

Monoclonal Anti-MEK1

MEK (MAP kinase or ERK Kinase) is also known as MAP kinase kinase (MAPKK). MEK1 is a dual tyrosine/threonine kinase that phosphorylates and activates MAP kinase (ERK1 and ERK2).⁽¹⁾ It has been shown that MEK1 is phosphorylated and activated by several serine/threonine kinases, these include; c-raf-1, v-raf-1, c-Mos, and MEKK. MEKK shares homology with yeast kinases Ste11 and byr2. It appears that MEK is activated via 2 different pathways.⁽²⁾ MEK1 differs from MEK2 in the amino terminal region and between the conserved kinase subdomains 9 and 10.⁽³⁾ This antibody is specific for MEK1 and does not cross react with MEK2; it reacts with MEK1 protein from human, mouse, rat, and xenopus on immunoblots. MEK activity can be immunoprecipitated and assayed using inactive GST:ERK1 as a substrate.⁽⁴⁾

1. Crews, C.M., Alessandrini, A., and Erikson, R.L.; The Primary Structure of MEK, a Protein Kinase That Phosphorylates the ERK Gene Product, *Science* 258:478-480 (1992).
2. Crews, C.M. and Erikson, R.L.; Extracellular Signals and Reversible Protein Phosphorylation: What to Mek of It All, *Cell* 74:215-217 (1993).
3. Drott, B.K. et al; MEK2 is a kinase related to MEK1 and is differentially expressed in murine tissues (In Press).
4. Crews, C.M. and Erikson, R.L.; *Proc Natl Acad Sci* 89:8205-8208 (1992).

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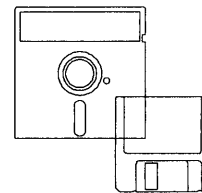
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American Association for Cancer Research

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World Health Organization
International Agency for Research on Cancer
Lyon, France

MOLECULAR BIOLOGIST

The Unit of Mechanisms of Carcinogenesis of the International Agency for Research on Cancer is conducting studies to elucidate the etiopathogenesis of human cancer through a multidisciplinary approach ranging from experimental studies to molecular epidemiology. The aim is to identify carcinogenic risk factors and to provide the scientific basis for the extrapolation of experimental data to humans.

A molecular biologist is required to participate in the conception, planning and conduct of projects on the role of activation and inactivation of oncogenes and tumour-suppressor genes and other genetic alterations in human cancers. He/she will interact with other experimental scientists and epidemiologists in and outside the International Agency for Research on Cancer in the implementation of molecular epidemiological studies. The incumbent is expected to supervise technical staff and visiting fellows, and to report findings at scientific meetings.

A postgraduate degree or equivalent at doctorate level in molecular biology and some years of experience in cancer research and collaborative studies are required.

The appointment will be initially for two years, the first being probationary, and can be extended further.

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Those interested should write, enclosing a curriculum vitae to:

Personnel Office
I.A.R.C
150, Cours Albert Thomas
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France
Fax No 72 73 85 75

Candidates will be contacted only if they are under serious consideration.

AMERICAN ASSOCIATION FOR CANCER RESEARCH

85th Annual Meeting

Karen S. H. Antman, Program Chairperson

Moscone Center, San Francisco, CA

April 10-13, 1994



Titles of Major Sessions

(Confirmed Chairpersons in Parentheses)

PLENARY SESSION

The Biological and Clinical Roles of Genetic Markers (Karen S. H. Antman)

SYMPOSIA

Genetic Basis for Tumor Cell Sensitivity to Radiation (John B. Little)

Recent Advances in Environmental Carcinogenesis (Kenneth Olden and Paul Kleihues)

Basic Science Approaches to Breast Cancer (Mina J. Bissell)

Programmed Cell Death (Stanley J. Korsmeyer)

Basic and Clinical Aspects of Prostate Cancer (Donald S. Coffey)

Tumor Suppressor Genes and Cell Cycle Control (Michael B. Kastan)

Retinoids and Cancer (Lorraine J. Gudas)

Solid Tumor Physiology and Therapeutic Approaches (Beverly A. Teicher)

Potential Applications of Advances in Cell and Molecular Biology to New Therapies for Lung Cancer (John D. Minna)

