

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. 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 American Medical Association, 535 North Dearborn Street, Chicago, IL 60610.

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 directly to Dr. Pelayo Correa, Editor-in-Chief. 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.

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 J. 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 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.

The complete expense of reproducing color photographs will be charged to the author. 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. Authors will be charged for all changes in proof not due to printer's errors. Each author's alteration in any line of text costs approximately \$6.10. Lengthy insertions of entire sentences or paragraphs are billed at different rates depending upon the complexity of the alterations.

Typesetting Manuscripts from Computer Disks

Cancer Epidemiology, Biomarkers & Prevention welcomes 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:

Dr. Pelayo Correa, Editor-in-Chief, CEBP, Department of Pathology, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112-1393. Telephones: (504)529-2848; (504)568-6035; FAX: (504)529-2849.

Or:

Publications Department, American Association for Cancer Research, Public Ledger Building, 150 South Independence Mall West, Suite 816, Philadelphia, PA 19106-3483. Telephone: (215)440-9300; FAX: (215)440-9355.

THE SURGERY BRANCH, NATIONAL CANCER INSTITUTE, NIH, IS SEEKING
PATIENTS FOR ONGOING CLINICAL TREATMENT PROGRAMS.

PATIENTS WITH THE FOLLOWING MALIGNANCIES
ARE BEING TREATED UNDER COMBINED MODALITY OR INNOVATIVE
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- METASTATIC MELANOMA AND KIDNEY CANCER •
- STAGE II OR LOCALLY ADVANCED BREAST CANCER •
- METASTATIC COLORECTAL CANCER TO THE LIVER •
- LOCOREGIONAL GASTRIC OR PANCREATIC CANCER •
- MESOTHELIOMA, PULMONARY METASTASES,
STAGE III A, B LUNG CANCER OR ESOPHAGEAL CANCER •
- LOCALIZED SOFT TISSUE SARCOMAS •
- PERITONEAL CARCINOMATOSIS •

CARE FOR ALL PATIENTS IS PROVIDED AT THE CLINICAL CENTER, NIH,
BETHESDA, MARYLAND.

FOR MORE INFORMATION ON CANCER PROGRAMS, PLEASE CALL

(301) 496-1533

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The logo for the National Cancer Institute, featuring the words "NATIONAL", "CANCER", and "INSTITUTE" stacked vertically in a serif font. A thick black horizontal bar is positioned below the word "INSTITUTE".

A Public Service Announcement Courtesy of this Publication



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 10,000 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. an advance copy of the Program and *Proceedings of the American Association for Cancer Research* pertaining to each annual meeting;
3. reduced registration rates at annual meetings;
4. priority notice of small, focussed meetings in the AACR's exciting series of Special Conferences in Cancer Research;
5. reduced registration rates for Special Conferences;
6. opportunities for participation in AACR meetings in North America and abroad with other scientific societies around the world;
7. receipt of AACR Newsletters and other important announcements;
8. early notification of and reduced rates for participation in the AACR Employment Register;
9. an up-to-date Membership Directory of thousands of researchers in the cancer field;
10. the professional benefits of AACR's public education activities concerning funding for cancer research and press coverage of the latest research findings;
11. participation in Summer Workshops that foster networking opportunities and science education for young investigators; and
12. many more ongoing benefits.

QUALIFICATIONS FOR MEMBERSHIP

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

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

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

PROCEDURES FOR APPLICATION

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

applications for corresponding membership. Candidates will be notified according to the following schedule:

<u>Receipt of Application in AACR Office</u>	<u>Notification of Candidate</u>
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 supply the responses requested at the bottom of the application form in the section entitled "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 supply the responses requested at the bottom of the application form in the section entitled "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:

American Association for Cancer Research
Public Ledger Building, Suite 816
150 S. Independence Mall West
Philadelphia, PA 19106-3483
Phone: 215/440-9300
FAX: 215-440-9313

RESPONSIBILITIES OF MEMBERSHIP

Candidates should be aware of the following responsibilities of membership in the AACR. Active members must pay annual dues. In 1995 annual dues for active members are \$160, \$95 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 (\$80 in 1995) 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
Executive Director



AMERICAN ASSOCIATION FOR CANCER RESEARCH

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 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 paper 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. 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* which contains abstracts of all papers being presented at each annual meeting;
3. the privilege of registering for the annual meeting at the low student rate (This rate is otherwise available only to predoctoral students.);
4. preferred access to the AACR Employment Register;
5. optional subscriptions to the Association's high-quality journals *Cancer Research*, *Cell Growth & Differentiation*, *Cancer Epidemiology, Biomarkers & Prevention*, and *Clinical Cancer Research* at reduced member rates;
6. priority notification of events in the AACR's series of special conferences on timely subjects in the field;
7. reduced registration rates at special conferences;
8. the receipt of AACR newsletters, meeting announcements, and an up-to-date membership directory; and
9. 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. The application form 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 1994 are \$30 for associate members residing in the Americas and \$40 for residents of other countries. For 1995 these rates are \$35 and \$45, respectively. 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:

