Other	CL6-02	Comparative genomic hybridization from the bench to the clinic
CG3	<b>Promotion and Progression</b>			CL6-03	Cytogenetics and clinical molecular genetics
CG3-01	Cellular transformation	<b>CL</b>	<b>CLINICAL RESEARCH</b>	CL6-04	Minimal residual disease
CG3-02	Growth factors in progression	CL1	<b>Phase I Clinical Trials</b>	CL6-05	Molecular markers of metastasis and progression
CG3-03	Mesenchymal/epithelial interactions	CL1-01	Phase I Clinical Trials	CL6-06	Oncogene-based molecular diagnosis and prognosis
CG3-04	Signal transduction	CL2	<b>Phase II-III Clinical Trials</b>	CL6-07	Tumor staging: correlation of clinical and molecular markers
CG3-05	Tumor promotion and progression	CL2-01	AIDS-related malignancies	CL6-08	Other
CG3-06	Other	CL2-02	Brain/central nervous system cancers		
<b>EP</b>	<b>EPIDEMIOLOGY</b>	CL2-03	Breast cancer	<b>CL7</b>	<b>Supportive Care and Psychosocial Aspects of Cancer</b>
EP1	<b>Analytical Epidemiology in Populations</b>	CL2-04	Colon and other gastrointestinal cancers	CL7-01	Cancer information access and dissemination
EP1-01	Behavioral epidemiology	CL2-05	Head and neck cancers	CL7-02	Pain research
EP1-02	Cancer in minority and medically underserved populations	CL2-06	Leukemias and lymphomas	CL7-03	Palliative care
EP1-03	Diet, nutrition, and lifestyle factors	CL2-07	Lung cancer	CL7-04	Psychosocial aspects of cancer
EP1-04	Environmental and occupational etiology	CL2-08	Melanoma and skin cancer	CL7-05	Other
EP1-05	Radiation exposure and cancer risk	CL2-09	Ovarian and other gynecological cancers		
EP1-06	Gene-environment interactions	CL2-10	Pediatric malignancies	<b>EN</b>	<b>ENDOCRINOLOGY/ PRECLINICAL AND CLINICAL</b>
EP1-07	Human tumor viruses and other infectious agents in susceptible populations	CL2-11	Prostate and other genitourinary tract cancers	EN1	<b>Molecular and Preclinical Endocrinology: Receptors and Signal Transduction</b>
EP1-08	Genetic polymorphisms and metabolizing enzymes	CL2-12	Sarcomas	EN1-01	Cytokines and receptors
EP1-09	Preneoplastic lesions	CL2-13	Other	EN1-02	Growth factors and cell surface receptors
EP1-10	Methodology, computer modeling, and biostatistics	CL3	<b>Organ-Site Specific Studies: Preclinical Research (Tumor Biology/Translational Research/ Experimental Therapeutics)</b>	EN1-03	Developmental control of hormone receptors
EP1-11	Other	CL3-01	AIDS-related malignancies	EN1-04	Hormonal control of cell growth and death
EP2	<b>Genetic and Molecular Epidemiology</b>	CL3-02	Brain/central nervous system cancers	EN1-05	Hormone action and inhibitors
EP2-01	Genetic markers and biomarkers in epidemiology	CL3-03	Breast cancer	EN1-06	Hormones and differentiation
		CL3-04	Colon and other gastrointestinal cancers	EN1-07	Hormone receptor networks: signal transduction
		CL3-05	Head and neck cancers	EN1-08	Nuclear receptors: structure and function
		CL3-06	Leukemias and lymphomas	EN1-09	New ligands
		CL3-07	Lung cancer		
		CL3-08	Melanoma and skin cancer		

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

(See also CLINICAL RESEARCH, Organ-Site Specific Studies: Preclinical Research (Tumor Biology/Translational Research/Experimental Therapeutics) and Clinical Pharmacology)

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

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**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, Inc., 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<sup>-</sup> 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% of the 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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# 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
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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.

