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FIRST ANNOUNCEMENT

Call for Abstracts

87th Annual Meeting of the American Association for Cancer Research

April 20-24, 1996
Washington, DC

An Exciting Multidisciplinary Program for Laboratory and Clinical Cancer Researchers

In This Booklet:
- Abstract Submission Forms and Instructions
- Preliminary Program Information
- Information on Travel Awards for Young Basic and Clinical Investigators
- Advance Registration and Housing Forms
- AACR Membership Application Forms
- Employment Register Forms
Special Plenary Session

Twenty-fifth Anniversary of the National Cancer Act: Progress and Promise (Joseph R. Bertino)

Symposia

Apoptosis: Manipulating Programmed Cell Death in Cancer (David E. Fisher)
Matrix Metalloproteinases and Their Inhibitors (Lynn M. Matrisian)
Cell Cycle: Targets for Therapy (Stephen H. Friend)
Endogenous DNA Damage: Detection and Biological Significance (John M. Essigmann)
Cell Signaling (Channing Der and Deborah Morrison)
Recent Developments in Gene Therapy (Drew M. Pardoll)
Cancer Chemoprevention in Humans (Thomas W. Kensler)
Genetic Predisposition to Cancer (Mark H. Skolnick)
Cell Responses to DNA Damaging Agents (Nathan A. Berger)
Drug Resistance: Transcriptional and Translational Mechanisms (Kathleen W. Scott)
Monoclonal Antibodies: Clinical Mechanisms and Effectiveness (Ellen S. Vitetta)
Targeting Growth Factor Receptors for Therapy (John Mendelsohn)
Melanoma as a Clinical Model (Alan N. Houghton)
Thymidylate Synthetase and Its Inhibitors (Jill H. meta)
Nutrition and Cancer (Walter C. Willett)
Aberrant Transcription Factors and Malignancy (Lorraine J. Gudas)
Steroid Hormones: Breast and Prostate Cancer (Myles A. Brown)
Viral Mechanisms of Carcinogenesis (Harald zur Hausen)
Tumor Suppressor Genes (Bert Vogelstein)
Ovarian Cancer: From the Laboratory to the Clinic (Robert F. Ozols)
Drug Metabolizing Enzymes in Cancer Prevention and Therapy (Cecil B. Pickett)
Cell Adhesion Molecules and the Cytoskeleton (Jun-Lin Guan and Rudolph L. Juliano)
Tumor Angiogenesis (Judah Folkman and Mark A. Goldberg)
Neuroblastoma: Recent Advances in Diagnosis and Treatment (Garrett M. Brodeur)
Telomerase, Cell Senescence, and Cancer (Calvin B. Harley)

Pre-Meeting Methods Workshops

Quantitative Biology and Pharmacodynamics (Robert C. Jackson)
Animal Models: Transgenic and Knockout Mice in Cancer Investigations (Terry A. Van Dyke)

Controversy Sessions

Does Regional Chemotherapy Work? (David S. Alberts)
Is Beta-Carotene Useful in Cancer Prevention? (Wu Ki Hong)
In Studies of Drug Resistance, Have Preclinical Models Provided Accurate Predictions for Clinicians? (Bruce A. Chabner)
Is p53/Rb Important for Therapeutic Outcome? (William F. Benedict)
Should Genetic Testing Be Done on Patients to Assess Cancer Risk? (Judy E. Garber)

Meet-The-Expert Sunrise Sessions

Quantitative PCR As a Tool to Detect Minimal Residual Disease in Lymphoma and Leukemia (John Gribben)
Inhibition of Tobacco-induced Carcinogenesis (Stephen S. Hecht)
Cell Cycle (Peggy J. Farnham)
Drugs Which Interact with Microtubules: An Update (Eric K. Rowinsky)
Culturing Normal and Neoplastically Transformed Human Epithelial Cells (Martha R. Stampfer)
Mammary Carcinogenesis (Daniel Medina)
Radiation Sensitization (Theodore S. Lawrence)
NMR As a Prognostic (Jerry D. Glickson)
Antiestrogens (V. Craig Jordan)
DNA Topoisomerases and Their Inhibitors (Yves G. Pommier)
Estrogens and Breast Cancer (Lovell A. Jones)
Tumor Physiology (Rakesh K. Jain)
Protein Kinase C in Cell Transformation (Susan Jaken)
Environmental Carcinogens: Their Impact in Cancer (John A. McLachlan)
Lung Cancer: A Primer (Jean A. Ford)
Chromosomal Deletions and Cancer: Recent Advances in Mapping Techniques (Fumihito Olopade)
Tumor Vaccines (Jeffrey Schlom)
Challenges in Bone Marrow Transplantation (William S. Dalton)
Immunologic Features of AIDS Pathogenesis (Jay A. Levy)
Natural Killer Cells (Ronald B. Herberman)
Interferons and Cancer (Ernest C. Borden)
Transcription Factors As Therapeutic Targets (Richard A. Heyman)
Chemokines and Leukocyte-specific Chemotactic and Activating Factors (Barrett J. Rollins)
Bcl and Cell Death (Stanley J. Korsmeyer)
Prodrugs (Peter D. Senter)
Specific Immunotherapy of Melanoma (Philip Livingston)
Diet and Tumorigenesis (Diane F. Birt)
Childhood Leukemias: The Latest in Treatment (Steven E. Sallan)
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1996 AACR ANNUAL MEETING

TENTATIVE SCHEDULE OF EVENTS

Saturday, April 20

11:00 a.m.-8:00 p.m. On-site Registration
12:00 noon-6:30 p.m. Educational Sessions
2:00-6:00 p.m. Methods Workshops (advance registration required; forms available in November)
6:30-8:00 p.m. WICR Guest Lecture and Reception
8:00-10:00 p.m. Opening Mixer

Monday, April 22 (cont.)

1:00-2:00 p.m. American Cancer Society Lecture
1:00-2:00 p.m. Controversy Sessions
1:00-5:00 p.m. Poster and Poster Discussion Sessions
1:45-5:15 p.m. Minisymposia
2:15-5:15 p.m. Symposia
5:30-6:00 p.m. Presentation by the Director of the NCI
6:00-7:00 p.m. Annual Business Meeting

Sunday, April 21

7:00 a.m.-4:00 p.m. On-site Registration
7:00-8:00 a.m. Meet-the-Expert Sunrise Sessions
8:00 a.m.-12:00 noon Poster and Poster Discussion Sessions
8:15-11:45 a.m. Minisymposia
8:30-11:30 a.m. Plena, Session: "25th Anniversary of the National Cancer Act: Progress and Promise," Joseph R. Bertino, Chairperson
11:45 a.m.-12:45 p.m. Clowes Memorial Award Lecture (sponsored by Eli Lilly & Company)
12:30-5:00 p.m. Exhibit Show Open
1:00-2:00 p.m. Controversy Sessions
1:00-5:00 p.m. Poster and Poster Discussion Sessions
1:45-5:15 p.m. Minisymposia
2:15-5:15 p.m. Symposia
5:30-6:30 p.m. Presidential Address: Joseph R. Bertino
6:30-9:00 p.m. Minority Issues Committee Symposium
8:00-10:30 p.m. Annual Reception

Monday, April 22

7:00 a.m.-4:00 p.m. On-site Registration
7:00-8:00 a.m. Meet-the-Expert Sunrise Sessions
8:00-11:00 a.m. Symposia
8:00 a.m.-12:00 noon Poster and Poster Discussion Sessions
8:15-11:45 a.m. Minisymposia
10:00 a.m.-4:00 p.m. Exhibit Show Open
11:45 a.m.-12:45 p.m. New Clinical Award Lecture (sponsored by Bristol-Myers Squibb Oncology)

Tuesday, April 23

7:00 a.m.-4:00 p.m. On-site Registration
7:00-8:00 a.m. Meet-the-Expert Sunrise Sessions
8:00 a.m.-12:00 noon Poster and Poster Discussion Sessions
8:00-11:00 a.m. Symposia
8:15 a.m.-11:45 a.m. Minisymposia
11:00 a.m.-5:00 p.m. Exhibit Show Open
11:45 p.m.-12:45 p.m. Rosenthal Foundation Award Lecture
1:00-2:00 p.m. Late-Breaking Research Session
1:00-5:00 p.m. Poster and Poster Discussion Sessions
1:45-5:15 p.m. Minisymposia
2:15-5:15 p.m. Symposia
5:30-6:30 p.m. Rhoads Memorial Award Lecture (sponsored by an anonymous donor)

Wednesday, April 24

7:00 a.m.-2:00 p.m. On-site Registration
7:00-8:00 a.m. Meet-the-Expert Sunrise Sessions
8:00 a.m.-12:00 noon Poster and Poster Discussion Sessions
8:00-11:00 a.m. Symposia
8:15 a.m.-11:45 a.m. Minisymposia
11:45 a.m.-12:45 p.m. Cain Memorial Award Lecture (sponsored by Warner-Lambert)
1:00-2:00 p.m. Controversy Session
1:00-5:00 p.m. Poster and Poster Discussion Sessions
1:45-5:15 p.m. Minisymposia
2:15-5:15 p.m. Symposia
OUTSTANDING SCIENTIFIC PROGRAM

• The latest findings in the most rapidly developing areas of basic, clinical, and translational cancer research.

• International scientific scope.

• Invited presentations on the most promising advances in the field in a variety of formats.

• Program Committee of scientific leaders headed by Lorraine J. Gudas, Chairperson of the Department of Pharmacology, Cornell University Medical School.

• Outstanding Plenary Session (“25th Anniversary of the National Cancer Act: Progress and Promise”) chaired by President Joseph R. Bertino, Chairperson of the Molecular Pharmacology and Therapeutics Program, Memorial Sloan-Kettering Cancer Center. Distinguished speakers: Harold Varmus, Arnold J. Levine, Susan Band Horwitz, Lloyd J. Old, Paul Talalay, and James F. Holland.

• Two new special lectures on clinical cancer research and cancer prevention.

• Nearly 4,000 proffered papers covering all aspects of cancer research.

• Late-breaking Research Session for the presentation of important findings made after the abstract deadline (December 1, 1995).

• Opportunities to interact with prominent scientists in “Meet-the-Expert” Sunrise Sessions.

• Conflicting views of a major scientific issue in controversy sessions.

• Comprehensive overviews of important disciplines in Educational Sessions.

• Reviews of state-of-the-art research techniques in Methods Workshops.

