AACR SPECIAL CONFERENCE IN CANCER RESEARCH

Negative Controls on Cell Growth and Their Breakdown during the Pathogenesis of Cancer

October 20-24, 1991
Chatham Bars Inn, Chatham (Cape Cod), Massachusetts

CONFERENCE CHAIRPERSON
Robert A. Weinberg / Cambridge, MA

PROGRAM COMMITTEE
David M. Livingston / Boston, MA
Arnold J. Levine / Princeton, NJ
Eric J. Stanbridge / Irvine, CA

SCIENTIFIC PROGRAM

Keynote Address
Alfred G. Knudson, Jr. / Philadelphia, PA

Senescence and Programmed Cell Death
Gretchen H. Stein / Boulder, CO
Olivia M. Pereira-Smith / Houston, TX
Michael O. Hengartner / Cambridge, MA
Andrew H. Wyllie / Edinburgh, Scotland

Extracellular Space and Negative Regulation of Growth
Erkki Ruoslahti / La Jolla, CA
Noel P. Bouck / Chicago, IL
Judah Folkman / Boston, MA
Additional Speaker to be Announced

Regulators of Senescence and Differentiation
Andrew B. Lassar / Boston, MA
Hartmut Beug / Vienna, Austria
William Sugden / Madison, WI
Stanley J. Korsmeyer / St. Louis, MO

Regulation of the Cell Cycle
Ira Herskowitz / San Francisco, CA
David H. Beach / Cold Spring Harbor, NY
Edward Harlow / Charlestown, MA
Steven L. Reed / La Jolla, CA

Negative Regulators in Human Cancer
Frank P. McCormick / Emeryville, CA
David E. Housman / Cambridge, MA
Arnold J. Levine / Princeton, NJ
Kenneth W. Kinzler / Baltimore, MD

Transcription and Growth Regulation
Robert N. Eisenman / Seattle, WA
David M. Livingston / Boston, MA
Harold L. Moses / Nashville, TN
Ronald M. Evans / San Diego, CA

Looking for New Tumor Suppressor Genes
Eric J. Stanbridge / Irvine, CA
Webster K. Cavenee / Montreal, Canada
Bernd R. Seligman / Boston, MA
John D. Minna / Bethesda, MD

Information and Application Forms
American Association for Cancer Research
Public Ledger Building, Suite 816
Sixth and Chestnut Streets
Philadelphia, PA 19106
215-440-9300 215-440-9313 (FAX)

Application Deadline: July 1, 1991
BENEFITS OF MEMBERSHIP

The American Association for Cancer Research (AACR) is a scientific society consisting of laboratory and clinical cancer researchers. It was founded in 1907 "to bring together active investigators of the cancer problem for presentation and discussion of new or significant observations; and to foster research in cancer and other phenomena of growth." Members of the AACR enjoy the following benefits:

1. subscriptions to the journals Cancer Research and Cell Growth & Differentiation at the reduced member rate;
2. the privilege of sponsoring an abstract for presentation at the AACR annual meeting;
3. an advance copy of the Program and Proceedings pertaining to each annual meeting;
4. a reduced registration rate at all scientific meetings;
5. early notification of events in the AACR's series of special conferences;
6. subscriptions to any future AACR journals at reduced member rates;
7. reduced rates for the AACR Employment Register;
8. the benefit of AACR's public education activities;
9. the receipt of AACR newsletters, meeting announcements, and an up-to-date membership directory.

QUALIFICATIONS FOR MEMBERSHIP

Active membership in the AACR is open to investigators who live in the Americas, and who have conducted two years of meritorious research that has resulted in publications relevant to cancer. If a candidate is working in a research area not directly related to the cancer field but has conducted research of exceptional scientific merit, he or she may also qualify for membership.

Corresponding membership is open to qualified persons who are not residents of the Americas. The requirements for corresponding membership are the same as those for active membership. Visiting scientists from outside the Americas who intend to return to their countries of origin soon after submitting their applications should apply for corresponding membership. All other individuals should apply for active membership and transfer to corresponding status at a later date if they should leave the Americas.

