89th Annual Meeting

American Association for Cancer Research

March 28 – April 1, 1998
New Orleans, Louisiana

An Exciting Multidisciplinary Program for Laboratory and Clinical Cancer Researchers

In This Booklet:
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• Preliminary Program Information
• Information on Awards for Young Basic and Clinical Investigators
• AACR Membership Application Forms
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Emerging Concepts in Individual Cancer Susceptibility
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Organ-Site Specific Tumorigenesis: Basic Science and Clinical Aspects of breast and ovarian cancer
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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 opportu-
ty 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 uti-
lized 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 fos-
tering 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, attend-
ance 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 comprehen-
sive. 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 cat-
egory for their work or about the suitability of the
AACR meeting for their presentations.

• The categories are presented in an order that we feel bet-
ter 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 appro-
priate major category (e.g., Molecular Biology, Clinical
Investigations, Immunology) in which your work
belongs.

• Abstracts are more likely to be reviewed and scheduled
by the appropriate section of the Program Committee.
We anticipate that the result will be more coherent and
stimulating sessions of proffered papers.

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

• preliminary information on the opening plenary session,
symposia, "meet-the-expert" sunrise sessions, and
controversy sessions.

• the advance registration form

• information on travel to and hotel accommodations in
New Orleans

• employment register forms

• other important information on the meeting

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

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

Very truly yours,

Frank J. Rauscher III, Ph.D.
Program Chairperson
Authors who submit an abstract of a paper for consideration for presentation at the Annual Meeting of the American Association for Cancer Research (AACR) confirm that they have not previously published these data, that they have not previously presented them at a national scientific meeting, and that they are not planning to present or publish them prior to the dates of the AACR Annual Meeting. AACR policy states that the content of submitted abstracts is kept strictly confidential by the members of the Program Committee during review and pre-publication processing. After review of the abstract by the Program Committee, the PRESENTER will be notified about its acceptance for presentation. The PRESENTER of the abstract must be one of the authors of the abstract, and it is expected that he or she will be the first author. Only those abstracts that are deemed acceptable for presentation by the Program Committee will be published in the Proceedings of the American Association for Cancer Research, which has a planned publication date of February 1998.

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

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

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

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

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

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

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

Late-Breaking Research Session. The firm deadline for submission of abstracts for publication in the Proceedings of the American Association for Cancer Research and for presentation at one of the regular sessions at the annual meeting is October 28, 1997. In addition, the AACR will provide an opportunity for the presentation of a few definitive reports of timely and highly significant research findings that become available after the October 28 abstract deadline. The work to be presented must be of major novelty and importance, e.g., the characterization of a new gene in familial cancer or the discovery of a new diagnostic marker.

Complete instructions for submission of these abstracts will appear in a forthcoming AACR Annual Meeting announcement and in AACR journals in January 1998. The deadline for submission of abstracts for consideration for the Late-Breaking Research Session will be February 27, 1998.

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

SPONSORSHIP REGULATIONS
1. The SPONSOR must be a member of the Association in good standing. That is, an active, corresponding, or associate member must have paid his or her membership dues through 1997 by the time of the submission of the abstract in order to serve as the SPONSOR of one abstract for the upcoming annual meeting. As stated in the AACR By-Laws, honorary and emeritus members are exempt from the payment of dues; thus this regulation does not apply to them.

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

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

3. Each submitted abstract must carry the SPONSOR'S AACR Member Number. This number appears on the AACR...
Membership Card and below the member's name in the AACR Directory of Members. The SPONSOR must sign the abstract form.

4. A member or nonmember may be listed as a coauthor on more than one abstract, provided that each abstract has a different member SPONSOR.

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

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

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

INSTRUCTIONS FOR PREPARATION AND SUBMISSION OF ABSTRACTS

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

CONTENT OF ABSTRACTS

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

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

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

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

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

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

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

GENERAL INSTRUCTIONS FOR SUBMISSION OF ABSTRACTS

The AACR will not accept abstracts for the 1998 Annual Meeting via Internet submission or by fax or e-mail delivery. Abstracts must be submitted on the official 1998 AACR abstract form. Two abstract forms are enclosed. Please pass one on to a colleague if you do not need it for your own use. The blank form may also be photocopied for use by others. Additional abstract forms may be obtained by calling or by writing to the AACR Office. The blank form is also available as a PDF document that can be downloaded and printed from the AACR Website: <http://www.aacr.org/meeting.htm>. Instructions for completing the abstract form are given on the following pages.