A FORMAT THAT PROMOTES SCIENTIFIC INTERACTION AND REDUCES TRAVEL COSTS

• Meeting date in mid-April, well before the June 1 NIH grant submission deadline and the Memorial Day Holiday.

• Educational Sessions and Methods Workshops on Saturday afternoon and a full complement of sessions on Sunday morning allowing registrants to obtain reduced airfares that require a Saturday night stayover.

• Four full days of scientific sessions to reduce overlaps in topics.

• A schedule that allows time for visiting posters and exhibits with no major sessions conflicting.

MEETING PUBLICATIONS THAT BECOME VALUABLE REFERENCE TOOLS

• Proceedings of the American Association for Cancer Research with abstracts of 4,000 proffered papers and over 100 invited presentations.

• Annual Meeting Program with the complete meeting schedule and titles and authors of all presentations.

• NEW THIS YEAR: Annual Meeting Abstracts on CD-ROM, with powerful search capabilities.

OTHER SERVICES AND PROGRAMS IMPORTANT TO PROFESSIONAL DEVELOPMENT

• Exhibit Show with products and services essential to laboratory and clinical research programs.

• Listings of available positions and candidates in the AACR Employment Register.

• Varied educational and mentorship program from Women in Cancer Research (WICR).
• Symposium on careers in cancer and biomedical research organized by the Minority Issues Committee.

• Opportunities to meet with NIH Program and Review Staff in NIH Resource Room.

AN ACCESSIBLE AND CONVENIENT MEETING SITE

• Washington, DC, easily reached from all major cities, particularly those on the U.S. East Coast.

• All scientific sessions in the Washington Convention Center.

• Convenient Co-Headquarters Hotels, the Washington Renaissance and the Grand Hyatt, both just across the street from the Center.

• A variety of other hotels within a 1-mile radius, connected to the Center by shuttle buses.

• Discounted airfares from the Association’s Official Travel Agent, Uniglobe, at (800) 243-4370 or (215) 628-3322. FAX: (215) 628-0310.

AN EXPANDED PROGRAM OF ANNUAL MEETING TRAVEL GRANTS

• Awards for medical and graduate students, physicians in training, and postdoctoral fellows who are authors of outstanding abstracts. (To qualify submit an abstract and check Box 7A on the abstract form for automatic consideration.)

• Awards from the Comprehensive Minority Biomedical Program of the NCI for medical and graduate students, physicians in training, and postdoctoral fellows from minority groups considered underrepresented in cancer research, i.e., African Americans, Hispanic Americans, Native Americans, Native Pacific Islanders, and Alaskan Americans. (To apply check Box 7B on the abstract form or call the AACR Office for an application form. Application deadline: January 26, 1996.)

• Glaxo Wellcome Oncology Clinical Research Scholar Awards made to physicians in training and postdoctoral fellows nominated by selected cancer centers and institutes. (Centers wishing to be considered for 1996 Awards should call the AACR Office.)

• WICR’s Brigid Leventhal Travel Awards for graduate and medical students, physicians in training, and postdoctoral fellows who have submitted abstracts for the meeting and have been nominated by a member in good standing of WICR. (For more information contact Dr. Mary Jean Sawey at 215-898-0270.)

HOW TO PARTICIPATE IN THE 1996 AACR ANNUAL MEETING


2. Register for the meeting using the advance registration form on Page 31. Send the form with payment by March 1, 1996, to obtain reduced registration rates and to ensure the receipt of your badge and meeting publications in advance of the annual meeting.

3. Review the Proceedings on CD-ROM in advance of the meeting by adding $35 (members) or $45 (nonmembers) to your advance registration fee payment. Check the appropriate box on the registration form.

4. Reserve a hotel room. On Page 25 you will find instructions for using the AACR Housing Bureau in Washington. Please note that registrants from North America should register by telephone. A FAX number is provided for registrants from other countries. Page 26 contains a list of all hotels reserving rooms for the AACR meeting as well as sleeping room rates, and Page 27, a map showing the convention center, the meeting hotels, and other important landmarks in Washington, DC. Make your reservation as soon as possible to obtain your first-choice hotel room and, in any case by March 21, 1996.

5. Join the AACR. Application forms for active and corresponding membership appear on Pages 17-18, and for associate membership, on Pages 19-20. Application for membership has now been facilitated: Now

• Corresponding members may now sponsor candidates for corresponding, active, and associate membership.

• Eligible scientists from outside of North America may now apply for associate membership.

• The next deadline for applications for active and corresponding membership is January 1, 1996.

THE AACR MEETING IN WASHINGTON, APRIL 20-24, 1996, AN ESSENTIAL SCIENTIFIC MEETING FOR ALL CANCER RESEARCHERS
AMERICAN ASSOCIATION FOR CANCER RESEARCH
87th ANNUAL MEETING
Washington Convention Center • Washington, D.C. • April 20-24, 1996

Deadline for Receipt of Abstracts at the AACR Office
DECEMBER 1, 1995

Regulations Applying to Abstracts and Proffered Papers

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 publish or present 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 the pre-publication processing. After review of the abstract by the Program Committee the author will be notified about its acceptability for presentation. The paper given at the meeting must coincide directly with the scientific content as given in the abstract.

Please fill out, self-address on reverse side, and affix postage

ACKNOWLEDGMENT CARD - 1996 AACR ABSTRACT

Temporary Abstract Number: __________________________
(Use for reference purposes)

Dear PRESENTER:

We acknowledge receipt of the abstract of your paper entitled:
________________________________________________________

by __________________________________________
which has been submitted for consideration for presentation at the 1996 Annual Meeting of the American Association for Cancer Research. You will be notified of the action of the Program Committee in early February 1996.

Sincerely yours,

American Association for Cancer Research

Potential Minisymposium Topics
Targeting of Drugs to DNA Replication and Repair
Novel Natural Products as Chemotherapeutic Agents
Lipid Second Messengers
Cancers of the Central Nervous System: Characterization and Treatment
Leukemias and Lymphomas of Childhood: Molecular Analysis and Treatment
Radiation Therapy: Recent Advances
Molecular Analysis of Metastasis
Tumor Necrosis Factor
Cis-Platinum: Mechanism of Action and Therapeutic Approaches
Biology of Neural Crest-derived Tumors

Poster discussion submitted abstracts that require presentation of its content. An opportunity to present
will be given to the chairpersons well in advance of the session. The effectiveness of
other sessions will extend to include presentations of posters. A limited number of posters will be
accepted for these authors to assist any author who present a paper on a particular, the complexities of
for this multidisciplinary cancer research meeting. We have received sufficient notice from the abstracts. 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 1995 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.

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 (namely, his or her own) abstract.

2. Each member of the Association may SPONSOR only one abstract. 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 Association. (As noted above, an associate member may SPONSOR only an abstract that he or she PRESENTS.)

3. The SPONSOR must sign the abstract form in the space provided.

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 interpretations contained therein.

Please do not submit applications for active/corresponding membership along with your abstracts. The closing date for receipt of these applications was September 1.

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

ABSTRACT SUBMISSION FEE

A fee of US$35 will be assessed for each abstract submitted for consideration by the Program Committee. This fee offsets some of the costs of processing the abstract. Each abstract must be accompanied by a check or purchase order for US$35 payable to the American Association for Cancer Research, Inc. - OR - authorization must be provided to charge this fee to a credit card that is accepted by the AACR (see Item 9 on the abstract form). All checks must be drawn on United States banks. If a purchase order must precede payment by an institution, it is the PRESENTER's responsibility to ensure that the purchase order is followed by payment of the fee. Please list the name of the PRESENTER on the check or purchase order.

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

Instructions for the Preparation and Mailing of Abstracts

ABSTRACT FORM

Abstracts must be submitted on the official blue and white abstract form provided by the Association. FAX TRANSMITTALS WILL NOT BE ACCEPTED.

Enclosed are TWO abstract forms. Please pass one on to a colleague if you do not need it for your own use. Additional abstract forms may be obtained by calling or by writing to the AACR Office.

A Temporary Abstract Number will be assigned to your abstract when it arrives at the AACR Office. Its 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.

The official abstract form must be completely filled out and signed in accordance with the instructions. Two (2) photocopies of the completed form must also be submitted. In addition to typing the abstract within the blue border according to the instructions given below, please provide the information and signatures requested on the abstract form as follows. (N.B. 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 10-11 of this booklet. 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 member number, name, address, telephone number, and FAX number 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 1995, may SPONSOR only one abstract. (See Page 4 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 and to transfer the copyright of the abstract to the American Association.
AMERICAN ASSOCIATION FOR CANCER RESEARCH
87th ANNUAL MEETING
Washington Convention Center • Washington, D.C. • April 20-24, 1996

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DECEMBER 1, 1995

Regulations Applying to Abstracts and Proffered Papers

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To maximize the effectiveness of the scientific program the Program Committee has 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 will include an introduction and a concluding discussion of the topic.

The Program Committee has identified a number of topics as being suitable for minisymposia and strongly encourages the submission of abstracts in these areas. If a sufficient number of high-quality abstracts are submitted and accepted on these topics, minisymposia will be devised. Authors who submit abstracts in these areas should note that their papers may be scheduled in poster sessions if they cannot be accommodated in minisymposia. Authors need not designate their interest in these sessions on the abstract form; the Program Committee will use computer-aided search techniques to identify appropriate submissions.

Potential Minisymposium Topics
Targeting of Drugs to DNA Replication and Repair
Novel Natural Products as Chemotherapeutic Agents
Lipid Second Messengers
Cancers of the Central Nervous System: Characterization and Treatment
Leukemias and Lymphomas of Childhood: Molecular Analysis and Treatment
Radiation Therapy: Recent Advances
Molecular Analysis of Metastasis
Tumor Necrosis Factor
Cis-Platinum: Mechanism of Action and Therapeutic Approaches
Biology of Neural Crest-derived Tumors

Poster Discussion Sessions. Poster discussion sessions will also 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. 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 well in advance of the meeting to maximize the effectiveness of the discussion at the annual meeting.

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.

The Association 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 1995 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.

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
nonmember 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
(namely, his or her own) abstract.

2. Each member of the Association may SPONSOR
only one abstract. 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 Association. (As noted above, an
associate member may SPONSOR only an abstract that he
or she PRESENTS.)

3. The SPONSOR must sign the abstract form in the
space provided.

4. A member or nonmember may be listed as a
cosponsor 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
interpretations contained therein.