PROCEDURES FOR APPLICATION

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

<table>
<thead>
<tr>
<th>Receipt of Application in ACR Office</th>
<th>Notification of Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 1</td>
<td>May</td>
</tr>
<tr>
<td>July 1</td>
<td>September</td>
</tr>
<tr>
<td>October 1</td>
<td>December</td>
</tr>
</tbody>
</table>

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, emeritus, or honorary member of the AACR (at least one copy must be a signed, original letter). This letter should describe the candidate's achievements in laboratory research, clinical investigations, or epidemiological research, and it should affirm that this research adheres to accepted ethical standards.—OR—The nominator may 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, 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.

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
6th & Chestnut Streets
Philadelphia, PA 19106
215/440-9300

RESPONSIBILITIES OF MEMBERSHIP

Candidates should be aware of the following responsibilities of membership in the AACR. Active members must pay annual dues, a major portion of which is designated for a subscription to at least one of the AACR's publications. Newly elected members of the AACR who have already purchased subscriptions to Cancer Research or Cell Growth & Differentiation at the higher, nonmember rate will receive reimbursement of the unused portion of those subscriptions once their first year's membership dues are paid in full.

All corresponding members elected after May 23, 1985, are required to pay an annual assessment in lieu of dues. This assessment, which is equivalent to that portion of the regular dues that pertains to support of activities other than publications, is imposed to defray the cost of sending AACR publications to members outside the Americas. Corresponding members may, if they wish, subscribe to Cancer Research or Cell Growth & Differentiation at the reduced member rate.

Applicants elected in May will be responsible for payment of that year's dues; applicants elected in September and December will pay dues in the following year. Applicants elected in May and September 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 December.

Margaret Foti
Executive Director
AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC.
Public Ledger Building
Suite 816
6th & Chestnut Streets
Philadelphia, PA 19106

APPLICATION FOR MEMBERSHIP

CATEGORY OF MEMBERSHIP:  □ Active  □ Corresponding

NAME OF CANDIDATE: ____________________________  DATE OF BIRTH: ____________________________

PRESENT POSITION/TITLE: ____________________________

INSTITUTIONAL AFFILIATION: ____________________________

INSTITUTIONAL ADDRESS: ____________________________

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

TELEPHONE NUMBER: ____________________________

FAX NUMBER: ____________________________

PRIMARY FIELD OF RESEARCH (Please check only one):

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

(Please specify)

ACADEMIC DEGREES (Including where and when granted)

________________________________________________________________________________________

________________________________________________________________________________________

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

________________________________________________________________________________________

________________________________________________________________________________________

PUBLICATIONS (Reprints of two 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.)

________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

CANDIDATE NOMINATED BY: ____________________________  CANDIDATE SECONDED BY: ____________________________

(Please type or print)  (Please type or print)

STATEMENT OF SUPPORT (in place of letters of recommendation)

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

How long has the candidate worked in the field of cancer research? _____ years

Will the candidate make a long-term contribution to cancer research? Yes _____ No

Does the candidate’s research adhere to accepted ethical standards? Yes _____ No

I therefore recommend this candidate for membership in the American Association for Cancer Research.

_________________________________________ Date  ______________________________________ Date

Signature of nominator  Signature of seconder

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

* Nominators must be active, emeritus, or honorary members of the AACR.

(This form may be reproduced.)
QUALIFICATIONS FOR MEMBERSHIP

Associate membership is open to graduate students, medical students, postdoctoral fellows, and physicians in training who live in the Americas and who are following a course of study or who are working in a research program relevant to cancer.

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 bring together active investigators of the cancer problem for presentation and discussion of new or significant observations; and to foster research in cancer and other phenomena of growth.” Associate members of the AACR enjoy the following benefits:

1. the privilege of sponsoring an abstract for presentation at the AACR annual meeting provided that (a) the associate member is the presenter of the abstract and (b) an active member in good standing of the AACR also signs the abstract in support of the work (in this instance, the active member who co-signs the abstract does not lose his or her own sponsorship privilege);
2. an advance copy of the 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. an optional subscription to the journal Cancer Research at the reduced member rate;
6. subscriptions to any future AACR journals at reduced member rates;
7. early notification of events in the AACR’s new series of small scientific meetings on timely scientific topics;
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 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 active member 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 in the amount of $20, which represents one year’s dues payment, must accompany the application. 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 $20 dues payment to:

American Association for Cancer Research
Public Ledger Building
Suite 816
6th & Chestnut Streets
Philadelphia, PA 19106
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 1991 have been set at $20 per year. 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 December 1990 for the forthcoming annual meeting must have paid dues for 1990. Any newly elected associate members of AACR who have already purchased subscriptions to 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 on or before January 1 of that year. 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 1990 may retain associate membership until December 31, 1994. The Board of Directors may terminate the membership of an associate member whose dues are in arrears for two years.