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### 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:

Receipt of Application in AACR Office	Notification of Candidate
January 1	March
May 1	July
September 1	November

A complete application consists of the following material:

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

All material should be collated into five complete sets with the original application form as a covering document and sent to the address given below. Questions regarding procedures for membership application may also be directed to the following address:

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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: aacr@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.  
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*Application for Active or Corresponding Membership*

NAME OF CANDIDATE: \_\_\_\_\_ DATE OF BIRTH: \_\_\_\_\_  
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PRESENT POSITION/TITLE: \_\_\_\_\_  
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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      \_\_\_\_ Virology      \_\_\_\_ Other: \_\_\_\_\_  
Experimental Therapeutics (Please specify)

ACADEMIC DEGREES (Including where and when granted)  
\_\_\_\_\_  
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\_\_\_\_\_

EXPERIENCE SINCE HIGHEST DEGREE WAS GRANTED (Please list most recent first)  
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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.)  
\_\_\_\_\_  
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CANDIDATE IS APPLYING FOR (Check one):       Active Membership       Corresponding Membership

CANDIDATE NOMINATED BY\*: \_\_\_\_\_  
(Please print)

CANDIDATE SECONDED BY\*: \_\_\_\_\_  
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Instead of submitting letters of recommendation, either the nominator or the seconder or both may complete the following section:  
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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.



# AMERICAN ASSOCIATION FOR CANCER RESEARCH

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### QUALIFICATIONS FOR MEMBERSHIP

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

### BENEFITS OF MEMBERSHIP

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

1. the privilege of sponsoring a proffered paper (abstract) for consideration for presentation at the AACR annual meeting provided that (a) the associate member is the presenter of the paper and (b) an active, corresponding, emeritus, or honorary member in good standing of the AACR also signs the abstract of the paper in support of the work. (In this instance, the member who cosigns the abstract does not lose his or her own sponsorship privilege.);
2. optional subscriptions to the Association's high-quality journals: *Cancer Research*, *Clinical Cancer Research*, *Cell Growth & Differentiation*, and *Cancer Epidemiology, Biomarkers & Prevention* at reduced member rates; beginning in 1998 associate members will be able to purchase AACR journals for half the price of a regular member subscription;
3. 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 benefitting 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: LAST FIRST M.I. DATE OF BIRTH: Month / Day / Year

INSTITUTIONAL AFFILIATION:

INSTITUTIONAL ADDRESS:

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

TELEPHONE NUMBER: FAX NUMBER:

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

PRESENT ACADEMIC STATUS/TITLE (Please check only one): E-MAIL ADDRESS:

Graduate Student Medical Student Gender: Male Female
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 Virology Other: (Please specify)
Experimental Therapeutics

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.



AUDIO & VIDEO CASSETTE ORDER FORM  
AMERICAN ASSOCIATION FOR CANCER RESEARCH  
**88<sup>TH</sup> ANNUAL MEETING**  
April 12 - 16, 1997 • San Diego, CA