**Instructions for the Preparation and Mailing of Abstracts**

**ABSTRACT FORM**

Abstracts must be submitted on the official blue and
white abstract form provided by the Association. **FAX
TRANSMITTALS WILL NOT BE ACCEPTED.**

Enclosed are TWO abstract forms. Please pass one on
to a colleague if you do not need it for your own use.
Additional abstract forms may be obtained by calling or by
writing to the AACR Office.

A Temporary Abstract Number will be assigned to
your abstract when it arrives at the AACR Office. Its
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.

The official abstract form must be completely filled out
and signed in accordance with the instructions. Two (2)
photocopies of the completed form must also be submitted.
In addition to typing the abstract within the blue border
according to the instructions given below, please provide
the information and signatures requested on the abstract
form as follows. *(N.B. 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 10-11 of this booklet. 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 member
number, name, address, telephone number, and FAX
number 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 1995,
may SPONSOR only one abstract. (See Page 4 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 and to transfer
the copyright of the abstract to the American Association
for Cancer Research, Inc., copyright owner of the collective work - the *Proceedings of the American Association for Cancer Research*.

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. **Identification of Financial Interests (if any).** Check this box if any author of the abstract has a financial interest in products or processes involved in the research described. Financial interest includes stock ownership, membership on an advisory board or board of directors, corporate-sponsored research, or other substantive relationships. If the box is checked, describe the financial interest(s) on a separate sheet.

6. **Presenter of Abstract.** Type the name, AACR member number (if applicable), address, telephone number, and FAX number of the PRESENTER of the paper in the space provided. It is generally expected that the first author of an abstract will be its PRESENTER.

7. **Eligibility for Travel Awards.**
   A. Indicate whether the PRESENTER of the abstract is a medical student, graduate student, physician in training, or postdoctoral fellow. PRESENTERS who meet these requirements and who are first authors on abstracts rated highly by the Program Committee may be candidates for a travel award. If a PRESENTER is eligible based on the above criteria and is under consideration, a letter confirming his or her status 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. If the PRESENTER meets the criteria in the paragraph above, check this box if the PRESENTER is also Black, Hispanic, American Indian, Native Alaskan, or Native Pacific Islander. The Comprehensive Minority Biomedical Program of the National Cancer Institute funds a program of travel grants administered by the AACR to encourage participation in the annual meeting by minority groups which have traditionally been underrepresented in cancer research.

   Eligible scientists are young, full-time predoctoral 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. By action of the AACR Board of Directors, only citizens of the U.S. and Canada or scientists who are permanent residents in those countries may receive one of these NCI awards to minority scientists. Awardees will be selected on the basis of qualifications, references, and an estimation of potential benefit by an advisory committee consisting of members of AACR who will review a completed application and letters of reference. The award will consist of partial support of 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 January 26, 1996. Applicants will be chosen both from minority institutions and the larger bodies of universities and research institutions. Awardees are expected to attend at least three full days of scientific sessions. Along with their requests for reimbursement of relevant expenses, they must submit a brief report commenting on the scientific sessions they attended at the meeting.

8. **Presenter Signature.** The PRESENTER of the paper must sign the form in the space provided to give the Association permission to arrange for audiotape recording and the subsequent sale of audiotape cassettes of the papers delivered orally at the 1996 Annual Meeting. Your advance permission for this taping in the event that your paper is among those to be recorded is appreciated.

   **NOTE:** If the PRESENTER is also the SPONSOR of the abstract, he or she must sign the form on Line 3 as well as Line 8.

9. **Authorization to Charge Credit Card for US$35 Abstract Submission Fee.** If you want the Abstract Submission Fee (US$35) to be billed to your credit card, please fill in the necessary information and sign in the space provided.

| ABSTRACTS SUBMITTED IN VIOLATION OF ANY OF THE ABOVE REGULATIONS, I.E., ABSTRACTS WITHOUT A CATEGORY AND SUBCLASSIFICATION (LINE 1), WITHOUT THE NAMES OF THE SPONSOR AND PRESENTER (LINES 2 AND 6), OR WITHOUT THE REQUIRED SIGNATURES (LINES 3 AND 8) WILL BE SUBJECT TO AN ADMINISTRATIVE CHARGE OF US$35. |

**CONTENT OF ABSTRACTS**

As stated previously, 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 publish or present 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 of the presentation. Authors should be particularly cognizant of the importance of setting forth the objectives and hypotheses of the study in a clear and 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 acceptance of the paper for presentation at the annual meeting will be jeopardized.

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 purpose 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 information retrieval and online searches. Periods (not dashes or other punctuation) should be used to separate two-part titles. Abbreviations are not permitted in 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. The chemical structure, method of preparation, and patent or reference numbers of chemical compounds should be provided in the abstract.

4. Illustrations and tables are unacceptable within abstracts.

5. Supplementary data submitted along with the abstract will not be transmitted to the Program Committee for review.

**FORMAT OF ABSTRACTS**

Errors made on the original abstract form will appear in the published abstract. Therefore, careful preparation and proofreading are essential. Only abstracts submitted on the official abstract form will be considered by the Program Committee. There is a limited supply of these forms. Therefore, before the abstract is typed on the final form, all instructions and the sample abstract should be read thoroughly.

Abstracts must be prepared in accordance with the approved format demonstrated in the sample abstract (Page 12). Please note in particular the following regulations concerning format:

1. The entire abstract, including text, title, authors, and affiliations, must fit within the blue lines provided.

2. The abstract must not be mechanically reduced to fit into the box provided.

3. The first line of the title should be flush with the left margin of the abstract box.

4. The heading must include: the title of the paper with ONLY THE FIRST LETTER OF THE FIRST WORD CAPITALIZED and the rest in lower case (except where lower case is incorrect, e.g., the word "DNA"), the authors' names (as a group, with surnames first and given names last), their institutional affiliations, cities, states in abbreviated forms, zip codes, and countries. If possible, please print the title in **boldface** letters. Abbreviations are not permitted in titles. Abbreviations may be used in the body of the abstract if they follow in parentheses immediately after the term being abbreviated at the first usage of that term in the text.

5. Academic degrees should be omitted to save valuable space.

6. The abstract should be printed single spaced in one paragraph. Abstracts should not be printed using dot-matrix printers. Abstracts may be prepared using typewriters or daisy-wheel printers with a sharp black ribbon and a printing element no smaller than 12-pitch (elite). Abstracts may also be printed using laser or ink-jet printers with type no smaller than 10-point.

7. Any symbols that must be drawn by hand should be drawn with black ink.

**ABSTRACTS OR ABSTRACT HEADINGS THAT DO NOT CONFORM TO THE REQUIRED FORMAT WILL BE RETYPED AT A COST OF US$35 TO THE SPONSOR.**

**PLEASE DIRECT QUESTIONS REGARDING THE PREPARATION OF ABSTRACTS TO 215/440-9300.**

**SUBMISSION OF CORRECTED ABSTRACTS**

If after mailing your abstract you discover an error, please do not submit a corrected abstract until you have received an acknowledgment card containing the Temporary Abstract Number of your original submission. You may then submit a corrected abstract in strict accordance with the following instructions:

1. On a photocopy of the original abstract, indicate the correction(s) you are making.

2. On an official abstract form, print the full text of the revised abstract in the space provided and answer all questions on the form.

3. On both forms write your Temporary Abstract Number and the word "Resubmission" in the box in the upper right hand corner labeled Temp. Abst. No.

4. Send the corrected original abstract and the revised abstract on the official form to the address given on the next page. In addition, write or type the word "Resubmission" on the mailing envelope.

Authors may be charged for any production costs incurred as a result of abstracts being resubmitted after the Proceedings issue goes to press. The Association will not be responsible for the acceptance and processing of revised abstracts not submitted in compliance with the above regulations. No substantive changes may be made in abstracts after they have undergone scientific review, and the Association cannot accept any resubmission that will delay the publication of the Proceedings.

**MAILING INSTRUCTIONS**

1. Abstracts must be received in the office of the American Association for Cancer Research no later than December 1, 1995. Submission at an earlier date would be appreciated. The Association urges investigators working outside of the United States to send their abstracts well ahead of the deadline date or to use one of the international courier services that offer delivery within a few days. The
deadline for receipt must be applied uniformly to all abstracts regardless of their origin. **FAX or other electronic transmittals will not be accepted.**

2. The following material should accompany the official abstract form:

   A. Two (2) legible copies of the completed form.

   B. A check or purchase order for US$35 payable to the American Association for Cancer Research, Inc. All checks must be drawn on United States banks. **PLEASE LIST THE NAME OF THE PRESENTER ON YOUR CHECK OR PURCHASE ORDER.** If you wish us to charge this amount to your credit card, fill out and sign Item 9 on the abstract form.

   C. The Acknowledgment Card attached to this announcement. The names of the authors and the title of the paper should be filled in on the card prior to submission. The card will be returned to you showing the Temporary Abstract Number assigned to your abstract. This number should be referenced in all correspondence or telephone calls to the AACR Office. **PRESENTER:** To ensure receipt of the Acknowledgment Card, put your own address on the reverse of the card and affix proper postage.

   D. One stamped, regular letter-sized envelope (about 4 x 9 1/2 inches, 10.2 x 24.2 cm.) addressed to the PRESENTER. The final decision of the Program Committee concerning acceptability for presentation and publication will be returned in this envelope along with any other necessary instructions.

3. A check, purchase order, or credit card number in payment of US$35.; the original abstract form with the signatures of the SPONSOR and PRESENTER; 2 copies of the completed form; the completed, self-addressed, stamped Acknowledgment Card; and one self-addressed, stamped envelope should all be mailed unfolded and with cardboard backing in an envelope of suitable size to:

   American Association for Cancer Research, Inc.
   ATTENTION: 1996 ANNUAL MEETING ABSTRACT
   Public Ledger Building, Suite 816
   150 S. Independence Mall West
   Philadelphia, PA 19106-3483

4. Please do not enclose membership application forms, membership dues, advance registration forms, housing forms, or any other materials in the envelope with your abstract form and the related material requested in Item 3 above.

   **N.B.** Special mailing charges cannot be paid by the AACR. The AACR staff cannot assume responsibility for abstracts that are not delivered directly to the premises.

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**THE DECEMBER 1, 1995, DEADLINE WILL BE STRICTLY ENFORCED.**
1996 ABSTRACT CATEGORIES AND SUBCLASSIFICATIONS

Type the five-character code for the appropriate category and subclassification in the blocks provided on Line 1 of the Abstract Form. There is some overlap among subclassification topics across the major abstract categories. To classify your abstract, first choose the category (printed in boldface) that best describes the primary emphasis of your work. Then select an appropriate subclassification within that category. Please note that many of the traditional abstract categories have been divided into sections to facilitate the distribution of abstracts to appropriate reviewers.