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

The accuracy of the submitted abstract is the responsibility of the authors. Every effort will be made to reproduce the abstract exactly as submitted on the abstract form. Errors made on your submitted abstract are therefore likely to appear in print. Careful preparation and proofreading prior to submission are essential. NOTE: AACR does not assume responsibility for errors in conversion of customized software, newly released software, or special characters.
A Temporary Abstract Number will be assigned to your abstract when it arrives at the AACR Office. This number will be listed on the card that is returned to you acknowledging receipt of your abstract. Please reference the Temporary Abstract Number in all subsequent communications with the AACR Office.

**ABSTRACT FORM**

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

1. **Category and Subclassification.** Choose ONLY ONE category and subclassification. Indicate the category and subclassification in which your paper belongs by typing the appropriate five-character code in the blocks provided. A list of codes for the categories and subclassifications appears on Pages 8-10 of this booklet. The list is also available at the AACR Website. These designations will serve as a guide to the Program Committee in the grouping of abstracts but will not necessarily be the actual titles of scientific sessions to be held at the annual meeting.

2. **Sponsor of the Abstract.** Type the AACR member number, name, address, telephone and FAX numbers, and e-mail address of the member using his or her membership privilege to SPONSOR the abstract. (Member numbers can be found on an individual's membership card and in the AACR Directory of Members.) The SPONSOR, who must be a member of the AACR in good standing through 1997, may SPONSOR only one abstract. (See Page 3 for Sponsorship Regulations.)

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

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

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

   A. The AACR is very grateful to the growing number of sponsors who help several hundred young investigators attend the annual meeting each year. Starting in 1998, ITO EN, Ltd. is underwriting a major enhancement of the AACR’s program of travel grants for both American and International Scientists, i.e., an expanded number of awards for young investigators from Asia. ITO EN has already made a commitment to continue its very generous support of this new program through 2002.

   Submission of an abstract by the deadline of October 28 is an absolute prerequisite for receipt of any AACR travel award. Qualified scientists from all countries are therefore encouraged to submit abstracts and to indicate their eligibility for these awards by observing the following instructions: Indicate whether the PRESENTER of the abstract is a medical student, graduate student, physician in training, or postdoctoral fellow from an academic or governmental organization. PRESENTERS who meet these requirements and who are first authors on abstracts given high ratings by the Program Committee for scientific merit may be candidates for a young investigator award. If a PRESENTER is eligible based on the above criteria and is under consideration, a letter confirming his or her status, submitted on the official letterhead of the PRESENTER's institution and signed by the registrar, dean, or department head of that institution, will be requested at a later date.

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

   Although preference will be shown to authors of abstracts that have been accepted for presentation at the 1998 AACR Annual Meeting, this is not a requirement for the award. Awardees will be selected on the basis of their qualifications, references from mentors, and an estimation of the potential professional benefit to the awardee. 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.
FORMATTING OF ABSTRACTS

Abstracts will be reproduced for publication either by typesetting from the paper copy of the abstract form or, if possible, by using the floppy disk provided by the author (see below for instructions on supplying a floppy disk). We will not accept disks that are unaccompanied by the required paper copies of the official abstract form. The disk file must match the accompanying paper version of the abstract. If we discover any discrepancy, the paper copy will be considered the final version.

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

Only abstracts submitted on the official 1998 abstract form will be considered by the Program Committee. Before typing the abstract on the form, read all instructions and examine the sample abstract thoroughly. Prepare your abstract in accordance with the approved format shown in the sample abstract (Page 12). Please note in particular the following regulations concerning format:

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

Type: Abstracts may be printed using laser or ink-jet printers with type no smaller than 10-point. Abstracts may also be prepared using typewriters or daisy-wheel printers with a sharp black ribbon and a printing element no smaller than 12-pitch (elite). Do not use dot matrix printers. Symbols and special characters should not be created graphically. Instead, use the character set provided in your word processor. Any symbols that must be drawn by hand should be drawn with black ink.

Title: Use boldface type for the title if possible. The first line of the title should be flush with the left margin of the abstract box. Capitalize only the first letter of the first word; type the rest in lower case except where lower case is incorrect, e.g., "DNA." Avoid nonstandard abbreviations in the title. (See Cancer Research Instructions for Authors, Vol. 57: 186-192, 1997, for a list of standard abbreviations.) Type a period at the end of the title.

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

Affiliations: List affiliations as a group at the end of the list of authors' names. For each affiliation, type the name of the institution, city, state in abbreviated form, zip code, and country. We prefer that you do not key the affiliation of each author to his/her name. However, if you are obligated to do so, do not use footnote numbers or symbols after an author's name to refer to his/her affiliation. Instead, put the author's initials in parentheses at the end of his/her affiliation.