Margaret Foti,
Executive Director
APPLICATION FOR ASSOCIATE MEMBERSHIP

NAME OF CANDIDATE: ___________________________ DATE OF BIRTH: ___________________________

INSTITUTIONAL AFFILIATION: ___________________________
INSTITUTIONAL ADDRESS: ___________________________

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

TELEPHONE NUMBER: ___________________________
FAX NUMBER: ___________________________

PRESENT ACADEMIC STATUS/TITLE (PLEASE CHECK ONLY ONE):
_____ Graduate Student   _____ Medical Student
_____ Physician in Training   _____ Postdoctoral Fellow

PRIMARY FIELD OF RESEARCH (PLEASE CHECK ONLY ONE):
_____ Biochemistry and Biophysics   _____ Biostatistics   _____ Carcinogenesis
_____ Cellular Biology and Genetics   _____ Clinical Investigations   _____ Endocrinology
_____ Epidemiology   _____ Immunology   _____ Molecular Biology and Genetics
_____ Preclinical Pharmacology and Experimental Therapeutics
_____ Virology   _____ Other: ___________________________

(Please specify)

ACADEMIC DEGREES (PLEASE INDICATE DEGREE(S) ACQUIRED TO DATE ALONG WITH THE NAME OF THE ACADEMIC INSTITUTION AND DATE OF RECEIPT. PROVIDE INFORMATION ON DEGREE CURRENTLY BEING SOUGHT AND THE ANTICIPATED DATE OF COMPLETION OF THIS DEGREE PROGRAM.)

_________________________________________________________

RELEVANT RESEARCH EXPERIENCE NOT RELATED TO COURSE WORK (PLEASE LIST MOST RECENT FIRST.)

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

PUBLICATIONS (LIST THE AUTHORS, TITLE, JOURNAL, VOLUME, INCLUSIVE PAGES, AND YEAR OF ANY ARTICLE IN A PEER-REVIEWED JOURNAL ON WHICH THE CANDIDATE APPEARS AS AN AUTHOR. DO NOT LIST ABSTRACTS. CONTINUE ON A SEPARATE SHEET, IF NECESSARY.)

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________

CANDIDATE NOMINATED BY: ___________________________

(Please type or print name of AACR active member in good standing.)

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. Enclose a check for $20 in U.S. funds made payable to AACR, Inc. and drawn on a U.S. bank. Check one of the following boxes only if this form is being submitted between September 1 and December 31:

☐ current ☐ 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 May of that year.) See Guidelines for Application on the reverse side of this form for further instructions.

(This form may be reproduced.)
Guidelines for Submitting Diskettes to Cancer Research

The word processing packages that we prefer are as follows:

XyWrite III Plus (for the IBM)  Microsoft Word (for the IBM)
WordPerfect 4.2, 5.0, 5.1 (for the IBM)  Wang OIS (WPS)
Wordstar (for the IBM)

Also acceptable:

Apple II DOS 3.3  Display Write 4
Apple with Appleworks Software  IBM Displaywriter Word Processor 6580
Apple III Plus DOS 3.3  Lanier Business One Step
Apple Macintosh 400K Disc/  Lanier No Problem
MacWrite 2.2 (text)  Lanier Super No Problem
Apple Macintosh Plus 800K Disc/  MASS-11 PC
MacWrite 4.5 (text)  Microsoft Word Macintosh
CPT 8000  (Version 1.05) 400/800K
DEC WPS-8  Multimate
DEC Decmate II  PC Write
DEC Decmate III  PFS Professional Write
Display Write 3  Volkswriter 4.0
Display Write 4  Wordstar 2000

New releases of word processing software are not always immediately available for conversion. In addition, because of the file structures and internal coding, we cannot accept diskettes created on desktop publishing systems or those created on proprietary typesetting systems. We also cannot guarantee that all special characters can be translated. Tabular and mathematical material, such as equations, will not be captured from the diskette but will be rekeyed.