The highly specific subclassifications will serve as a guide to the Program Committee in the selection and grouping of abstracts for particular sessions but will not necessarily be the actual titles of scientific sessions to be held at the annual meeting. Decisions regarding titles of sessions will be made at the discretion of the Program Committee.

BIOLOGY
Cell Cycle
BL1-01 Cell cycle checkpoints
BL1-02 Cell cycle genetic alterations
BL1-03 Other

Cell Growth and Death
BL2-01 Apoptosis
BL2-02 Biological aspects of drug resistance
BL2-03 Biomarkers
BL2-04 Cell and tissue kinetics/flow microfluorometry
BL2-05 Host-tumor relationships
BL2-06 Tumor heterogeneity

Cell Signaling
BL3-01 Cell surface receptors
BL3-02 Extracellular matrix
BL3-03 Growth factors and differentiation
BL3-04 Integrons
BL3-05 Shape and cytoskeleton
BL3-06 Signal transduction

Invasion and Metastasis
BL4-01 Angiogenesis/pathophysiology
BL4-02 Cell adhesion molecules
BL4-03 Cell motility and migration
BL4-04 Human tumor xenografts
BL4-05 Invasion and metastasis
BL4-06 Mechanisms of bone metastasis
BL4-07 Proteases and their inhibitors

CARCINOGENESIS
Biomarkers, Premalignant Lesions, Risk Assessment
CG1-01 Biomarkers of exposure to carcinogens
CG1-02 Fish carcinogenesis
CG1-03 Genetic susceptibility
CG1-04 Predictive assays for carcinogenicity
CG1-05 Premalignant lesions
CG1-06 Risk assessment and toxicology
CG1-07 Other

Carcinogen Metabolism, DNA Damage and Repair, Genetic Alterations, Mutagenesis
CG2-01 DNA adducts: identification and conformational effects
CG2-02 DNA adducts: repair and sequence specificity
CG2-03 Genetic and cytogenetic alterations in human tumor cells
CG2-04 Metabolism and activation of carcinogens in animal models
CG2-05 Metabolism and activation of carcinogens in humans
CG2-06 Molecular responses to DNA damage

Carcinogen Metabolism, DNA Damage and Repair, Genetic Alterations, Mutagenesis (cont.)
CG2-07 Mutagenesis
CG2-08 Mutational spectrum of carcinogens
CG2-09 Oxygen radicals

Promotion and Progression/Communication
CG3-01 Cellular transformation
CG3-02 Growth factors
CG3-03 Mesenchymal/epithelial interactions
CG3-04 Radiation carcinogenesis and cell signalling
CG3-05 Signal transduction
CG3-06 Tumor progression
CG3-07 Tumor promotion

CLINICAL INVESTIGATIONS
Phase I Trials
CI1-01 Phase I studies

Phase II and III Trials
CI2-01 AIDS-related malignancies
CI2-02 Brain/central nervous system cancers
CI2-03 Breast cancer
CI2-04 Colon/gastrointestinal cancer
CI2-05 Genitourinary tract cancers
CI2-06 Gynecological cancers
CI2-07 Head and neck cancer
CI2-08 Hematological malignancies
CI2-09 Lung cancer
CI2-10 Melanoma
CI2-11 Pediatric malignancies
CI2-12 Prostate cancer
CI2-13 Other

Clinical Pharmacology
CI3-01 Drug resistance
CI3-02 Hematopoietic colony-stimulating factors
CI3-03 Mechanisms of drug action in humans
CI3-04 Pharmacokinetics and pharmacodynamics
CI3-05 Primary and adjuvant chemotherapy; multimodality therapy

Other Clinical Investigations
CI4-01 Autologous and allogeneic bone marrow transplantation
CI4-02 Chemoprevention/intermediate endpoints
CI4-03 Clinical endocrinology
CI4-04 Clinical trials methodology
CI4-05 Cytogenetics and clinical molecular genetics

Other Clinical Investigations (cont.)
CI4-06 Cytokines and growth factors
CI4-07 Diagnostic/prognostic response prediction
CI4-08 Differentiation therapy
CI4-09 Etiology and natural history of tumors
CI4-10 Gene therapy
CI4-11 Oncogenes in diagnosis and prognosis
CI4-12 Prevention of second cancers
CI4-13 Supportive care
CI4-14 Surgical oncology
CI4-15 Other

ENDOCRINOLOGY AND SIGNAL TRANSDUCTION
EN1-01 Cytokines and receptors
EN1-02 Growth factors and cell surface receptors
EN1-03 Hormonal carcinogenesis
EN1-04 Hormonal control of cell growth and cell death
EN1-05 Hormone action and inhibitors
EN1-06 Hormone synthesis, metabolism, and inhibitors
EN1-07 Hormones and differentiation
EN1-08 Neuroendocrine and other endocrine factors
EN1-09 Retinoids and receptors
EN1-10 Signal transduction
EN1-11 Steroid receptors/nuclear receptors
EN1-12 Thyroid hormones and receptors

Organ Sites
EN1-13 Breast
EN1-14 Ectopic hormone production
EN1-15 Gynecological
EN1-16 Prostate/Genitourinary
EN1-17 Other
EN1-18 Other

EPIDEMIOLOGY AND PREVENTION
Epidemiology
EP1-01 Biomarkers in epidemiology
EP1-02 Cancer in minority populations
EP1-03 Descriptive epidemiology
EP1-04 Environmental and occupational etiology
EP1-05 Epidemiology of infectious agents
EP1-06 Radiation exposure and cancer risk
EP1-07 Other

Genetic Predisposition to Cancer
EP2-01 Genetic epidemiology/susceptibility
EP2-02 Molecular epidemiology
EP2-03 Risk assessment
EP2-04 Other
Prevention and Dietary Factors
EP3-01 Biological and biochemical mechanisms in prevention
EP3-02 Biomarkers and intervention studies
EP3-03 Chemoprevention
EP3-04 Diet and nutrition
EP3-05 Hormones and chemoprevention
EP3-06 Modulators of arachidonic acid metabolism
EP3-07 Molecular studies in prevention
EP3-08 Other

EXPERIMENTAL THERAPEUTICS
Drug Design, Screening, and Delivery
ET1-01 Biochemical modulators of the therapeutic index and toxicity
ET1-02 Combination chemotherapy
ET1-03 Drug design
ET1-04 Drug screening
ET1-05 Novel drug delivery systems
ET1-06 Other

Drug Resistance
ET2-01 Glutathione metabolism
ET2-02 Multidrug resistance
ET2-03 Natural products, synthetic drugs, and nucleotide analogs
ET2-04 Novel mechanisms
ET2-05 P-glycoprotein
ET2-06 Reversal of drug resistance
ET2-07 Other

Gene Therapy
ET3-01 Gene therapy

Mechanisms of Drug Action, Pharmacokinetics, Pharmacodynamics, DNA Repair
ET4-01 Mechanisms of drug action
ET4-02 Mechanisms of DNA repair
ET4-03 Pharmacokinetics, pharmacodynamics, and cellular pharmacology
ET4-04 Toxicology

Therapeutic Agents I ("small" molecules)
ETS-01 Alkylating agents
ETS-02 Antifolates
ETS-03 Chemopreventive therapeutic agents
ETS-04 Ether lipids and their antitumor properties
ETS-05 Novel antitumor agents
ETS-06 Platinum complexes
ETS-07 Purine and pyrimidine antagonists
ETS-08 Other

Therapeutic Agents II (genes, gene components, antireceptors)
ET6-01 Antireceptors
ET6-02 Antisense oligonucleotides
ET6-03 Antiviral therapy
ET6-04 Apoptosis: therapy and mechanisms
ET6-05 Growth factor receptors and other surface antigens as targets for therapy

Therapeutic Agents II (genes, gene components, antireceptors) (cont.)
ET6-06 Oncogenes, tumor suppressor genes, and gene products as targets for therapy
ET6-07 Protein kinases and phosphatases as targets for therapy
ET6-08 Other

Topoisomerases, Other DNA Reactive Agents, and Tubulin Agents
ET7-01 DNA reactive agents
ET7-02 Topoisomerases
ET7-03 Tubulin agents

IMMUNOLOGY/BIOLOGICAL THERAPY
Immunobiology
IM1-01 Animal models for tumor immunology
IM1-02 Antigenic modulation
IM1-03 Immunodeficiency/immunosuppression
IM1-04 Immunomodulation
IM1-05 Integrins and cell adhesion molecules
IM1-06 Lymphokines/cytokines
IM1-07 Nonspecific effector mechanisms
IM1-08 Specific immunomechanisms
IM1-09 Tumor antigens

Preclinical and Clinical Immunotherapy
IM2-01 Antibodies/immunoconjugates
IM2-02 Cancer vaccines
IM2-03 Cellular immunotherapy
IM2-04 Cytokines
IM2-05 Immunodiagnostics
IM2-06 Immunotherapy of human cancer
IM2-07 Other

MOLECULAR BIOLOGY/ BIOCHEMISTRY
Biochemistry
MB1-01 Cell surface receptors and the extracellular matrix
MB1-02 Enzymes and isoenzymes
MB1-03 Lipid metabolism
MB1-04 Membrane transport and function
MB1-05 Nucleotide, nucleic acid, and protein metabolism
MB1-06 Protein-DNA interactions
MB1-07 Retinoids and differentiation
MB1-08 Signal transduction

Gene Regulation
MB2-01 Antisense nucleic acids
MB2-02 Cell growth and differentiation
MB2-03 Cloning and mapping of genes and loci
MB2-04 Gene expression
MB2-05 Gene regulation
MB2-06 Transcription factors
MB2-07 Transgenic mice as models
MB2-08 Other

Genomic Alterations, Instability, and Repair
MB3-01 DNA methylation
MB3-02 Gene amplification
MB3-03 Genetic imprinting
MB3-04 Genomic instability
MB3-05 Loss of heterozygosity in neoplasia
MB3-06 Mechanisms of DNA damage and repair
MB3-07 Molecular cytogenetics
MB3-08 Radiation effects
MB3-09 Telomeres and telomeres

Oncogenes and Tumor Suppressors Genes, Viral Oncogenesis
MB4-01 Human tumor viruses
MB4-02 Molecular biology of viruses
MB4-03 Oncogenes and cancer progression, diagnosis, or prognosis
MB4-04 Oncogenes and development
MB4-05 Oncogenes and regulatory interactions
MB4-06 RNA and DNA tumor viruses
MB4-07 Tumor suppressor genes
MB4-08 Viral transformation
MB4-09 Other