Text: Begin the text on a separate line after the affiliations, flush with the left margin of the abstract box. Type the text single spaced in one paragraph. Nonstandard abbreviations are permitted in the text of the abstract if they appear in parentheses immediately after the term being abbreviated at the first usage of that term in the text. TABLES, CHARTS, ILLUSTRATIONS, HALFTONES, AND COLOR PHOTOGRAPHS ARE NOT ACCEPTABLE AS PART OF YOUR ABSTRACT AND SHOULD NOT BE SUBMITTED.

SUBMITTING A COPY OF THE ABSTRACT ON FLOPPY DISK

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

SUBMIT ONLY ONE ABSTRACT PER DISK!

Only one abstract per disk will be handled as a submission; any others on that disk will be ignored.

The following is a list of acceptable word processing packages in which to prepare the disk file of the abstract. Please do not convert your file to one of these formats from other word processors; instead, create your file in one of these programs:

Macintosh: MS Word 4.0, 5.0-5.1, 6.0
WordPerfect 1.0, 2.0, 3.0
MacWrite Pro
Rich Text Format

Windows: MS Word 2.0, 6.0, 7.0, '97
WordPerfect 5.0-5.2, 6.0, 7.0
XyWrite

DOS: MS Word 5.0
WordPerfect 4.2, 5.0-5.2, 6.0
Rich Text Format
XyWrite

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. We will not use a disk if we receive it separately from the paper submission of the abstract form.

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.

The abstract on disk must meet all the format requirements specified for paper abstract submissions and must fit within the size limits delineated on the abstract form; that is, able to fit within a space 5 inches (12.5 cm) wide x 4 inches (10 cm) high, single-spaced, in 10-point type. Symbols and special characters should not be created graphically. Instead, use the character set provided in your word processor. TABLES, CHARTS, ILLUSTRATIONS, HALFTONES, AND COLOR PHOTOGRAPHS ARE NOT ACCEPTABLE AS PART OF YOUR ABSTRACT AND SHOULD NOT BE SUBMITTED.

Type or print the following information on the outer label of the disk:

— abstract title
— name of the first author
— name of the disk file
— model of the computer used (e.g., IBM/PS2)
— operating system/version (e.g., DOS 3.3)
— word processing program/version (e.g., WordPerfect 5.0)

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### CLINICAL IMMUNOLOGY: BIOLOGICAL THERAPY

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| IM2-08 | Transplantation: control of rejection |
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| PT1-02 | Biochemical modifiers of the therapeutic index |
| PT1-03 | Combination chemotherapy |
| PT1-04 | Differentiation therapy |
| PT1-05 | Drug design: rational/empirical |
| PT1-06 | Combinatorial chemistry-based drug design |
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### MECHANISMS OF DRUG ACTION

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| PT2-02 | Drug transport and metabolism |
| PT2-03 | Non-P-glycoprotein multidrug resistance |
| PT2-04 | P-glycoprotein structure and function |
| PT2-05 | Reversal of multidrug resistance (preclinical) |
| PT2-06 | Secondary targets |
| PT2-07 | Other |

| PT3 | Drug Resistance II |
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| PT3-02 | Glutathione metabolism |
| PT3-03 | Natural products, synthetic drugs, and nucleotide analogs |
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### PHARMACODYNAMICS AND PRECLINICAL TOXICOLOGY

| PT5 | Pharmacology and Preclinical Toxicology |
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### THERAPEUTIC AGENTS II (BIOLLOGICAL APPROACHES)

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| PT7-05 | Growth factor receptors and other surface antigens as targets for therapy |
| PT7-06 | Oncogenes, tumor suppressor genes, and gene products as targets for therapy |
| PT7-07 | Protein kinases and phosphatases as targets for therapy |

### RADIATION BIOLOGY/RADIATION ONCOLOGY

| RR | RADIATION BIOLOGY/RADIATION ONCOLOGY |
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| RR1-01 | Experimental Radiobiology |
| RR1-02 | Radiation-induced gene expression |
| RR1-03 | Cell cycle, differentiation, and apoptosis in radiation responses |
| RR1-04 | Cyto genetic responses to radiation |
| RR1-05 | DNA damage, mutagenesis, and repair |
| RR1-06 | Experimental radiotherapeutics |
| RR1-07 | Genetic and epigenetic control of radiosensitivity |
| RR1-08 | Hyperthermia |
| RR1-09 | Membrane targets for radiation |
| RR1-10 | Molecular mechanisms/radiation-induced gene expression |
| RR1-11 | Radiobiology |
| RR1-12 | Photodynamic therapy |
| RR1-13 | Predictive assays for radiation sensitivity |
| RR1-14 | Oncogenes and tumor suppressor genes in radiation responses |
| RR1-15 | Radiation-induced biochemical alterations: functional and molecular mechanisms |
| RR1-16 | Radiation-induced transformation and carcinogenesis |
| RR1-17 | Radiation resistance |
| RR1-18 | Radiolabelled antibodies in diagnosis and localization |
| RR1-19 | Radioprotectors and radiosensitizers |
| RR1-20 | Tumor oxygenation and modification |
| RR1-21 | Other |