To expedite work and for your own security, we do require that you submit a hard copy printout of the diskette file. The tables and equations will be keyed from this hard copy. We also need to know the name of the file to be converted, the type of hardware (e.g., IBM PC) on which the files were created, the operating system (e.g., DOS 3.3), and the version of the software (e.g., WordPerfect 5.1) used to create the file.

PLEASE FILL OUT ALL INFORMATION ON REVERSE SIDE AND SUBMIT THIS FORM WITH YOUR DISKETTE. DISKETTES WILL NOT BE PROCESSED WITHOUT THIS INFORMATION.
Cancer Research is now using personal computers to copyedit manuscripts accepted for publication. Authors are encouraged to submit electronic diskettes of their manuscripts along with the typed manuscript. Diskettes will ultimately be returned to the authors.

See reverse for the word processing packages that can be accepted by Cancer Research.

File preparation

Please be sure that the file you send is the most recent version of the manuscript and that it matches the most recently submitted printed copy. The file should contain all the parts of the manuscript, as outlined in our “Instructions for Authors” (see January 1 issue of Cancer Research), in one file. Mathematical and tabular material, however, will be processed in the traditional manner and may be excluded from the diskette file.

Note: The Journal does not assume responsibility for errors in conversion of customized software, newly released software, or special characters.

Please label the outside of the diskette with the journal name, the first author’s name, a partial title of the manuscript, and the name of the computer file used to access the manuscript on diskette. To process your diskette efficiently, we need the following information. Please be sure to provide ALL the information.

Name used to access paper on diskette: _____________________________________________

Name of computer used (e.g., IBM/PS2): ________________________________________

Operating system and version (e.g., DOS 3.3): ________________________________

Word processing program and version (e.g., WordPerfect 5.0): __________________

[See reverse for acceptable programs.]

Manuscript number (if known): ________________________________________________

First author: _______________________________________________________________

Corresponding author (if different from first author): _____________________________

Telephone/FAX numbers: _____________________________________________________

This form (both sides) may be reproduced.
Every month. Pioneering research spanning the fields of molecular biology, molecular genetics, biochemistry, cell biology, developmental biology, and cancer research. Subscribe now!

SCOPE

- Original in vitro and in vivo studies of mechanisms underlying normal and abnormal cell behavior and cell growth control
- Research Capsules: updates of changing concepts in the field
- Viewpoints: comments on published articles

FROM RECENT ISSUES

Mutant p53 DNA Clones from Human Colon Carcinomas Cooperate with ras in Transforming Primary Rat Cells: A Comparison of the "Hot Spot" Mutant Phenotypes

The Human Multidrug-Resistance Gene: Sequences Upstream and Downstream of the Initiation Site Influence Transcription
M. M. Cornwell

Tyrosine Phosphorylation of a Gap Junction Protein Correlates with Inhibition of Cell
to-Cell Communication
A. J. Filson, R. Azarnia, E. C. Beyer, W. R. Loewenstein, and J. S. Brugge

Cloning Expression of the Human Substance-K Receptor and Analysis of Its Role in Mitogenesis

Mechanism of Activation of the vay Protooncogene
J. Coppola, S. Bryant, T. Koda, D. Conway, and M. Barbacid

Research Capsules

Oncogenes at Viral Integration Sites
G. Peters

Molecular Characterization of Protein Tyrosine Phosphatases
H. Saito and M. Streuli

A DISTINGUISHED EDITORIAL BOARD

George F. Vande Woude, Ph.D.
Editor-in-Chief

Mariano Barbacid, Ph.D.
Webster K. Cavenee, Ph.D.
Suzanne Cory, Ph.D.
Sara Courtneidge, Ph.D.
Tom Curran, Ph.D.

Raymond L. Erikson, Ph.D.
Nancy A. Jenkins, Ph.D.
Frank McCormick, Ph.D.
Harold L. Moses, M.D.
Yasutomi Nishizuka, M.D., Ph.D.
Gordon G. Peters, Ph.D.
Joseph Schlessinger, Ph.D.