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- CAN 704 (2 cass., \$23) Methods Workshop 3: Protein-Protein Interactions
- CAN 705 (2 cass., \$23) Educational Session 4: Nonviral Delivery Systems for Gene Therapy
- CAN 706 (2 cass., \$23) Educational Session 5: The Biology of Cancer Metastasis
- CAN 707 (2 cass., \$23) Educational Session 1: Genetics and Biochemistry of Programmed Cell Death
- CAN 708 (2 cass., \$23) Educational Session 3: Telomerase, Cellular Senescence, and Cancer
- CAN 709 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Molecular Approaches to the Management of Ovarian Cancer (*Robert C. Bast, Jr.*)
- CAN 710 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Transcriptional Models and Drug Discovery (*William G. Kaelin, Jr.*)
- CAN 711 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Research Issues and Special Populations (*Otis W. Brawley*)
- CAN 712 (1 cass., \$11.50) Meet the Expert Sunrise Session: Cancer Vaccines (*David P. Carbone*)
- CAN 713 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Chemoprevention in Transgenic Animals (*James M. Phang*)
- CAN 714 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Advances in Stem Cell Transplantation (*Elizabeth J. Shpall*)
- CAN 715 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Interactions of Membrane Lipids and Kinases: Novel Targets for Radiation Killing (*Ralph R. Weichselbaum*)
- CAN 716 (2 cass., \$23) Plenary Session: Genetic Predisposition to Cancer
- CAN 717 (1 cass., \$11.50) Presentation by the Director of the National Cancer Institute (*Richard D. Klausner*)
- CAN 718 (1 cass., \$11.50) Thirty-Seventh G.H.A. Clowes Memorial Award Lecture: "bcl-2 Gene Family and the Regulation of Cell Death" (*Stanley J. Korsmeyer*)
- CAN 719 (3 cass., \$34.50) Minisymposium Pharmacology/Therapeutics 11: Molecular Mechanisms Controlling Sensitivity to Antifolates
- CAN 720 (3 cass., \$34.50) Minisymposium Radiobiology/Radiation Oncology 2: Genetic Determinants of Cellular Response to Radiation
- CAN 721 (2 cass., \$23) Minisymposium Biology 6: Proteinases: Invasion and Regulation
- CAN 722 (2 cass., \$23) Minisymposium Epidemiology/Prevention 2: Genetic Susceptibility
- CAN 723 (2 cass., \$23) Symposium 1: Genes, Cell Proliferation, and Antineoplastic Drugs
- CAN 724 (2 cass., \$23) Symposium 2: Acute Myeloid Leukemia
- CAN 725 (2 cass., \$23) Symposium 3: New Techniques for Molecular Diagnostics
- CAN 726 (2 cass., \$23) Symposium 4: Behavioral and Psychosocial Methods in Cancer Epidemiology and Control
- CAN 727 (1 cass., \$11.50) Second Joseph H. Burchenal AACR Clinical Research Award: "Antigen Receptors as Targets for Immunotherapy of Lymphoma" (*Ronald Levy*)
- CAN 728 (2 cass., \$23) Minority Issues Committee Careers Symposium
- CAN 729 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Advances in the Management of AIDS-related Malignancies (*Ellen G. Feigal*)
- CAN 730 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: How to Get Your New Idea into the Clinic — Experiences with Antiangiogenesis Agents (*Elise C. Kohn*)