### RADIATION ONCOLOGY

| RR2 | RADIATION ONCOLOGY |
| RR2-01 | Clinical radiotherapeutic studies |
| RR2-02 | Combination therapies |
| RR2-03 | Drug-radiation interactions |
| RR2-04 | Modification of radiation sensitivity and injury |
| RR2-05 | Radiation-induced late effects - second cancers |
| RR2-06 | Radiation resistance |
| RR2-07 | Radiolabelled antibodies in diagnosis and localization |
| RR2-08 | Radioprotectors and radiosensitizers |
| RR2-09 | Other |
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☐ ☐ Membership on an entity’s Board of Directors or its advisory committees.

IF YOU ANSWERED YES TO ANY OF THESE QUESTIONS, PLEASE DESCRIBE THE NATURE OF THE INTEREST AND/OR RELATIONSHIP, IDENTIFYING THE RELEVANT COMMERCIAL ENTITY (attach additional sheets as required).

__________________________________________________________________________

__________________________________________________________________________

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

Submitted by: ___________________________ Date: ___________________________

Signature of Presenter
ABSTRACT FORM

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

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- 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% to 20% of 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.

1. Category and Subclassification (see Pages 8-10): Type the five-character code in the blanks provided. For example, B J L P 3 - 0 4

2. Abstract is SPONSORED by: 2309 Member No. (See Directory of Members for Member No.)
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   (Please Print)
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   900 South Ashland
   Chicago, Illinois, 60607 Zip/Postal Code
   312-996-3486 Telephone No.
   312-413-8358 FAX No.
   roninson@uic.edu E-Mail Address

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5. Eligibility for Young Investigator Awards (American and International)
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   □ B. The PRESENTER meets the criteria in Box A above and is also a minority scientist as defined by the National Cancer Institute (see Page 5).

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

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

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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 a fee of US$40 which will be billed to the SPONSOR.
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. prior notice of small, focused meetings in the AACR's exciting series of Special Conferences in Cancer Research;
6. substantially reduced registration rates for Special Conferences;
7. opportunities for participation in AACR meetings in North America and abroad with other scientific societies around the world;
8. receipt of AACR Newsletters and other important announcements;
9. early notification of and reduced rates for participation in the AACR Employment Register;
10. an up-to-date Membership Directory of over 13,000 member researchers in the cancer field;
11. the professional benefits of AACR's public education activities concerning funding for cancer research and press coverage of the latest research findings;
12. the opportunity to participate in three Summer Workshops that foster knowledge in the cancer field for young investigators;
13. the facilitation of informal scientific exchange with leading researchers in the cancer field; and
14. many more ongoing benefits.

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

Corresponding membership is open to persons who are not residents of the Americas. The qualifications for corresponding membership are the same as those indicated above for active membership. Visiting scientists from outside the Americas who intend to return to their countries of origin by the anticipated time of election should apply for corresponding membership. All other visiting scientists should apply for active membership and transfer to corresponding status upon leaving the Americas.

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

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

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

AACR Membership Services Department
American Association for Cancer Research
Public Ledger Building, Suite 826
150 S. Independence Mall West
Philadelphia, PA 19106-3483
Phone: 215/440-9300
Fax: 215/440-9412
E-mail: 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
**Application for Active or Corresponding Membership**

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<tr>
<th>NAME OF CANDIDATE:</th>
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**PRESENT POSITION/TITLE:**

**INSTITUTIONAL AFFILIATION:**

**INSTITUTIONAL ADDRESS:**

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**TELEPHONE NUMBER:**

**FAX NUMBER:**

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

**E-MAIL ADDRESS:**

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

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

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

---

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

---

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

---

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

- [ ] Active Membership
- [ ] Corresponding Membership

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

**CANDIDATE SECONDED BY**: (Please print)

**STATEMENT OF SUPPORT**

Instead of submitting letters of recommendation, either the nominator or the seconder or both may complete the following section:
I acknowledge by signing this statement of support, that this candidate adheres to accepted ethical scientific standards and has or will make a long-term contribution to cancer research.