RADIOBIOLOGY/RADIATION ONCOLOGY
RR1-01 Bioreductive drugs and radiation oncology
RR1-02 Cell cycle, differentiation, and apoptosis in radiation responses
RR1-03 Cytogenetics
RR1-04 Effects of radiation on membranes
RR1-05 Experimental radiotherapeutics
RR1-06 Genetic and epigenetic control of radiosensitivity
RR1-07 Hyperthermia
RR1-08 Modification of radiation sensitivity and injury
RR1-09 Molecular mechanisms/radiation-induced gene expression
RR1-10 Photobiology
RR1-11 Photodynamic therapy
RR1-12 Predictive assays for radiation sensitivity
RR1-13 Radiation and oncogenes/tumor suppressor genes
RR1-14 Radiation-drug interactions
RR1-15 Radiation-induced DNA damage, mutagenesis, and repair
RR1-16 Radiation-induced late effects
RR1-17 Radiation-induced transformation and carcinogenesis
RR1-18 Radiation resistance
RR1-19 Radiolabelled antibodies in diagnosis and localization
RR1-20 Radioprotectors and radiosensitizers
RR1-21 Tumor oxygenation and modification
RR1-22 Other
Antitumorigenic effects of a recombinant adenovirus containing the MYC antagonist MAD. Chen, J., Willingham, T., DePinho, R.*, Nisen, P.D. Univ. Texas Southwestern Med. Ctr., Dallas, TX 75235 and Albert Einstein College of Medicine, Bronx, NY.

An adenovirus vector was used to transfer the MAD gene (Ad-MAD), an antagonist of MYC-family oncogenes, into the U373MG human astrocytoma cell line. Adenovirus:β-galactosidase (AdβGal) was used to demonstrate 90-100% infectivity and expression. [3H]thymidine incorporation in AdMAD cells was decreased by 80%. The rate of cell division was 46hr (versus 29hr for AdβGal cells). Cell cycle distribution was altered: 32% of AdMADs were in G1, versus 21% for AdβGal cells. There was no effect on apoptosis. Focus formation in soft agar was dramatically inhibited in AdMAD cells. Tumor formation in nude mice readily occurred using AdβGal cells but no tumors were observed if cells were infected with AdMAD. These studies indicate that adenovirus constructs containing MAD dramatically inhibit proliferation and tumorigenicity of a human astrocytoma cell line and supports the use of this construct for gene therapy.
1. Category and Subclassification
(see Pages 10-11): Type the five-character code in the blocks provided, for example,

B L 1 - 0 1

Type abstract within blue lines. See sample abstract.

2. Abstract is SPONSORED by:

Member No. (See Directory of Members for Member No.)
Name (Please Print)
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City, State
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Country
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Fax No.
E-Mail Address

3. As the SPONSOR of this abstract and on behalf of all the authors, I hereby indicate my support for the data contained herein. I also transfer copyright of this abstract to the American Association for Cancer Research, Inc. for reproduction in both printed and electronic media.

Signature of SPONSOR

4. (Complete only if SPONSOR is an Associate Member) I, the undersigned Active or Corresponding Member in good standing, Emeritus, or Honorary Member, endorse the content of this abstract, for which the above-named Associate Member is sponsor and presenter. (See regulations applying to Associate Members on Page 6.)

Name (Please Print)
Signature Member No.

5. Identification of Financial Interests

☐ One or more of the authors of this abstract has a financial interest (see instructions) in products or processes involved in the research described. (If the box is checked, describe the financial interest(s) on a separate sheet.)

6. Abstract is to be PRESENTED by:

Member No. (If an ACR Member)
Name (Please Print)
Address
City, State
Postal Code
Country
Telephone No.
Fax No.
E-Mail Address

Signature of PRESENTER

☐ A. The PRESENTER of this abstract is a medical or graduate student, physician in training, or postdoctoral fellow.

☐ 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 7).

8. As the PRESENTER 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 1996 Annual Meeting and to collect all revenue from subsequent audiocassette sales.

Signature of PRESENTER


☐ MasterCard ☐ VISA ☐ Eurocard ☐ American Express

Card No. __________________________ Expiration Date

Please verify that you have adhered to all ACR abstract 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 abstracts submitted without the required signatures, will result in a fee of US$35 which will be billed to the SPONSOR.
1. **Category and Subclassification**

(see Pages 10-11): Type the five-character code in the blocks provided, for example,

BL1 - 01

2. **Abstract is SPONSORED by:**

(See Directory of Members for Member No.)

Name

(Please Print)

Address

City, State

Zip/Postal Code Country

Telephone No.

FAX No.

E-Mail Address

3. As the SPONSOR of this abstract and on behalf of all the authors, I hereby indicate my support for the data contained herein. I also transfer copyright of this abstract to the American Association for Cancer Research, Inc. for reproduction in both printed and electronic media.

Signature of SPONSOR

4. (Complete only if SPONSOR is an Associate Member) I, the undersigned Active or Corresponding Member in good standing, Emeritus, or Honorary Member, endorse the content of this abstract, for which the above-named Associate Member is sponsor and presenter. (See regulations applying to Associate Members on Page 6.)

Name

(Please Print)

Signature Member No.

5. **Identification of Financial Interests**

☐ One or more of the authors of this abstract has a financial interest (see instructions) in products or processes involved in the research described. (If the box is checked, describe the financial interest(s) on a separate sheet).

6. **Abstract is to be PRESENTED by:**

(If an AACR Member.)

Name

(Please Print)

Address

City, State

Zip/Postal Code Country

Telephone No.

FAX No.

E-Mail Address

7. **Eligibility for Travel Awards**

☐ A. The PRESENTER of this abstract is a medical or graduate student, physician in training, or postdoctoral fellow.

☐ 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 7).

8. As the PRESENTER 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 1996 Annual Meeting and to collect all revenue from subsequent audiocassette sales.

Signature of PRESENTER

9. **Authorization to Charge Credit Card for US$35 Abstract Submission Fee.**

☐ MasterCard ☐ VISA ☐ Eurocard ☐ American Express

Card No. Expiration Date

Cardholder Name (PRINT) Signature

Please verify that you have adhered to all AACR abstract 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 abstracts submitted without the required signatures, will result in a fee of US$35 which will be billed to the SPONSOR.
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, focused 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:

<table>
<thead>
<tr>
<th>Receipt of Application</th>
<th>Notification of Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>AACR Office</td>
<td>March</td>
</tr>
<tr>
<td>January 1</td>
<td></td>
</tr>
<tr>
<td>May 1</td>
<td>July</td>
</tr>
<tr>
<td>September 1</td>
<td>November</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, corresponding, emeritus, or honorary member of the AACR (at least one copy must be a signed, original letter). This letter should describe the candidate's achievements in laboratory research, clinical investigations, or epidemiological research, and it should affirm that this research adheres to accepted ethical standards. OR--The nominator may 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 secondor who is an active, corresponding, emeritus, or honorary member of the AACR (at least one copy must be a signed, original letter). OR--The secondor may 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 1996 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 1996) 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

NAME OF CANDIDATE: ___________________________  DATE OF BIRTH: ____________

LAST    FIRST    M.I.

RECENT POSITION/TITLE: ___________________________

INSTITUTIONAL AFFILIATION: ___________________________

INSTITUTIONAL ADDRESS: ___________________________

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

TELEPHONE NUMBER: ___________________________  FAX NUMBER: ___________________________

E-MAIL NUMBER: ___________________________  E-MAIL NUMBER (CARRIER): ___________________________

RIMARY 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)

CADEMIC DEGREES (Including where and when granted)

__ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ 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QUALIFICATIONS FOR MEMBERSHIP

Associate membership is open to graduate students, medical students, postdoctoral fellows, and physicians in training who are allowing 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, Clinical Cancer Research, Cell Growth & Differentiation, and Cancer Epidemiology, Biomarkers & Prevention 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 are currently $35 for associate members residing in the Americas and $45 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 $35 or $45 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 1995 and 1996 have been set at $35 per year for residents of the Americas and $45 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 November 1995 for the forthcoming annual meeting must have paid dues for 1995. Any newly elected associate members of the AACR who have already purchased subscriptions to Cancer Research, Clinical Cancer Research, Cell Growth & Differentiation, and 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 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 1995 may retain associate membership until December 31, 1999. 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
APPLICATION FOR ASSOCIATE MEMBERSHIP

NAME OF CANDIDATE: ___________________________  DATE OF BIRTH: _____________

LAST       FIRST       M.I.

STITUTIONAL AFFILIATION: ________________________________

STITUTIONAL ADDRESS: ____________________________________________

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

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.)

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

NATURES 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.

Nature 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.

Nature of Nominator*: ___________________________  Date: ___________________________

Submit three copies of this form. At least one copy must contain the original signatures of the candidate and the nominator.

A check in U.S. funds, made payable to AACR, Inc., and drawn on a U.S. bank for one year's dues. Dues are currently $35 for associate members residing in the Americas and $45 for residents of other countries.

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

☐ enclosed dues payment should be applied to the □ current □ forthcoming calendar year.

OTE: 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.

(This form may be reproduced.)
AMERICAN ASSOCIATION FOR CANCER RESEARCH

1996 EMPLOYMENT REGISTER FORMS AND INSTRUCTIONS

INTRODUCTION
The AACR’s Employment Register is intended to attract young scientists to the Association, increase interest in AACR programs, and provide a valuable service to all cancer researchers, both senior and junior investigators.