American Association for Cancer Research
Public Ledger Building, Suite 816
150 S. Independence Mall West
Philadelphia, PA 19106-3483
215/440-9300

RESPONSIBILITIES OF MEMBERSHIP

Associate members must pay annual dues in an amount to be determined by the AACR Board of Directors. Dues for 1994 have been set at \$30 per year for residents of the Americas and \$40 for residents of other countries. For 1995 these rates are \$35 and \$45, respectively. 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 1994 for the forthcoming annual meeting must have paid dues for 1994. Any newly elected associate members of the AACR who have already purchased subscriptions to *Cancer Research*, *Cell Growth & Differentiation*, *Cancer Epidemiology, Biomarkers & Prevention*, and *Clinical Cancer Research* 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.

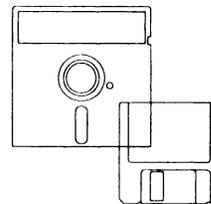
Each Fall the AACR will send to current associate members an invoice for dues for the forthcoming year. Payment of this invoice must be accompanied by a statement signed by the associate member's current registrar, dean, or department head, verifying the member's current academic status. The Association's 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 1994 may retain associate membership until December 31, 1998. The Board of Directors may terminate the membership of an associate member whose dues are in arrears for two years.

Margaret Foti
Executive Director



American Association for Cancer Research

1995 Annual Meeting Program on Diskettes
Toronto, Ontario, Canada • March 18-22, 1995



The Program of the 1995 Annual Meeting of the American Association for Cancer Research is available on diskettes for either IBM PC and compatible or Macintosh computers.

The computerized AACR Meeting Program provides abstract numbers, titles, author names, dates, times, and locations of scheduled presentations. It includes a modified version of the powerful search software produced by Research Information Systems, Inc., for *Reference Update*, a microcomputer-based reference retrieval service. Using this software, you can:

- Define search strategies with any combination of author names, words, phrases, and session titles
- Quickly search through more than 3900 presentations
- View on the computer screen all the events that interest you
- Print a personal meeting itinerary that "flags" potential scheduling conflicts

The price per set of diskettes is US\$15/C\$22.

Diskettes may be purchased onsite at the Publication Sales desk in the Registration Area of the Metro Toronto Convention Centre during registration hours. Demonstrations of the diskettes will be given in the Exhibit Level Lobby.

After the meeting, diskettes may be ordered from the American Association for Cancer Research, Suite 816, 150 South Independence Mall West, Philadelphia, PA 19106-3483. Payment by check payable to AACR, in US\$ drawn on a US bank, must accompany your order. Please specify Macintosh or IBM PC and compatible (5¼" or 3½") format.

EPIDEMIOLOGISTS
FACULTY and POST-DOCTORAL RESEARCH POSITIONS
UNIVERSITY OF PITTSBURGH SCHOOL OF MEDICINE

The Department of Family Medicine and Clinical Epidemiology is seeking an Assistant Professor (tenure-track) and a Post-Doctoral Researcher to join a group with interests in genetic and molecular epidemiology, the epidemiology of the lymphomas, childhood cancers, lung cancer, and birth defects, contraceptive and reproductive epidemiology, and viruses and human cancers.

Requirements for the Assistant Professor are 1) a Ph.D. in Epidemiology or 2) an M.D. with a masters degree in Epidemiology and 3) at least two years of post-doctoral research experience. Teaching experience also is desirable.

Requirements for the Post-Doctoral Researcher position are 1) a Ph.D. in Epidemiology or 2) an M.D. with a masters degree in Epidemiology.

Interested applicants should submit a letter of interest, curriculum vitae, and a list of at least three references to:

Ann G. Schwartz, Ph.D., M.P.H.
Department of Family Medicine and Clinical Epidemiology
School of Medicine, University of Pittsburgh
M200 Scaife Hall
Pittsburgh, PA 15261

The University of Pittsburgh is an Equal Opportunity, Affirmative Action Institution.