Signature of Nominator: 

Date:

Signature of Seconder: 

Date:

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

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

(This form may be reproduced.)
Guidelines for Application for Associate Membership

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 confer 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 benefiting associate members and that presents their concerns to the AACR Board of Directors;

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

7. prefered 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: acr@acr.org

RESPONSIBILITIES OF MEMBERSHIP

Associate members must pay annual dues in an amount to be determined by the AACR Board of Directors. Dues for 1997 have been set at $45 per year for residents of the Americas and $55 for residents of other countries. If an application is submitted by August 31, the accompanying dues payment will be credited to the current year. Candidates submitting applications between September 1 and December 31 may indicate whether they wish their dues payments credited to the current or forthcoming year. Candidates should be aware, however, that associate members may sponsor an abstract for the annual meeting only if their dues for the current year are paid. For example, an associate member submitting an abstract in October 1997 for the forthcoming annual meeting must have paid dues for 1997. Any newly elected associate members of the AACR who have already purchased subscriptions to Cancer Research, Clinical Cancer Research, Cell Growth & Differentiation, or Cancer Epidemiology, Biomarkers & Prevention at the higher, nonmember rate will receive a refund for the unused portion of that subscription upon receipt of their payment for a member's subscription.

Each Fall the AACR will send to current associate members an invoice for dues for the forthcoming year. Payment of this invoice must be accompanied by a statement signed by the associate member's registrar, dean, or department head, verifying the member's current academic status. The Association's By-Laws state that dues are payable for each year in advance by January 1 of the year to which they should be applied. An individual may be an associate member for a maximum of five years. Each year in which an individual pays dues will count as one full year of associate membership. Thus, an associate member who pays dues for 1997 may retain associate membership until December 31, 2001. The Board of Directors may terminate the membership of an associate member whose dues are in arrears for two years.

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

Application for Associate Membership

NAME OF CANDIDATE:

DATE OF BIRTH:

INSTITUTIONAL AFFILIATION:

INSTITUTIONAL ADDRESS:

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

TELEPHONE NUMBER:

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

FAX NUMBER:

E-MAIL ADDRESS:

PRESENT ACADEMIC STATUS/TITLE (Please check only one):

(Graduate Student) (Medical Student) (Physician in Training) (Postdoctoral Fellow)

GENDER: ☐ Male ☐ Female

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)

(Predclinical Pharmacology and Virology) (Other) (Please specify)

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

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

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

CANDIDATE NOMINATED BY:

(Please print)

SIGNATURES

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

Signature of Candidate:

Date:

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

Signature of Nominator:

Date:

Submit three copies of this form. At least one copy must contain the original signatures of the candidate and the nominator. In addition, submit one copy of your curriculum vitae. Enclose a check in U.S. funds, made payable to AACR, Inc., and drawn on a U.S. bank for one year’s dues. For 1997 dues are $45 for Associate Members residing in the Americas and $55 for residents of other countries.

Check one of the following boxes only if this form is being submitted between September 1 and December 31:

☐ 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.

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PRICES ARE LISTED BEFORE PROGRAM TITLES.

**CAN 700** (3 cassettes, $34.50) Public Session: Progress and New Hope in the Fight Against Cancer: A Public Forum Highlighting the Latest Discoveries

**CAN 701** (2 cassettes, $23) Educational Session 2: Cancer Research in the Post-Genome Era

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**CAN 704** (2 cassettes, $23) Methods Workshop 3: Protein-Protein Interactions

**CAN 705** (2 cassettes, $23) Educational Session 4: Nonviral Delivery Systems for Gene Therapy

**CAN 706** (2 cassettes, $23) Educational Session 5: The Biology of Cancer Metastasis

**CAN 707** (2 cassettes, $23) Educational Session 1: Genetics and Biochemistry of Programmed Cell Death

**CAN 708** (2 cassettes, $23) Educational Session 3: Telomerase, Cellular Senescence, and Cancer

**CAN 709** (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Molecular Approaches to the Management of Ovarian Cancer (Robert C. Bast, Jr.)

**CAN 710** (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Transcriptional Models and Drug Discovery (William G. Kaelin, Jr.)

**CAN 711** (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Research Issues and Special Populations (Oss W. Bransley)

**CAN 712** (1 cassette, $11.50) Meet the Expert Sunrise Session: Cancer Vaccines (David P. Carbone)

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**CAN 716** (2 cassettes, $23) Plenary Session: Genetic Predisposition to Cancer

**CAN 717** (1 cassette, $11.50) Presentation by the Director of the National Cancer Institute (Richard D. Klausner)

**CAN 718** (1 cassette, $11.50) Thirty-Seventh G.H.A. Clowes Memorial Award Lecture: “bc-2 Gene Family and the Regulation of Cell Death” (Stanley J. Karmeyer)

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**CAN 720** (3 cassettes, $34.50) Minisymposium Radiobiology/Radiation Oncology 2: Genetic Determinants of Cellular Response to Radiation

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**CAN 722** (2 cassettes, $23) Minisymposium Epidemiology/Prevention 2: Genetic Susceptibility

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**CAN 725** (2 cassettes, $23) Symposium 3: New Techniques for Molecular Diagnostics