MANUSCRIPT INFORMATION

- Average peer review time--3 weeks. To accelerate process, mail manuscripts to Editorial Board member of your choice.
- Average time from acceptance to publication--10 weeks.
- Indexed by Index Medicus, MEDLINE, CancerLit, BIOSIS, and Current Contents

ORDER TODAY!

Rates in US $*
$150 Institutional
$90 Individual non-member
Members, American Association for Cancer Research: For rates, call 215-440-9300.
*Add $20 for delivery outside US

For further details about manuscript submission, contact:
Dr. George F. Vande Woude, Editor-in-Chief, 301-846-1584, FAX 301-696-1549, or the American Association for Cancer Research, 215-440-9300, FAX 215-440-9354.

Order by mail or phone:
Cell Growth & Differentiation
c/o Williams & Wilkins
P.O. Box 64473
Baltimore, MD 21264-0473
1-800-638-6423, 1-800-638-4007 in MD
Sample copy upon request
MAJOR SCIENTIFIC EVENTS

Special Session

Discoveries and Opportunities in Cancer Research—A Celebration of the 50th Anniversary of Cancer Research—
I. Bernard Weinstein, Carlo M. Croce, Curtis C. Harris, Lance A. Lidd, Jonathan W. Uhr, Peter M. Howley, Karen S. H. Antman, Steven A. Rosenberg, Eli Glasstein

Plenary Sessions

Molecular Mechanisms of Tumor Suppresser Genes and Oncogenes - Lewis T. Williams, Daniel DiMaio, Edward Harlow, Daniel A. Haber

Protoonogenes and Tumor Suppressor Genes: Development and Cancer - George F. Vande Woude, Andrew McMahon, Luis Farada, Raymond L. White

Molecular Pathogenesis of Lung Cancer - John D. Minna, R. Ilona Linnoila, Curtis C. Harris, Hildegard Schuller

Genetic Changes in Cancer: Implications for Diagnosis and Treatment in the 1990's (sponsored jointly with the American Society of Clinical Oncology) - Janet D. Rowley, Ruth Sager, Michelle L. Le Beau, Razelle Kurzrock

Symposia

Negative Growth Regulators - Harold L. Moses, Anita B. Roberts, Francis W. Ruscetti, Edward B. Leof, Rik Derynck
Multiple Primary Cancers: Epidemiology and Molecular Mechanisms - Louise C. Strong, Margaret A. Tucker, Stephen H. Friend, David W. Yandell, Takashi Sugimura
Molecular Biology of DNA Damage and Repair - Larry H. Thompson, Wilhelm A. Bohr, Louise Prajus, 1. H. Hozijama, Deborah E. Barnes
Cell Cycle Control in Eukaryotes Large and Small - Fred R. Cross, James M. Roberts, Ted Weinert, William Dunphy
Hormones and Cancer - Marc E. Lippman, Gerald R. Cunha, Max S. Wicha, Henri Rochefort, Malcolm G. Parker
Ethnic Differences in Cancer Biology - Pelayo Correa, Raymond S. Greenberg, Brian E. Henderson, William J. Blot, Thomas M. Becker, Lawrence N. Kornel, Allen Herman
Recombinant DNA Approaches to Drug Development - Ira Pastan, Michael Blais, Sherez L. Morrison, Dennis R. Burton

The Nuclear Matrix and the Malignant Cell - Sheldon Pennman, Jeffrey Nickerson, Ronald Berezney, Donald S. Coffey, Roel van Driel

Molecular Epidemiology - Gerald N. Wogan, Paolo Vineis, John D. Groopman, William P. Bentow, Thomas R. Skopek
Current Status of the Human Genome Project - Mortimer L. Mendelsohn, Charles R. Cantor, David Ward, Anthony V. Carrano, Lloyd M. Smith

Clonal Evolution in Cancer - Peter C. Nowell, Iasatsh J. Pikler, Webster K. Cavenee, The D. Tilly

Drug Delivery Systems - Robert Langer, Henry Brem, Gabriel Lopez Berestiz, Ellen S. Vitting, Michael W. Fanger

Tumor Vaccines and Active Immunotherapy - Ronald B. Herberman, Thierry Boon, Olivia J. Finn, Sayu Shu, Philip O. Livingston, Donald L. Morton