- CAN 731 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: The Biological Basis of the New International Classification of Lymphomas (*Elaine S. Jaffe*)
- CAN 732 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: *FHIT* Gene Alterations in Cancer (*Kay Huebner*)
- CAN 733 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Advances in Oncological Imaging (*Michael J. Welch*)
- CAN 734 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Cancer Survivorship Research (*Anna T. Meadows*)
- CAN 735 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: p53 and Genetic Instability (*Geoffrey M. Wahl*)
- CAN 736 (2 cass., \$23) Symposium 5: Demystifying the Role of Cytokines in Tumor Immunobiology: Status and Future Utility
- CAN 737 (2 cass., \$23) Symposium 6: Epidemiology and Pathogenesis of Secondary Cancers
- CAN 738 (2 cass., \$23) Symposium 7: Animal Models for Functional Analysis of Tumor Suppressor Genes
- CAN 739 (3 cass., \$34.50) Minisymposium Pharmacology/Therapeutics 17: Molecular Mechanisms of Drug Resistance
- CAN 740 (2 cass., \$23) Minisymposium Molecular Biology/Biochemistry 11: Novel Tumor Suppressor Genes and New Interactions of Known Tumor Suppressor Genes
- CAN 741 (2 cass., \$23) Minisymposium Clinical Investigations 4: Clinical Relevance of p53 Mutations
- CAN 742 (3 cass., \$34.50) Minisymposium Carcinogenesis 6: Gene Regulation in Tumor Initiation, Promotion, and Progression
- CAN 743 (1 cass., \$11.50) Controversy Session 1: What is the Role of Prophylactic Surgery in Breast and Ovarian Cancer?
- CAN 744 (1 cass., \$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 cass., \$11.50) Sixth American Cancer Society Award Lecture on Cancer Epidemiology and Prevention: "Etiology, Natural History, Management, and Molecular Genetics of HNFCC (Lynch Syndromes): Genetic Counseling Implications" (*Henry T. Lynch*)
- CAN 746 (2 cass., \$23) Minisymposium Pharmacology/Therapeutics 23: Human Gene Therapy: Clinical Trials and New Approaches
- CAN 747 (2 cass., \$23) Minisymposium Biology 14: Regulation of Apoptosis
- CAN 748 (3 cass., \$34.50) Minisymposium Immunology/Biological Therapy 7: Tumor Antigen Presentation, Costimulation, Normal and Abnormal T-Cell Activation
- CAN 749 (3 cass., \$34.50) Minisymposium Molecular Biology/Biochemistry 15: Regulation of Gene Expression in Signal Transduction
- CAN 750 (2 cass., \$23) Symposium 8: Prostate Cancer
- CAN 751 (2 cass., \$23) Symposium 9: Cell Cycle Regulation
- CAN 752 (2 cass., \$23) Symposium 10: Gene Interactions with the Environment/Carcinogenesis
- CAN 753 (1 cass., \$11.50) "NCI Listens": A Session Organized by the National Cancer Institute's Board of Scientific Advisors
- CAN 754 (1 cass., \$11.50) Annual Business Meeting of the American Association for Cancer Research, Inc.
- CAN 755 (1 cass., \$11.50) NCI Training Branch Workshop
- CAN 756 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Approaches to Using Genes as Cancer Therapies (*Jack A. Roth*)
- CAN 757 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Mechanisms Regulating p53 Function (*Guillermo Lozano*)
- CAN 758 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Farnesyl Transferase Inhibitors: Attacking the Molecular Basis of Cell Transformation (*Allen I. Oliff*)
- CAN 759 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: *Helicobacter pylori* as a Carcinogen (*Pelayo Correa*)
- CAN 760 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: New Approaches to Overcoming Multidrug Resistance (*Alan F. List*)
- CAN 761 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Human Cancer Genetics Travels to Cyberspace (*Kenneth H. Buetow*)
- CAN 762 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: DNA Methylation in Cancer (*Stephen B. Baylin*)

- CAN 763 (1 cass., \$11.50) NIH Grants: So What's New?
- CAN 764 (2 cass., \$23) Symposium 11: Novel Clinical Trials Based on Genetics and Molecular Therapeutics
- CAN 765 (2 cass., \$23) Symposium 12: Identification and Management of Genetic-High-Risk Individuals
- CAN 766 (2 cass., \$23) Symposium 13: Mechanisms of Cellular Senescence
- CAN 767 (2 cass., \$23) Minisymposium Pharmacology/Therapeutics 29: Drug Targeting
- CAN 768 (3 cass., \$34.50) Minisymposium Endocrinology and Signal Transduction 5: Novel Pathways in Endocrine Signal Transduction
- CAN 769 (3 cass., \$34.50) Minisymposium Clinical Investigations 9: From Biology to the Clinical Management of Breast Cancer
- CAN 770 (2 cass., \$23) Minisymposium Biology 18: Regulation of Cell Cycle
- CAN 771 (1 cass., \$11.50) Late-Breaking Research Session
- CAN 772 (1 cass., \$11.50) 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 773 (1 cass., \$11.50) Sixteenth Bruce F. Cain Memorial Award Lecture: "DNA Topoisomerases in Cell Proliferation and Cell Death (*Leroy Fong Liu*)"
- CAN 774 (3 cass., \$34.50) Minisymposium Pharmacology/Therapeutics 35: DNA Repair and Drug Resistance
- CAN 775 (3 cass., \$34.50) Minisymposium Biology 23: Induction and Inhibition of Angiogenesis
- CAN 776 (3 cass., \$34.50) Minisymposium Clinical Investigations 11: Applied and Molecular Biology for Diagnosis and Clinical Studies in Urological Malignancies
- CAN 777 (3 cass., \$34.50) Minisymposium Epidemiology/Prevention 10: Biomarkers and Chemoprevention Studies
- CAN 778 (2 cass., \$23) Symposium 14: Breast Cancer Genes (*Tom Frank's presentation not recorded*)
- CAN 779 (2 cass., \$23) Symposium 15: Apoptosis and Cancer Therapy
- CAN 780 (2 cass., \$23) Symposium 16: Cellular Responses to Endogenous versus Environmentally Induced DNA Damage
- CAN 781 (1 cass., \$11.50) DeWitt S. Goodman Lecture: "Methyl Insufficiency in Cancer" (*Lionel A. Poirier*)
- CAN 782 (1 cass., \$11.50) Sixteenth Cornelius P. Rhoads Memorial Award Lecture: Tumor Suppressor Gene Mutations in Mice (*Tyler Jacks*)
- CAN 783 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Challenges in the Clinical Development of Growth-modulating Agents (*Daniel D. Von Hoff*)
- CAN 784 (2 cass., \$23) Meet-the-Expert Sunrise Session: Barrett's Esophagus: A Model of Human Neoplastic Progression (*Brian J. Reid*)
- CAN 785 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Colon Cancer Genes (*Stanley R. Hamilton*)
- CAN 786 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Retinoids and Cancer Chemoprevention (*Wauw Ki Hong*)
- CAN 787 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Reversion of Human Breast Epithelial Tumor Cells and Tumors by Manipulation of the Microenvironment: Implications for Epithelial Biology and Tumor Therapy (*Mina J. Bissell*)
- CAN 788 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Tumor Virology (*Philip J. Browning*)
- CAN 789 (1 cass., \$11.50) Meet-the-Expert Sunrise Session: Transcriptional Control of Programmed Cell Death in the Genesis and Therapy of Human Acute Leukemias (*A. Thomas Look*)
- CAN 790 (1 cass., \$11.50) Symposium 17: Diagnostic, Prognostic, and Therapeutic Aspects of Tumor Suppressor Genes