**CAN 726** (2 cassettes, $23) Symposium 4: Behavioral and Psychosocial Methods in Cancer Epidemiology and Control

**CAN 727** (1 cassette, $11.50) Second Joseph H. Burchenal AACR Clinical Research Award: “Antigen Receptors as Targets for Immunotherapy of Lymphoma” (Ronald Levy)

**CAN 728** (2 cassettes, $23) Minority Issues Committee Carers Symposium

**CAN 729** (1 cassette, $11.50) Meet-the-Expert Sunrise Session: Advances in the Management of AIDS-related Malignancies (Elain G. Fiegel)

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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

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

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

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

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

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

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

AAPR members will receive brochures on the above conferences as soon as they are available. Nonmembers should call or write:
American Association for Cancer Research
Public Ledger Building, Suite 826
150 South Independence Mall West
Philadelphia, PA 19106-3483
215-440-9300 • 215-440-9313 (FAX)
E-Mail: aacr@aacr.org
### SATURDAY, MARCH 28, 1998

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m.-1:30 p.m.</td>
<td>Associate Member Council Grant Writing Session</td>
</tr>
<tr>
<td>9:00 a.m.-8:00 p.m.</td>
<td>On-site Registration</td>
</tr>
<tr>
<td>10:00 a.m.-12:00 noon</td>
<td>Public Session</td>
</tr>
<tr>
<td>12:00 noon-6:30 p.m.</td>
<td>Educational Sessions</td>
</tr>
<tr>
<td>2:00-6:00 p.m.</td>
<td>Methods Workshops</td>
</tr>
<tr>
<td>6:30-8:00 p.m.</td>
<td>WICR Guest Lecture and Reception</td>
</tr>
<tr>
<td>8:00-10:00 p.m.</td>
<td>Opening Mixer</td>
</tr>
</tbody>
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### SUNDAY, MARCH 29, 1998

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

### MONDAY, MARCH 30, 1998

<table>
<thead>
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<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.-4:00 p.m.</td>
<td>On-site Registration</td>
</tr>
<tr>
<td>7:00-8:00 a.m.</td>
<td>Meet-the-Expert Sunrise Sessions</td>
</tr>
<tr>
<td>8:00-10:30 a.m.</td>
<td>Symposia</td>
</tr>
<tr>
<td>8:00 a.m.-12:00 noon</td>
<td>Poster and Poster Discussion Sessions</td>
</tr>
<tr>
<td>8:15-11:45 a.m.</td>
<td>Minisymposia</td>
</tr>
<tr>
<td>10:00 a.m.-4:00 p.m.</td>
<td>Exhibit Show</td>
</tr>
<tr>
<td>10:45 a.m.-12:00 noon</td>
<td>Controversy Sessions</td>
</tr>
<tr>
<td>12:00 noon-1:00 p.m.</td>
<td>AACR-Burchenal Award Lecture</td>
</tr>
<tr>
<td>1:00-2:15 p.m.</td>
<td>Controversy Session</td>
</tr>
<tr>
<td>1:00-5:00 p.m.</td>
<td>Poster and Poster Discussion Sessions</td>
</tr>
<tr>
<td>1:15-2:15 p.m.</td>
<td>AACR-American Cancer Society Award Lecture</td>
</tr>
<tr>
<td>1:30-5:00 p.m.</td>
<td>Minisymposia</td>
</tr>
<tr>
<td>2:30-5:00 p.m.</td>
<td>Symposia</td>
</tr>
<tr>
<td>5:15-6:30 p.m.</td>
<td>Annual Business Meeting of Members</td>
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### TUESDAY, MARCH 31, 1998

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

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

CELL AND TUMOR BIOLOGY
Phenotypic and Molecular Mechanisms of Preclinical and Clinical Therapeutics: A Strategic Focus
K. S. Neumann, Chairperson
Clinical Pharmacology
N. Kastan, Chairperson
Molecular and Preclinical Endocrinology: Receptors and Signal Transduction
S. Gudas, Chairperson
Clinical Endocrinology
C. Haber, Chairperson
MOLECULAR BIOLOGY
Molecular Genetics of Tumor Suppressor Genes and Oncogenes: A Strategic Focus
B. B. Baylin, Chairperson
MOLECULAR AND GENETIC MECHANISMS OF CANCER GROWTH AND METASTASIS
M. Matrisian, Chairperson
Cancer Research: A Strategic Focus
S. Gottesman, Chairperson
MOLECULAR and CELLULAR BASIS OF CANCEr
S. Rowinsky, Chairperson
MOLECULAR and CELL BIOLOGY
S. Olden, Chairperson
PREVENTION
Preclinical Prevention Studies: Markers and Mechanisms
W. Nelson, Chairperson
Clinical Prevention Studies
S. Lippman, Chairperson
CLINICAL RESEARCH
Phase I Clinical Trials
R. Capizzi, Chairperson
Phase II-III Clinical Trials
E. Rowinsky, Chairperson