Presentation of the 1990 General Motors Cancer Research Foundation Special Lectures

Presidential Address - I. Bernard Weinstein
Columbia University, New York, NY

Clowes Award Lecture - Michael H. Wigler
Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

Rosenthal Award Lecture - Owen N. Witte
UCLA School of Medicine, Los Angeles, CA

Cain Award Lecture - Michael B. Sporn
National Cancer Institute, Bethesda, MD

Rhoads Award Lecture - Richard C. Mulligan
Whitehead Institute for Biomedical Research, Cambridge, MA

Sessions of Preferred Papers

Minisymposium, poster discussion sessions, and regular poster sessions will be organized from over 2,600 submitted papers in all areas of cancer research.

Meet the Expert Sunrise Sessions

Do Human Tumors Arise from Normal Cellular Processes - Lawrence A. Loeb

Tumor Promotion: A Trivial Process with a Sophisticated Molecular Basis - Stuart H. Yuspa

Tumor Immunology: Is There a Future? - Margaret L. Kripke

Minority Issues Committee Symposium

Careers and Opportunities in Cancer Research: Research and Survival in the 1990's - Lovell A. Jones, Cecil B. Pickett, Kenneth Olden, Lydia Villa-Komaroff

Women in Cancer Research Mentoring Session

Surviving as a Cancer Researcher in the 1990's: Creative Solutions - Helene S. Smith, Andrea M. Mastro, Anna Maria Casazza, Mary Woolley, Linda Cadigan, Nita Cintron, Collette Freeman

Pre-Meeting Workshops

Tuesday, May 14

Separate registration fee required; advance registration recommended.

Antisense, Oligonucleotides, and Polymerase Chain Reaction - Michael J. Sherman, Additional Speakers to Be Announced

Genetically Engineered Antibodies for Cancer Immunotherapy - Ralph A. Reifeld, Stephen D. Gillies, George E. Mark III, Mark Whitlow, Dennis R. Burton

FEES

Member Registration: $90*
Nonmember Registration: (includes Proceedings) $155*
Predoctoral Student and Associate Member Registration: $60*
Workshop Registration: $50
Proceedings of the AACR: $25

*15% discount for advance registration received by March 22, 1991.

MAY 15-18, 1991
HOUSTON, TEXAS

PUBLICATIONS

The Proceedings of the American Association for Cancer Research contains all abstracts deemed acceptable by the Program Committee and extended abstracts of symposium and plenary session presentations and special lectures. The Proceedings is received by all subscribers to the journals Cancer Research, Clinical Cancer Research, or it may be purchased at the time of registration.

The Program of the Annual Meeting of the American Association for Cancer Research is included in the registration fee.

EMPLOYMENT REGISTER

Detailed listings of available positions and prospective candidates will be available for consultation during the Annual Meeting and will be published in the proceedings and two issues of the Association's journal Cancer Research. Interviews will be scheduled in Houston.

TRAVEL AWARDS FOR YOUNG INVESTIGATORS

Upjohn Awards
For presentations of meritorious abstracts selected by the Program Committee. No formal application necessary.

Predoctoral students, postdoctoral fellows, and physicians in training are eligible. Upjohn Company sponsors awards to investigators in North America; Upjohn International, Inc., to investigators in other countries.

Comprehensive Minority Biomedical Program of the National Cancer Institute
For predoctoral students, postdoctoral fellows, or physicians in training in the U.S. and Canada from minority groups that have been traditionally underrepresented in cancer research.

DEADLINES

Advance Registration (includes advance mailing of Program and Proceedings) March 22, 1991

Hotel Reservations April 22, 1991

AIR TRAVEL

United Airlines 800-521-4041

Delta Air Lines 800-241-4760

CAR RENTAL

Budget Rent a Car 800-772-3773

INFORMATION AND FORMS

American Association for Cancer Research
Public Ledger Building, Suite 800
Sixth & Chestnut Streets
Philadelphia, PA 19106
215-440-8300

FAX: 215-440-9313

American Association for Cancer Research
Public Ledger Building, Suite 800
Sixth & Chestnut Streets
Philadelphia, PA 19106
215-440-8300

FAX: 215-440-9313