Since 1988, AACR Staff has scheduled interviews at the annual meeting, and brief advertisements describing available candidates and positions have been published in the Proceedings of the American Association for Cancer Research and in three issues of Cancer Research. These services will be continued in 1996. Registration forms for the 1996 Employment Register can be found on the following pages. Fees have been set at the following levels:

Each candidate registration
- by an AACR member $10
- by a nonmember $25

Each position listing
- by an AACR member from a nonprofit or governmental organization $75
- by a nonmember from a nonprofit or governmental organization $125
- by a commercial organization $275
($225 for companies participating in the 1996 AACR Exhibit Show)

INSTRUCTIONS FOR CANDIDATES
1. Supply all information requested on the attached candidate registration form.
2. Type a short description of your background and the position you are seeking in the 5” X 1¼” box provided. Do not include your name; the AACR will assign identification numbers to all candidate listings. Please type carefully; this description will be reproduced as described in the section below entitled PUBLICATION OF LISTINGS.
3. Enclose the original form plus 1 copy.
4. Enclose appropriate payment:
   a. $10 from AACR members
   b. $25 from nonmembers
5. Checks should be issued in U.S. dollars, drawn on a U.S. bank, and made payable to AACR, Inc.
6. Forms should be submitted by January 8, 1996, to ensure publication of listings in the Proceedings. However, candidate registration forms will continue to be accepted in the Association Office until March 29, 1996. After that date forms should be submitted at the annual meeting.
7. Mail all position listing forms to:
   Employment Register
   American Association for Cancer Research, Inc.
   Public Ledger Building, Suite 816
   150 S. Independence Mall West
   Philadelphia, PA 19106-3483

INSTRUCTIONS FOR EMPLOYERS
1. Complete a separate position listing form for each position available and supply all information requested.
2. Type a short description of the position available in the 5” X 1¼” box provided. Please type carefully; this description will be reproduced as described in the section below entitled PUBLICATION OF LISTINGS.
3. Enclose the original form plus 1 copy.
4. Enclose appropriate payment for each position listed:
   a. $75 from AACR members in nonprofit or governmental organizations,
   b. $125 from nonmembers in nonprofit or governmental organizations,
   c. $275 from commercial firms ($225 from firms participating in the 1996 AACR Exhibit Show).
5. Checks should be issued in U.S. dollars, drawn on a U.S. bank, and made payable to AACR, Inc.
6. Forms should be submitted by January 8, 1996, to ensure publication of listings in the Proceedings. However, position listing forms will continue to be accepted in the Association Office until March 29, 1996. After that date forms should be submitted at the annual meeting.
7. Mail all position listing forms to:
   Employment Register
   American Association for Cancer Research, Inc.
   Public Ledger Building, Suite 816
   150 S. Independence Mall West
   Philadelphia, PA 19106-3483

SCHEDULING OF INTERVIEWS
The AACR will set aside space at the annual meeting for interviews which will be scheduled at mutually agreeable times during the following hours: Saturday, April 20, from 1:00-7:00 p.m.; Sunday, Monday, and Tuesday, April 21-23, from 8:00 a.m. to 5:00 p.m.; and Wednesday, April 24, from 9:00 a.m. to 1:00 p.m. Each candidate and employer will receive an identification number. Registrants who submit their forms and fees by March 29, 1996, will receive an acknowledgment card which contains their identification number.

PUBLICATION OF LISTINGS
Short advertisements describing each candidate and position listing will be published in Volume 37 (1996) of the Proceedings of the American Association for Cancer Research and in the July 1, September 1, and November 1, 1996, issues of Cancer Research. The attached forms contain space for copy for these advertisements. Please type carefully to ensure accurate reproduction of your advertisement. Your copy must not exceed the limits of the box because space for these advertisements is limited. Advertisements for available positions should contain the name and address of the person conducting the job search, and candidates will be able to communicate with that person directly. Candidate advertisements will be anonymous. The AACR will send the candidate’s complete form via first-class mail to any registered employer who requests it. The employer must bear the cost of receiving candidate forms in any manner other than first-class mail.

As noted above, because of the early publication date of the Proceedings, forms must be received by January 8, 1996, to ensure publication in that document. However, all advertisements submitted before or during the meeting will be published in the three issues of Cancer Research. Registrants wishing to withdraw their advertisements must submit written requests to that effect to the Association Office by May 15, 1996, for the July 1 issue; July 15, 1996, for the September 1 issue; and September 16, 1996, for the November 1 issue. All participants in the Employment Register are urged to notify the Association immediately of any change in their status so that all listings will remain current.

FURTHER INFORMATION
Questions about the Employment Register may be directed to the Association Office at 215-440-9300.
POSITION LISTING

AMERICAN ASSOCIATION FOR CANCER RESEARCH
EMPLOYMENT REGISTER

(Please type and submit original and 1 copy plus payment)

DESCRIPTION OF POSITION

Title______________________________
Nature of Work and Responsibilities (research, teaching, administration, etc.)

Education and Experience Required

Date Position Available______________________ Annual Salary Range________________
Location of Position___________________________

Areas of Specialization
(Indicate a maximum of three in order of greatest activity)

___¹Biochemistry & Biophysics  ___²Carcinogenesis  ___³Cellular Biology & Genetics  ___⁴Clinical Investigations
___⁵Endocrinology  ___⁶Epidemiology  ___⁷Experimental Therapeutics  ___⁸Immunology
___⁹Molecular Biology & Genetics  ___¹⁰Prevention  ___¹¹Radiobiology/Radiation Oncology
___¹²Virology  ___¹³Other (please specify):______________

EMPLOYER’S REPRESENTATIVE(S)  AACR Member Number

Name(s) and Title(s)__________________________
Institution__________________________________
Address____________________________________
Telephone___________________________________

AVAILABILITY FOR INTERVIEWS AT AACR ANNUAL MEETING

I ___plan ___do not plan to attend the AACR Annual Meeting in Washington, DC.
Dates available for interviews: ___April 20  ___April 21  ___April 22  ___April 23  ___April 24

ADVERTISEMENT (Please type a short description of the position in the box below. If received by January 8, 1996, your advertisement will be printed in the 1996 Proceedings. All advertisements will appear in the July 1, September 1, and November 1, 1996, issues of Cancer Research.)


(This form may be reproduced)

22s
CANDIDATE REGISTRATION

AMERICAN ASSOCIATION FOR CANCER RESEARCH
EMPLOYMENT REGISTER

(Please type and submit original and 1 copy plus payment)

TYPE OF POSITION DESIRED (Check all that apply)

___ Postdoctoral  ___ Physician in Training  ___ Research Associate/Staff Scientist  ___ Faculty

TYPE OF INSTITUTION DESIRED (Check all that apply)

___ Industry  ___ Academic  ___ Government

Name:______________________________________________  AACR Member Number

Last  First  M.I.

Business Mailing Address:________________________________________  Major Field:________________________

________________________________________  Highest Degree:________________________  Year Obtained:

Bus. Telephone________________________  Citizenship________________________

Type of Visa________________________  Desired Salary________________________

Date Available________________________  Geographic Preference________________________

Areas of Specialization

(Indicate a maximum of three in order of greatest activity)

___1 Biochemistry & Biophysics  ___2 Carcinogenesis  ___3 Cellular Biology & Genetics  ___4 Clinical Investigations

___5 Endocrinology  ___6 Epidemiology  ___7 Experimental Therapeutics  ___8 Immunology

___9 Molecular Biology & Genetics  ___10 Prevention  ___11 Radiobiology/Radiation Oncology

___12 Virology  ___13 Other (please specify):________________________

ADVERTISEMENT (Please type a short description of your background and the position you are seeking in the box below. If received by January 8, 1996, your advertisement will be printed in the 1996 Proceedings. All advertisements will appear in the July 1, September 1, and November 1, 1996, issues of Cancer Research. DO NOT GIVE YOUR NAME OR ADDRESS; the AACR will assign identification numbers to each advertisement.)


(over)
### ACADEMIC TRAINING

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<tr>
<th>College or University</th>
<th>From/To</th>
<th>Major</th>
<th>Minor</th>
<th>Degree(s)</th>
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### POSITIONS HELD

(List in chronological order, current position first)

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<th>Position/Nature of Duties</th>
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### PUBLICATIONS

(List five most recent; include titles and co-authors)

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### OTHER

(List specific areas of expertise, professional societies, honors, etc.)

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### REFERENCES

(Give name and business address)

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### AVAILABILITY FOR INTERVIEWS AT AACR ANNUAL MEETING

I  ____ plan  ____ do not plan to attend the AACR Annual Meeting in Washington, DC.

Dates available for interviews:  ____April 20  ____April 21  ____April 22  ____April 23  ____April 24

(This form may be reproduced)
CALL FOR RESERVATIONS EARLY!
DEADLINE - MARCH 21, 1996

General Information
Please read this page before calling the Washington Convention and Visitors Association (WCVA) Housing Service.

Deposits
A $125.00 per room deposit is required, payable by credit card or check.

- **Credit card** - Your credit card will be charged immediately. Most major credit cards are accepted. Your room confirmation will be sent upon acceptance of your credit card charge.

- **Check** - An invoice for the $125.00 per room deposit will be mailed to you. Payment must be received within 15 days of the invoice date or your reservation will be cancelled. Do not send payment without an invoice stub. Your room confirmation will be sent upon receipt of check.

Changes
- Prior to March 21, 1996, all changes should be made with the WCVA Housing Service. After March 21, changes should be made with the hotel.

Cancellations/Refunds
- Cancellations made prior to March 21, 1996 should be made with the WCVA Housing Service and will be refunded in full. The WCVA Housing Service will issue the refund.

- Cancellations made after March 21, and prior to 72 hours of arrival should be made with the hotel. A $10.00 service fee will be deducted from your deposit. The hotel will issue the refund.

Instructions
Call the WCVA Housing Service, Monday through Friday, from 9:00 a.m. to 5:00 p.m. Eastern Time. The hotels will not accept reservations directly.

- Conferences in the United States and Canada -- call 1-800-535-3336.
- Conferences in the Washington, D.C., area and International Conferences -- call 202-842-2930.
- International Conferences ONLY -- FAX 202-289-8079.

Tell the WCVA Housing Service operator you are calling for the **AACR Annual Meeting** hotel reservations. Please have the following information ready:

1. Hotel preference (1st, 2nd, and 3rd choices)
2. Arrival and departure dates and times (indicate arrival after 6:00 p.m.)
3. Number of rooms required
4. Accommodations desired
   - Single
   - Double (1 bed, 2 people)
   - Twin (2 beds, 2 people)
   - Triple
   - Quad (2 double beds, 4 people)
   - Suite
5. Number of people in party
6. Credit card name, account number, name as it appears on card, and expiration date
7. Names of all occupants of room(s)
8. Address
9. Daytime telephone number with area code
10. FAX number with area code
11. Special requests (disability, smoking/nonsmoking, king-size bed, etc.)