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1997-98 AMERICAN ASSOCIATION FOR CANCER RESEARCH
AACR MINORITY SCHOLAR AWARDS IN CANCER RESEARCH
Supported by a generous grant from the Comprehensive Minority Biomedical Program
of the National Cancer Institute (NCI)

AACR Minority Scholar Awards in Cancer Research are offered to eligible minority
scientists wishing to attend the Annual Meeting and Special Conferences of the
American Association for Cancer Research (AACR). The awards are supported by a
generous grant from the Comprehensive Minority Biomedical Program of the National
Cancer Institute (NCI). Those eligible for these awards are graduate and medical
students, physicians-in-training, and postdoctoral students from minority groups
considered underrepresented in cancer research by the NCI, i.e., African Americans,
Hispanic Americans, Native Americans, Native Pacific Islanders, and Alaskan
Americans. Please contact the AACR for an application form. The deadline for
receipt of applications for participation in the 89th AACR Annual Meeting, March
28 - April 1, in New Orleans, LA, is December 1, 1997. Applications for Special
Conference awards are due approximately two months before the date of the meeting.
For Special Conferences only, minority faculty at the level of Instructor, Lecturer, or
Assistant Professor are also eligible.

For Further Information:
Ms. Robin E. Felder, Membership Development Coordinator
AMERICAN ASSOCIATION FOR CANCER RESEARCH
Public Ledger Building, Suite 826
150 South Independence Mall West
Philadelphia, PA 19106-3483
Telephone: (215) 440-9300
FAX: (215) 440-9313
Email: felder@aacr.org
http://www.aacr.org
Guidelines for Submitting Disks
to
American Association for Cancer Research Publications

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)

Also acceptable:

- Ability
- AmiPro
- A\textsuperscript{\textregistered} S-TEX
- Appleworks
- ArborTeX
- ArborText
- ClarisWorks WP
- CPT 8000
- CTOS
- Diablo
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- Duet
- Einstein
- Enable
- EXP
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- FullWrite
- GemWord Plus
- IBM Writing Assistant
- Interleaf
- LaTeX
- LaTeX
- Leading Edge
- Lotus Manuscript
- Lotus Write
- Mass 11
- MS Windows Write
- MS Works
- MS Works WP Mac
- Multimate
- Multimate Advantage
- Nisus (to ASCII file)
- Notewriter
- Obun
- OfficeWriter
- PC Write
- PFS First Choice
- Professional Write
- Q&A Write
- Quark XPress
- RagTime MS Works
- Rich Text Format
- RSG (to ASCII file)
- Signature
- SL\TeX
- SmartWhere
- SmartWrite II
- SoloWriter
- Sprint
- Stx
- SunWrite
- Symphony
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- TeX78
- Text EXECutive
- Textures
- Total Word
- Troff
- \mu\TeX
- Volkswriter
- VuWriter
- Wang OIS
- Wang WPS
- Window Works
- Windows Write
- WiziWord
- Wordstar
- Wordstar 2000
- WriteNow
- Xerox

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- FrameMaker
- PageMaker
- Ready, Set, Go
- Scientific Writer

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This form (both sides) may be reproduced.
The AACR-Pezcoller International Award for Cancer Research is given biennially to a scientist who has made a major scientific discovery in the field of cancer. The Pezcoller Foundation was established in 1982 by Professor Alessio Pezcoller, a dedicated Italian surgeon who has made important contributions to medicine during his career and who, through his foresight, vision, and generous gift in support of the formation of the Foundation, stimulated others to make significant advances in cancer research. Over the past decade the Pezcoller Foundation has given a major award for outstanding contributions to cancer and cancer-related biomedical science.

The American Association for Cancer Research (AACR) was founded in 1907 by eleven physicians and scientists dedicated to the conquest of cancer and now has over 13,000 members in more than 60 countries who are experts in basic, clinical, and translational cancer research. The AACR fulfills its mission - the communication of important scientific results - in a variety of forums including publications, meetings, and training and educational programs. Because of their joint commitment to scientific excellence in cancer research, the Foundation and the AACR have now agreed to collaborate on the presentation of this award. This will strengthen their already well-established relationship and facilitate international collaborations and interactions.