**EMPLOYMENT REGISTER OF
THE AMERICAN ASSOCIATION
FOR CANCER RESEARCH
(AACR)**

***An Important Listing of Available
Positions and Candidates in All
Disciplines of Cancer Research***

- Publication of Position and Candidate Advertisements in *Cancer Research* and the *Proceedings of the American Association for Cancer Research*
- Arrangement of Interviews at the AACR Annual Meeting in Toronto, Ontario, Canada (March 18-22, 1995)
- For forms and information:
Employment Register
American Association for Cancer Research
Public Ledger Building, Suite 816
150 S. Independence Mall West
Philadelphia, PA 19106-3483
Telephone: (215) 440-9300
FAX: (215) 440-9313

**AMERICAN ASSOCIATION FOR CANCER
RESEARCH (AACR)**

***SPECIAL OPPORTUNITIES FOR YOUNG
INVESTIGATORS***

The AACR is a professional society of over 10,000 scientists and physicians involved in cancer research. Special opportunities for young investigators include:

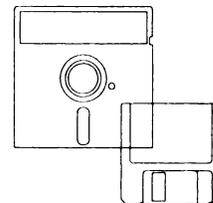
- **Associate Membership** conferring almost all of the benefits of regular membership at reduced rates
- **Employment Register** listing available positions and candidates in all subdisciplines of cancer research. Listings appear in several issues of *Cancer Research*, and interviews are arranged at the AACR Annual Meeting (Toronto, Ontario, Canada, March 18-22, 1995)
- **Travel Grants** to the Annual Meeting and AACR Special Conferences
- **Mentorship Program** and **Special Travel Awards** for NCI-designated minority scientists

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Four Essential Journals from the AACR

Priority reading for over 50 years – cited more than any other journal in its field

CANCER RESEARCH

Vol. 55, 1995 (24 issues)

ISSN 0008-5472

Editor-in-Chief:

Carlo M. Croce, M.D.

- State-of-the-art laboratory and clinical investigations
- Advances in Brief
- Selected review articles
- *Proceedings of the American Association for Cancer Research*: annual issue of research abstracts

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Institutions: \$495*; Outside U.S.: \$575*

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A major resource on the molecular biology of cancer

CELL GROWTH & DIFFERENTIATION

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ISSN 1044-9523

Editor-in-Chief:

George F. Vande Woude, Ph.D.

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- Research Capsules
- Viewpoints

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Institutions: \$195; Outside U.S.: \$215

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Vol. 4, 1995 (8 issues)

ISSN 1055-9965

Editor-in-Chief:

Pelayo Correa, M.D.

- Original research on causes and prevention of cancer in humans
- Invited editorials
- Selected review articles
- Short communications
- Meeting reports

Individual nonmembers: \$85

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Vol. 1, 1995 (12 issues)

ISSN 1078-0432

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John Mendelsohn, M.D.

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- Advances in Brief
- Minireviews
- Controversies in Clinical Cancer Research

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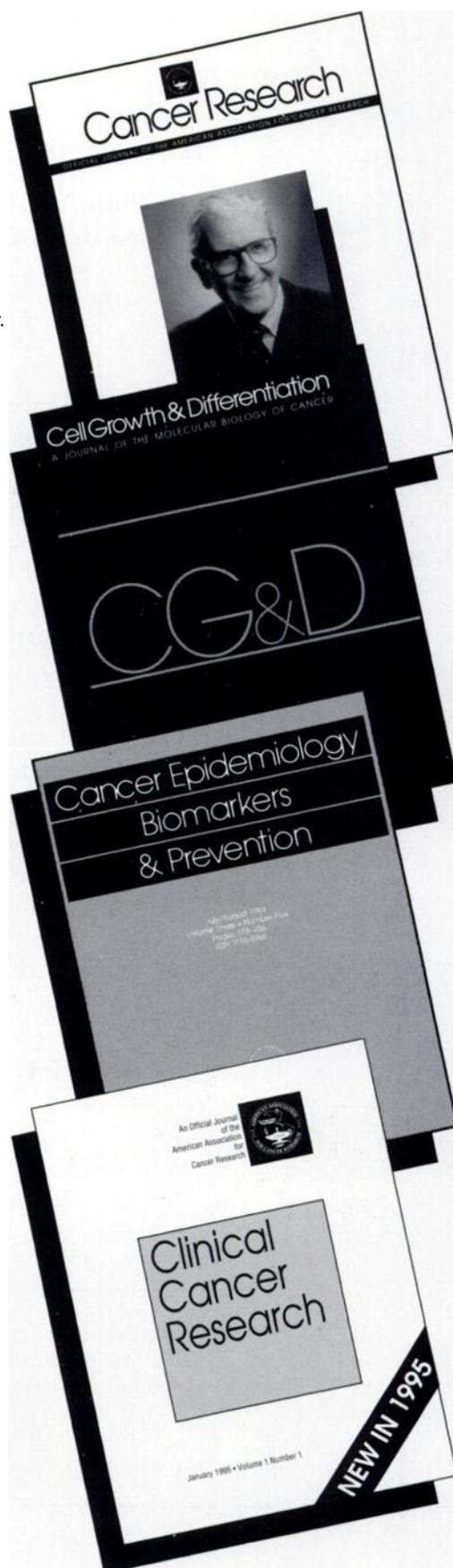
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The American Association for Cancer Research Presents

Molecular Biology in Clinical Oncology: A Workshop

An intensive, one-week summer workshop on molecular biology designed for clinical oncologists in training or in their early academic careers.