Inquiries
Washington Convention & Visitors Association
Housing Service
1212 New York Avenue, N.W.
Washington, D.C. 20005-3992
## HOTELS IN WASHINGTON, D.C.
### RESERVING ROOMS FOR AACR REGISTRANTS

<table>
<thead>
<tr>
<th>MAP NUMBER</th>
<th>HOTEL NAME</th>
<th>SINGLE</th>
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<tbody>
<tr>
<td>1</td>
<td>Grand Hyatt Washington*</td>
<td>$168</td>
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<tr>
<td>2</td>
<td>Renaissance Washington, D.C. Hotel*</td>
<td>$154</td>
<td>$174</td>
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<td></td>
<td>Main Hotel</td>
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<tr>
<td></td>
<td>Renaissance Club - Tower</td>
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<tr>
<td>3</td>
<td>The Bellevue Hotel</td>
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<td>$124</td>
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<tr>
<td>4</td>
<td>The Capital Hilton</td>
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<td>$199</td>
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<td>5</td>
<td>The Comfort Inn</td>
<td>$99</td>
<td>$99</td>
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<tr>
<td>6</td>
<td>Days Inn Downtown</td>
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<tr>
<td>7</td>
<td>The Henley Park Hotel</td>
<td>$157</td>
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<tr>
<td>8</td>
<td>Holiday Inn Central</td>
<td>$105</td>
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<td>9</td>
<td>Holiday Inn Franklin Square</td>
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<tr>
<td>10</td>
<td>Holiday Inn on the Hill</td>
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<td>11</td>
<td>Hotel Washington</td>
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<td>12</td>
<td>Marriott at Metro Center</td>
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<td>The Washington Court</td>
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<tr>
<td>16</td>
<td>The Washington Vista</td>
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<td>$165</td>
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</tbody>
</table>

*Co-Headquarters

ALL RATES ARE SUBJECT TO A 13% DISTRICT OF COLUMBIA TAX AND A $1.50 OCCUPANCY TAX PER ROOM PER NIGHT.
MAP OF WASHINGTON, D.C. SHOWING HOTELS RESERVING ROOMS FOR AACR REGISTRANTS

Key
A. White House
B. Union Station
C. U.S. Capitol
D. Smithsonian Institution
E. Jefferson Memorial
F. Washington Monument
G. Lincoln Memorial
H. Department of State
I. Arlington Cemetery
J. Supreme Court
K. Library of Congress

Numbers in circles correspond to hotels listed on opposite page.
AMERICAN ASSOCIATION FOR CANCER RESEARCH

1995-1996 TRAVEL AWARDS FOR YOUNG INVESTIGATORS

Supported in part by AACR, WICR, The Gerald B. Grindey Memorial Fund, and the Comprehensive Minority Biomedical Program of the NCI; Additional Sponsors to be Announced

- **Corporate- and ACR-sponsored Travel Awards** are offered to the AACR Annual Meeting for medical and graduate students, physicians in training, and postdoctoral fellows who are presenters of abstracts that have been highly rated by the Program Committee. For further information, consult the Call for Abstracts, sent each Fall to all AACR members and nonmembers who request it.

- In 1996, the AACR will also offer the first **Gerald B. Grindey Memorial Travel Award** to the Annual Meeting for a particularly deserving young scientist submitting an abstract in the field of preclinical science.

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

- **WICR Student/Trainee Travel Awards** are available for graduate and medical students, physicians in training, and postdoctoral fellows who have submitted an abstract for the Annual Meeting and have been nominated by a member in good standing of Women in Cancer Research (WICR). For further information please call Dr. Mary Jean Sawey at (215) 898-0270.

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

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

For Further Information:

AMERICAN ASSOCIATION FOR CANCER RESEARCH
Public Ledger Building, Suite 816
150 South Independence Mall West
Philadelphia, PA 19106-3483
Telephone: (215) 440-9300
FAX: (215) 440-9313/e-mail: aacr@aol.com
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EACH VIDEO PROGRAM CONSISTS OF ONE VIDEO, $39.00 UNLESS OTHERWISE NOTED

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☐ CAN 529V Presidential Address: There’s More Than One Way to Skin a Cat or Regulation of the Polycyclic Hydrocarbon-inducible Cytochrome P450IA1 Gene, Edward Bresnick; Presentation of the Third Gertrude Elion Cancer Research Award

☐ CAN 546V Fourth American Cancer Society Award Lecture: Inherited Susceptibility to Cancer: From Epidemiology to Interventional Research, Frederick P. Li

☐ CAN 587V Fourteenth Cornelius P. Rhoads Memorial Award Lecture: Mapping Genes and Genomes: Genetic Dissection of Complex Traits, Eric S. Lander

☐ CAN 5103V Fourteenth Bruce F. Cain Memorial Award Lecture: Initiatives with Platinum- and Quinazoline-based Antitumor Molecules, Kenneth R. Harrap

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☐ AMEX EXPIRATION DATE ___________

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**ADVANCE REGISTRATION FORM**

**AMERICAN ASSOCIATION FOR CANCER RESEARCH**

**87TH ANNUAL MEETING - WASHINGTON, DC - April 20-24, 1996**

Return to  
American Association for Cancer Research • Public Ledger Building, Suite 816  
150 S. Independence Mall West • Philadelphia, PA 19106-3483 • FAX: 215-440-7228

**DEADLINES:**  
• March 1, 1996 for reduced rates and to ensure receipt of meeting materials by mail in late March or early April  
• March 25, 1996 for all registration by mail (Registration forms received after this date will not be accepted. Registration will be conducted at the Washington Convention Center from April 20-24.)  
• April 17, 1996 to cancel registration and receive refund less cancellation fee ($35)  

(please print)

**NAME:**  
Last  
First/Middle Initial  
AACR Member Number

**ADDRESS:**  
Institution

Street, Building, or Post Office Box

City  
State or Province  
Zip/Postal Code  
Country (if not U.S.)

**TELEPHONE NO.:**  
**FAX NO.:**

☐ Check this box if you have a physical disability and have special requirements for transportation, hotel accommodations, or other facilities in connection with the meeting. A member of the Association Staff will contact you.

**WHAT IS YOUR PRIMARY FIELD OF RESEARCH (Please check only one):**  
☐ Biochemistry and Biophysics  
☐ Carcinogenesis  
☐ Cellular Biology & Genetics  
☐ Clinical Investigations  
☐ Endocrinology  
☐ Epidemiology  
☐ Experimental Therapeutics  
☐ Immunology  
☐ Molecular Biology & Genetics  
☐ Prevention  
☐ Radiobiology/Radiation Oncology  
☐ Virology  
☐ Other (please specify):

**ARE YOU THE PRESENTER OF AN ABSTRACT SUBMITTED FOR THE 1996 AACR MEETING?**  
☐ Yes  
☐ No

**ON WHICH DAYS WILL YOU ATTEND THE 1996 AACR ANNUAL MEETING?**  
☐ Saturday, April 20
☐ Sunday, April 21
☐ Monday, April 22
☐ Tuesday, April 23
☐ Wednesday, April 24

**PAYMENT OF REGISTRATION**

Fees may be paid by check or with a MasterCard, VISA, American Express, or Eurocard account. All payments must be made in U.S. currency, and all checks must be drawn on a U.S. bank. Payment must accompany this form; purchase orders will not be accepted as payment.

<table>
<thead>
<tr>
<th>On or Before March 1</th>
<th>After March 1</th>
<th>METHOD OF PAYMENT</th>
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<tr>
<td>Active/Corresponding Member Rate</td>
<td>$135</td>
<td>$170</td>
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<tr>
<td>Nonmember Rate (includes copy of AACR Proceedings)</td>
<td>$270</td>
<td>$340</td>
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<tr>
<td>Emeritus Member Rate</td>
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<td>Predoctoral Student Rate*</td>
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☐ MasterCard  
☐ VISA  
☐ American Express  
☐ Eurocard

Person/Institution Issuing Check  
Check No.  
Card Number  
Expiration Date

*An application for Associate Membership may accompany this form, but these should be submitted well before the March 1 deadline, as review of the Associate Membership application may delay registration.

*Students must enclose a statement, signed by the registrar, dean, or department head of their university or college on official letterhead, confirming their status. Postdoctoral fellows or physicians in training do not qualify for the student registration rate.

*AACR members with paid-up subscriptions to an AACR journal and registrants who pay the nonmember fee receive the Proceedings automatically. If these members or nonmembers check this box and pay the fee, they will receive an additional copy of the Proceedings.

*Optional payment for registrants outside of the U.S. and Canada only. Registrants paying this surcharge will receive meeting publications via airmail—printed matter before the annual meeting. This service is not available after March 1.

AACR members in good standing will receive copies of the Program and Proceedings prior to the meeting. Nonmember and student registrants who meet the March 1 deadline will also receive the Program and (if they have purchased it) the Proceedings prior to the meeting. Nonmembers and students who do not meet the deadline must pick up publications at the meeting site.

**REFUND POLICY**

Refunds on registration fees will be granted on written request received in the AACR Office by April 17, 1996. Requests received after this date will not be honored. Receipts and badges (if they have been mailed) must be returned to the AACR Office with the refund request. A cancellation fee of $35 will be deducted from all refunds to cover administrative costs.

(This form may be reproduced.)
AMERICAN ASSOCIATION FOR CANCER RESEARCH
SCIENTIFIC CONFERENCES

NOVEMBER 17-21, 1995
Novel Strategies Against Resistant Cancers
Chairpersons: Victor Ling, Vancouver, B.C., Canada; Daniel D. Von Hoff, San Antonio, TX
Sanibel Harbour Resort & Spa, Ft. Myers, FL

DECEMBER 2-6, 1995
The Molecular Basis of Gene Transcription
Chairperson: Tom Curran, Memphis, TN
Hotel Del Coronado, San Diego, CA

JANUARY 17-20, 1996
Cancer and the Cell Cycle
Joint Meeting with the Swiss Institute for Experimental Cancer Research
Chairpersons: Edward E. Harlow, Charlestown, MA; Viesturs Simanis, Lausanne, Switzerland
Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland

FEBRUARY 19-25, 1996
Cancer Susceptibility Genes and Molecular Carcinogenesis
Chairpersons: Curtis C. Harris, Bethesda, MD; Allan Balmain, Glasgow, Scotland; Kenneth Olden, Research Triangle Park, NC
Keystone Resort, Keystone, CO

MARCH 1-5, 1996
Proteases and Protease Inhibitors in Cancer
Chairpersons: Lynn M. Matisian, Nashville, TN; Bonnie F. Sloane, Detroit, MI
Marriott's Bay Point Resort, Panama City Beach, FL

APRIL 20-24, 1996
87th Annual Meeting
Chairperson: Lorraine J. Gudas, New York, NY
Washington D.C. Convention Center, Washington, D.C.
Abstract Deadline: December 1, 1995

JUNE 8-12, 1996
Inducible Genomic Responses
Chairpersons: William T. Beck, Memphis, TN; John A. Hickman, Birmingham, England; Richard I. Morimoto, Evanston, IL
Skamania Lodge, Stevenson (Columbia River Gorge), WA