The awardee will be selected by an international Committee of AACR members appointed by the AACR President with the agreement of the Council of the Pezcoller Foundation. While normally the Award will be presented to a single investigator, in exceptional cases two individuals may be selected to share the award when their investigations have resulted in related prizeworthy work. The committee will make its selection solely on the basis of the awardee's scientific accomplishments without regard to race, gender, nationality, or religious or political views. The candidate will give an award lecture during the AACR Annual Meeting in New Orleans, USA (March 28-April 1, 1998) and will receive the award in a ceremony at the Foundation's headquarters in Trento, Italy, right after the annual meeting. The award consists of an honorarium of US$100,000 and a commemorative plaque.

The Foundation and the AACR are now soliciting nominations for the 1998 Award. Nominations can be made by any scientist who is now or has been affiliated with an institution engaged in cancer research. Institutions or organizations are not eligible for this award, and candidates may not nominate themselves.

There is no official application form for this award. The nomination package should consist of the following:

- the candidate's curriculum vitae
- an indication of the most important references in the candidate's curriculum vitae and list of publications
- a letter of recommendation in English (500 words, maximum) describing the candidate's major scientific achievements and explaining the impact of these achievements on progress in cancer research

Nominators are asked to maintain the confidentiality of the nomination process and to refrain from informing the candidate about the nomination.

The deadline for receipt of nominations by the AACR is September 30, 1997, for consideration for the 1998 Award. Questions about the nomination process should be directed to the AACR Office via FAX at (215) 440-9313 or Email at aacr@aacr.org. Nominators should submit the original plus 12 copies of their nominations to

Carlo M. Croce, M.D., Chairperson, Selection Committee
AACR-Pezcoller International Award for Cancer Research
c/o American Association for Cancer Research, Inc.
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PCR ELISA Kits Simplify PCR Analysis and Quantification

Boehringer Mannheim kits provide an ideal system for genetic analysis and quantitative PCR

Method employs a standard ELISA procedure and a sequence-specific capture probe

The PCR ELISA system uses technology very similar to a standard microplate immunoassay. As detailed in Figure 1, following the PCR reaction the products are captured by an oligonucleotide probe, immobilized in a microtiter plate well, and detected using peroxidase-conjugated antibodies. The results are read using a standard microtiter plate reader.

The PCR ELISA system provides several technical advantages compared to traditional PCR analysis methods. First, the sensitivity of ELISA detection of PCR products is 10–100 fold greater than fluorescent staining on agarose gels. Second, the use of a capture probe provides verification of the authenticity of the PCR reaction product. And third, the use of an ELISA format affords rapid analysis of multiple PCR reactions simultaneously.

Capture probe technology allows precise characterization of the sequence of PCR products

Many current PCR applications such as HLA genotyping, the analysis of microorganisms in biological samples, and the detection of specific gene mutations require precise verification of PCR product specificity. Because the PCR ELISA system utilizes a sequence-specific capture probe, it can easily be adapted to these protocols by simply varying the nucleotide sequence of the capture probe to correspond to the desired target sequence. Discrimination of point mutations can be readily accomplished by modifying the stringency of the probe hybridization and washings conditions (Figure 2).

Quantitative PCR assays are simple and affordable

Quantitative PCR studies require the analysis of multiple PCR reactions. Traditional methods for quantitative PCR analysis are laborious or involve the purchase of complicated expensive equipment. Boehringer Mannheim’s PCR ELISA system provides a simple affordable alternative. The PCR ELISA system allows multiple samples to be processed in parallel in standard 96-well microtiter plates. Multichannel pipettors and a standard microplate reader is all that is required to obtain accurate reliable quantitative PCR results. If fewer than 96 wells are required, the microtiter plates can be readily separated into 8-well strips to allow for economical use of the kit components.

A complete system of PCR ELISA kits is now available

Three kits comprising the PCR ELISA system are available from Boehringer Mannheim. Choose one of two labeling kits, in combination with the PCR ELISA Detection Kit, to fit the needs of your experiments (Table 1). Order the PCR ELISA system from your local Boehringer Mannheim representative or, for more information, visit our internet web site at http://biochem.boehringer-mannheim.com.

<table>
<thead>
<tr>
<th>Product</th>
<th>Cat. No.</th>
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<tbody>
<tr>
<td>PCR ELISA (DIG Labeling)*</td>
<td>1 636 120</td>
</tr>
<tr>
<td>PCR ELISA DIG Labeling*</td>
<td>1 835 297</td>
</tr>
<tr>
<td>PCR ELISA (DIG Detection)*</td>
<td>1 636 111</td>
</tr>
</tbody>
</table>

Table 1.

* This product is accompanied by a limited license to use it in the Polymerase Chain Reaction (PCR) process for life science research in conjunction with a thermal cycler whose use in the automated performance of the PCR process is covered by the up-front license fee, either by payment to Perkin-Elmer or as purchased, i.e., an authorized thermal cycler.

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