June 30-July 6, 1995
The Given Institute
Aspen, Colorado

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STEPHEN H. FRIEND
Fred Hutchinson Cancer
Research Center
Seattle, WA

L. MICHAEL GLODÉ
University of Colorado School
of Medicine
Denver, CO

JENNIFER A. PIETENPOL
Vanderbilt University
School of Medicine
Nashville, TN

- Lectures by leading experts on molecular biology concepts and the latest developments in molecular oncology such as gene therapy, oncogenes and growth factors, tumor suppressor genes, fusion proteins, genetic mutations, antisense, metastasis, and drug resistance.
- Small group laboratory sessions to demonstrate the important experimental techniques utilized in molecular biology.
- A workshop syllabus containing relevant published papers, references to key articles in the literature, and details on important laboratory procedures.
- Financial support for participants who are physicians in training or oncology fellows.
- Category I CME credits through the University of Colorado School of Medicine.

Faculty

Lectures

STEPHEN H. FRIEND/ Seattle, WA
MICHAEL B. KASTAN/ Baltimore, MD
ANDRÉ BERNARDS/ Charlestown, MA
HAROLD L. MOSES/ Nashville, TN
TYLER JACKS/ Cambridge, MA
ROBERT EISENMAN/ Seattle, WA

A. THOMAS LOOK/ Memphis, TN
THEA D. TLSTY/ Chapel Hill, NC
ALLEN I. OLIFF/ West Point, PA
NADIA ROSENTHAL/ Charlestown, MA
ERIC R. FEARON/ New Haven, CT
L. MICHAEL GLODÉ/ Denver, CO

PATRICIA S. STEEG/ Bethesda, MD
MARC E. LIPPMAN/ Washington, DC
JENNIFER A. PIETENPOL / Nashville, TN
CALVIN B. HARLEY/ Menlo Park, CA
JACQUELINE A. LEES/ Charlestown, MA
KATHLEEN R. CHO / Baltimore, MD

Additional Speakers to be Announced

Laboratory Rotations

DAVID LANDSMAN/ Bethesda, MD. "Computer Searching in Molecular Biology."
ANDREW LIU/ Denver, CO. "Polymerase Chain Reaction Technology."
JAMES P. HOEFFLER/ Denver, CO. "Transfer of Nucleic Acids and Proteins."
MARILEILA V. GARCIA/ Denver, CO. "Practical Cytogenetics."
(INSTRUCTOR TO BE ANNOUNCED) "Gene Expression Systems."

Application Deadline March 27, 1995

For further information, contact



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Ann G. Schwartz, Ph.D., M.P.H.
Department of Family Medicine and Clinical Epidemiology
School of Medicine, University of Pittsburgh
M200 Scaife Hall
Pittsburgh, PA 15261

The University of Pittsburgh is an Equal Opportunity, Affirmative Action Institution.

**EMPLOYMENT REGISTER OF
THE AMERICAN ASSOCIATION
FOR CANCER RESEARCH
(AACR)**

***An Important Listing of Available
Positions and Candidates in All
Disciplines of Cancer Research***

- Publication of Position and Candidate Advertisements in *Cancer Research* and the *Proceedings of the American Association for Cancer Research*
- Arrangement of Interviews at the AACR Annual Meeting in Toronto, Ontario, Canada (March 18-22, 1995)
- For forms and information:
Employment Register
American Association for Cancer Research
Public Ledger Building, Suite 816
150 S. Independence Mall West
Philadelphia, PA 19106-3483
Telephone: (215) 440-9300
FAX: (215) 440-9313

**AMERICAN ASSOCIATION FOR CANCER
RESEARCH (AACR)**

***SPECIAL OPPORTUNITIES FOR YOUNG
INVESTIGATORS***

The AACR is a professional society of over 10,000 scientists and physicians involved in cancer research. Special opportunities for young investigators include:

- **Associate Membership** conferring almost all of the benefits of regular membership at reduced rates
- **Employment Register** listing available positions and candidates in all subdisciplines of cancer research. Listings appear in several issues of *Cancer Research*, and interviews are arranged at the AACR Annual Meeting (Toronto, Ontario, Canada, March 18-22, 1995)
- **Travel Grants** to the Annual Meeting and AACR Special Conferences
- **Mentorship Program** and **Special Travel Awards** for NCI-designated minority scientists

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