OCTOBER 2-6, 1996
Novel Approaches in Blood and Marrow Transplantation
Second Annual Meeting of the American Society for Blood and Marrow Transplantation
Chairpersons: O. Michael Colvin, Durham, NC; Bruce R. Blazar, Minneapolis, MN
Hotel Del Coronado, San Diego, CA

OCTOBER 6-9, 1996
Carcinogenesis from Environmental Pollution: Assessment of Human Risks and Strategies for Prevention
Joint Meeting with International Agency for Research on Cancer
Chairpersons: Frederica Perera, New York, NY; Paul Kleihues, Lyon, France
Hotel Gellért, Budapest, Hungary

OCTOBER 19-23, 1996
Programmed Cell Death
Chairperson: Stanley J. Korsmeyer, St. Louis, MO
The Sagamore, Bolton Landing (Lake George), NY

JANUARY 17-21, 1997
Disrupted Transcription Factors in Cancer
Chairpersons: Peter K. Vogt, La Jolla, CA; Frank J. Rauscher III, Philadelphia, PA
Hotel Del Coronado, San Diego, CA

FEBRUARY 13-16, 1997
Growth Factors and Cancer
Joint Meeting with Lorne Cancer Congress
Chairpersons: Antony Burgess, Parkville, Victoria, Australia; Robert S. Coffey, Nashville, TN; Ashley R. Dunn, Parkville, Victoria, Australia; Raymond L. White, Salt Lake City, UT
Erskine House, Lorne, Victoria, Australia

AACR members will receive brochures on the above special conferences as soon as they are available. Nonmembers should call or write:

American Association for Cancer Research
Public Ledger Building, Suite 816
150 South Independence Mall West
Philadelphia, PA 19106-3483
215-440-9300 • 215-440-9313 (FAX)
E-Mail: aacr@aol.com
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Thea D. Thity

Until 1998
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Michael M. Gottesman
Ann R. Kennedy
Frederick P. Li

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Michael B. Kastan
Ralph R. Weichselbaum

Cell Growth and Death Section
Ronald N. Buijk, Chairperson
Khandan Keyomarsi
Barbara K. Vonderhaar

Cell Signaling Section
Barrett J. Rollins, Chairperson
Channing Der
Bruce R. Zetter

Invasion and Metastasis Section
Ruth J. Muschel, Chairperson
Mary J. C. Hendrix
Avraham Raz

CARCINOGENESIS SUBCOMMITTEE
Biomarkers, Premalignant Lesions, Risk Assessment Section
Regina M. Santella, Chairperson
Stephen Neukom
Additional member to be appointed

Carcinogen Metabolism, DNA Damage and Repair, Genetic Alterations, Mutagenesis Section
Peter M. Blumberg, Chairperson
Lucy M. Anderson
Elizabeth Green Snyderwine

Promotion and Progression/Communication Section
Susan Jaken, Chairperson
Robert C. Smart
Additional member to be appointed

CLINICAL INVESTIGATIONS SUBCOMMITTEE
Phase I Trials Section
Elizabeth A. Eisenhauer, Chairperson
Susan G. Arnbuck
Eric K. Rowinsky

Phase II and III Trials Section
Fernando Cabanillas, Chairperson
Gabriel Lopez-Berestein
Raymond P. Warrell, Jr.

Clinical Pharmacology Section
Robert B. Diasio, Chairperson
Peter C. Adamson
Mark J. Ratain

Other Clinical Investigations Section
Christopher J. Logothetis, Chairperson
Scott M. Lippman
Additional member to be appointed

ENDOCRINOLOGY AND SIGNAL TRANSDUCTION SUBCOMMITTEE
Suzanne A. W. Fugua, Chairperson
Shusung Liao
Gerald Litwack
Frances M. Sladek
Douglas Yee

EPIDEMIOLOGY AND PREVENTION SUBCOMMITTEE
Epidemiology Section
Brian E. Henderson, Chairperson
Laurence N. Kolonel
Alice S. Whittemore

Genetic Predisposition to Cancer Section
Louise C. Strong, Chairperson
Kenneth H. Buetow
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Cancer Susceptibility Genes and Molecular Carcinogenesis

February 19-25, 1996
The Keystone Resort, Keystone, Colorado

Keynote Address
Harold E. Varmus / Bethesda, MD

Genetic Susceptibility of Animal Models - Inbred Strains
William F. Dove / Madison, WI
Norman R. Drinkwater / Madison, WI
Cheryl Lyn Walker / Smithville, TX
Peter Demant / Amsterdam, The Netherlands

Genetic Susceptibility of Animal Models - Transgenic and Knockout
Douglas Hanahan / San Francisco, CA
Tyler E. Jacks / Cambridge, MA
Michael P. Rosenberg / Research Triangle Park, NC

Genetic Susceptibility of Humans - Xenobiotic Metabolism
Frank J. Gonzalez / Bethesda, MD
Fred F. Kadlubar / Jefferson, AR
Peter G. Shields / Bethesda, MD
C. Roland Wolf / Dundee, Scotland

Genetic Susceptibility of Humans - DNA Repair
Isabel Mellon / Lexington, KY
Jan H. Hoeljmakers / Rotterdam, The Netherlands
Richard D. Kolodner / Boston, MA

Genetic Susceptibility of Humans - Tumor Suppressor Genes
David P. Lane / Dundee, Scotland
Louise C. Strong / Houston, TX
Curtis C. Harris / Bethesda, MD
Richard D. Klausner / Bethesda, MD

Senescence and Terminal Differentiation
J. Carl Barrett / Research Triangle Park, NC
Jerry W. Shay / Dallas, TX
Jennifer A. Pietenpol / Nashville, TN
Harold L. Moses / Nashville, TN

Apoptosis
Tona M. Gilmer / Research Triangle Park, NC
Judith Campisi / Berkeley, CA
Michael B. Kastan / Baltimore, MD
Eileen White / Piscataway, NJ
Scott W. Lowe / Cambridge, MA

Molecular Carcinogenesis in Animal Models and Humans - Skin
Allan Balmain / Glasgow, Scotland
Douglas E. Brash / New Haven, CT

Molecular Carcinogenesis in Animal Models and Humans - Liver and Breast
Kenneth Olden / Research Triangle Park, NC
Henry C. Pitot / Madison, WI
Xin W. Wang / Bethesda, MD
Roger W. Wiseman / Research Triangle Park, NC
Mary-Claire King / Seattle, WA

Molecular Carcinogenesis in Animal Models and Humans - Brain
Terry A. Van Dyke / Chapel Hill, NC
Paul Kleihues / Lyon, France

Applicants are encouraged to submit abstracts for poster presentation.

Information and Application Forms
American Association for Cancer Research
Public Ledger Building, Suite 816
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Chair, Department of Oncology
Faculty of Medicine
The University of Alberta recently approved the establishment of the Department of Oncology, and the Faculty of Medicine now invites applications to a full-time academic tenured position as Chair of the department. The successful candidate will hold either a M.D and/or Ph.D degree and, if the candidate is clinically qualified, must be eligible for licensure in the province of Alberta. The candidate must have strong leadership and management skills. Responsibilities include the encouragement of exemplary clinical and educational programs for the undergraduate, graduate and postgraduate training programs, and the necessary experience to stimulate research programs spanning the basic and clinical arenas. The principal site for the Department of Oncology is at the Cross Cancer Institute, which has its own Director who is responsible to the Alberta Cancer Board for the clinical activities of the Institute.

The starting date for the position is July 1, 1996. Interested candidates may submit a curriculum vitae including their current research interests and proposed future directions together with the names of addresses of three referees by December 15, 1995 to:
Dr. D. Lorne J. Tyrell, Dean
Faculty of Medicine
University of Alberta
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AMERICAN ASSOCIATION FOR CANCER RESEARCH

The American Association for Cancer Research (AACR) is a professional society of over 10,600 scientists and physicians involved in all aspects of basic, clinical, and translational cancer research. Members of the AACR enjoy

- subscriptions to Cancer Research, Cell Growth & Differentiation (CG&D), Cancer Epidemiology, Biomarkers & Prevention, and Clinical Cancer Research at reduced member rates
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AMERICAN ASSOCIATION FOR CANCER RESEARCH

1996 RESEARCH FELLOWSHIPS

For Young Scientists at the Postdoctoral or Clinical Fellow Level

The purpose of the AACR’s 1996 Research Fellowship in Clinical/Translational Research, sponsored by Amgen, Inc. and its 1996 Research Fellowship in Basic Research is to foster meritorious clinical, translational, or basic research in the U.S. or Canada by a young scientist currently at the postdoctoral or clinical research fellow level. Candidates must have been a fellow for at least two years but no more than five years prior to the beginning of the award year (July 1996). Academic faculty holding the rank of assistant professor or higher, graduate or medical students, government employees, and employees of private industry are not eligible.

Terms: Both Fellowships provide a one-year grant of $30,000. Candidates must be nominated by a member of the AACR and submit a detailed application.

Deadline: February 15, 1996

For application information contact:
Jenny Anne Horst-Martz
American Association for Cancer Research
Public Ledger Building, Suite 816
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1996 GERTRUDE ELION CANCER RESEARCH AWARD

Supported by an Educational Grant from
Glaxo Wellcome Oncology

• This Award was established in honor of Nobel Laureate Dr. Gertrude Elion, Scientist Emeritus at Glaxo Wellcome Co. and Past President and Honorary Member of the AACR.

• The Gertrude Elion Cancer Research Award is a one-year, $30,000 grant for a scientist in the U.S. or Canada engaged in meritorious basic, clinical, or translational research in cancer etiology, diagnosis, treatment, or prevention at the level of non-tenured Assistant Professor.

• The AACR will reimburse the Awardee for travel to the 1996 Annual Meeting in Washington, D.C., where Dr. Elion will personally present this Award.

Eligibility

Candidates must have completed postdoctoral studies or clinical fellowships not later than July 1 of the Award year, and ordinarily not more than five years earlier. Tenured faculty in academia, government employees, and employees of private industry are not eligible for this award. A Candidate need not be a member of the AACR at the time of application, but must be nominated by a Member of the AACR. Associate Members may not be nominators.

Selection Process

Applications are evaluated by a Committee consisting of AACR Members who are experts in basic, clinical, and translational cancer research. Complete applications must be submitted by February 15, 1996, to be considered for the 1996 Award.

For Further Information/Application Forms

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