- CAN 791 (2 cass., \$23) Symposium 18: Signaling Pathways for Novel Therapeutics
- CAN 792 (2 cass., \$23) Symposium 19: Telomerase and Clinical Applications
- CAN 793 (3 cass., \$34.50) Minisymposium Pharmacology/Therapeutics 42: Thymidylate Synthase Inhibitors
- CAN 794 (3 cass., \$34.50) Minisymposium Immunology/Biological Therapy 12: Cancer Vaccines
- CAN 795 (2 cass., \$23) Minisymposium Carcinogenesis 16: Biomarkers in Risk Assessment
- CAN 796 (3 cass., \$34.50) Minisymposium Molecular Biology/Biochemistry 26: Signal Transduction II
- CAN 797 (1 cass., \$11.50) Controversy Session 2: Estrogen Replacement Therapy: Beneficial or Harmful?
- CAN 798 (1 cass., \$11.50) Controversy Session 3: What Are the Appropriate Therapeutic Uses of Hematopoietic Growth Factors?
- CAN 799 (2 cass., \$23) Minisymposium Pharmacology/Therapeutics 44: Signal Transduction: Tyrosine Kinase Inhibitors
- CAN 7100 (2 cass., \$23) Minisymposium Biology 29: TGFβ
- CAN 7101 (3 cass., \$34.50) Minisymposium Molecular Biology/Biochemistry 27: Telomerase II
- CAN 7102 (3 cass., \$34.50) Minisymposium Carcinogenesis 17: Molecular Responses to DNA Damage
- CAN 7103 (2 cass., \$23) Symposium 20: Metastasis, Invasion, and Angiogenesis: Mechanisms and Therapeutic Strategies
- CAN 7104 (2 cass., \$23) Symposium 21: Colon Cancer

*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 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 745V (1 cass., \$39) Sixth American Cancer Society Award Lecture on Cancer Epidemiology and Prevention: "Etiology, Natural History, Management, and Molecular Genetics of HNFCC (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 773V (1 cass., \$39) Sixteenth Bruce F. Cain Memorial Award Lecture: "DNA Topoisomerases in Cell Proliferation and Cell Death (*Leroy Fong Liu*)"
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**SEPTEMBER 26-30, 1997**

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**Tumor Suppressor Genes**

Co-Sponsored by the National Cancer Institute of Canada

Chairpersons: Stephen H. Friend, Seattle, WA; Philip Branton, Montreal, Quebec, Canada

Victoria Conference Centre, Victoria, BC, Canada

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**OCTOBER 17-21, 1997**

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**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

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**DECEMBER 12-16, 1997**

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**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

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**JANUARY 9-13, 1998**

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**Molecular Mechanisms of Apoptosis Regulation**

Chairpersons: John C. Reed, La Jolla, CA; Vishva M. Dixit, Ann Arbor, MI

Renaissance Esmeralda Resort, Indian Wells (Palm Springs), CA

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**JANUARY 24-28, 1998**

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**Angiogenesis and Cancer**

Chairpersons: Judah Folkman, Boston, MA; Michael Klagsbrun, Boston, MA

Hyatt Orlando, Orlando, FL

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**FEBRUARY 16-21, 1998**

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

Joint Meeting with the Japanese Cancer Association

Chairpersons: Edward Bresnick, Worcester, MA; Kaoru Abe, Tokyo, Japan

Maui Marriott Resort, Maui, HI

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**MARCH 28-APRIL 1, 1998**

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**89th Annual Meeting**

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

*Abstract Deadline: October 28, 1997*

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**JUNE 14-18, 1998**

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**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:

American Association for Cancer Research  
Public Ledger Building, Suite 826  
150 South Independence Mall West  
Philadelphia, PA 19106-3483  
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E-Mail: [aacr@aacr.org](mailto:aacr@aacr.org)



# 1998 AACR ANNUAL MEETING TENTATIVE SCHEDULE OF EVENTS

## SATURDAY, MARCH 28, 1998

8:00 a.m.-1:30 p.m.	Associate Member Council Grant Writing Session
9:00 a.m.-8:00 p.m.	On-site Registration
10:00 a.m.-12:00 noon	Public Session
12:00 noon-6:30 p.m.	Educational Sessions
2:00-6:00 p.m.	Methods Workshops
6:30-8:00 p.m.	WICR Guest Lecture and Reception
8:00-10:00 p.m.	Opening Mixer

## SUNDAY, MARCH 29, 1998

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

## MONDAY, MARCH 30, 1998

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

## TUESDAY, MARCH 31, 1998

7:00 a.m.-4:00 p.m.	On-site Registration
7:00-8:00 a.m.	Meet-the-Expert Sunrise Sessions
8:00-10:30 a.m.	Symposia
8:00 a.m.-12:00 noon	Poster and Poster Discussion Sessions
8:15-11:45 a.m.	Minisymposia
10:00 a.m.-4:00 p.m.	Exhibit Show
10:45 a.m.-12:15 p.m.	Late-Breaking Research Session
12:15-1:15 p.m.	Rosenthal Foundation Award Lecture
1:15-5:15 p.m.	Poster and Poster Discussion Sessions
1:30-2:30 p.m.	Cain Award Lecture
1:30-5:00 p.m.	Minisymposia
2:45-3:45 p.m.	Rhoads Award Lecture
4:00-6:30 p.m.	Symposia

## WEDNESDAY, APRIL 1, 1998

7:00 a.m.-2:00 p.m.	On-site Registration
7:00-8:00 a.m.	Meet-the-Expert Sunrise Sessions
7:30 a.m.-11:30 noon	Poster Discussion Sessions
8:00-10:30 a.m.	Symposia
8:00 a.m.-12:00 noon	Poster Sessions
8:15 a.m.-11:45 a.m.	Minisymposia
9:00 a.m.-12:00 noon	Exhibit Show
10:45 a.m.-12:00 noon	Controversy Sessions
12:00 noon-4:00 p.m.	Poster Discussion Sessions
12:15-3:45 p.m.	Minisymposia
12:30-3:00 p.m.	Symposia
4:00 p.m.	Annual Meeting Ends

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The word processing packages that we prefer are as follows:

MacWrite Microsoft Word (DOS, Windows, and Macintosh)	WordPerfect (DOS, Windows, and Macintosh) XyWrite (DOS and Windows)
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Also acceptable:

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