Hematological Malignancies: Biology and Therapy (Riccardo Dalla-Favera)

Hormonal Carcinogenesis: Epidemiological and Mechanistic Studies (Barbara S. Hulka and Joachim G. Liehr)

Cellular Signalling (Joseph Schlessinger)

Cell Adhesion in Invasion and Metastasis (David A. Cheresh)

New Approaches to Cancer Immunotherapy (Olivera J. Finn)

Genomic Imprinting and Its Role in Cancer (Andrew P. Feinberg)

AIDS-associated Malignancies (Alexandra M. Levine)

Topoisomerase I Inhibitors: Molecules to Medicine (Randall K. Johnson)

Integration of Cytokines and Radiation: Biological Basis and Preliminary Clinical Trials (Zvi Fuks)

Pharmacogenetics: Role of Drug Metabolism Polymorphisms in Cancer Chemotherapy (Frank J. Gonzalez)

Intermediate Endpoints in Cancer Prevention (Gary J. Kelloff)

Transcriptional Control of Cell Proliferation and Differentiation (Robert Eisenman)

Conducting Cancer Research Among Minority Populations in the United States (Jose Russo)

New Strategies for Immunological Intervention (Hans Schreiber and You Hui Zhang)

Mechanisms and Circumvention of Drug Resistance (Barton A. Kamen)

Nutrition and Cancer: Basic and Epidemiological Research (Walter C. Willett)

Novel Strategies in Chemical Prevention of Cancer (Paul Talalay)

MINORITY ISSUES SYMPOSIUM

Survival and Success in Cancer Research: Toward the Year 2000 (Sandra L. White)

WORKSHOPS

Confocal Microscopy and Quantitative Image Analysis (James P. Slattery)

Quantitative Genotyping and Phenotyping of Tumor Cells (Fredika M. Robertson and Joe W. Gray)

CONTROVERSIES

Bone Marrow Transplantation (Clara D. Bloomfield)

Is Multidrug Resistance an Important Factor in Therapeutic Outcome? (William T. Beck)

Dietary Fat and Cancer (Laurence N. Kolonel)

MEET-THE-EXPERT SUNRISE SESSIONS

To Be Announced

Further Information: AACR Office • Public Ledger Building • 620 Chestnut Street • Suite 816 • Philadelphia, PA 19106-3483
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*Next Annual Meeting: March 19-22, 1995,
Toronto, Ontario, Canada*

THE EIGHTH INTERNATIONAL CONFERENCE OF THE
INTERNATIONAL SOCIETY OF DIFFERENTIATION (ISD)

In conjunction with
the Fourth Hiroshima Cancer Seminar
*"Developmental Biology, Differentiation
and Cancer: Toward the 21st Century"*

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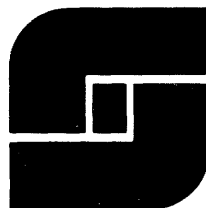
The Scientific Program will include the Jean Brachet Award Lecture, plenary lectures, symposia, oral presentations and poster presentations based on the following topics: growth factors, cancer genes and tumor suppressor genes, cell adhesion and cytoskeleton, myoD gene and homeobox gene in development, macrophage recognition, gene targeting strategy, genomic imprinting, apoptosis and stress factors, cell cycle control, neural development, hematopoiesis, mechanism of gene expression, transplacental carcinogenesis, morphogenesis and pattern formation, embryonic induction, cell lineages in early embryo, microenvironment on differentiation, invasion and metastasis, gene therapy, differentiation therapy of cancer, molecular aspects of transgenerational carcinogenesis.

Speakers include: SA Aaronson (USA), K Agata (JPN), T Akiyama (JPN), M Amano (JPN), M Asashima (JPN), D Baltimore (USA), M Blaese (USA), J Brocks (UK), MR Capecchi (USA), AS Deisseroth (USA), SW deLaat (ND), RM Evans (USA), IJ Fidler (USA), WW Franke (Ger), H Fujisawa (JPN), T Graf (Ger), P Gruss (Ger), CC Harris (USA), GH Heppner (USA), WK Hong (USA), HR Horvitz (USA), T Hunter (USA), H Ide (JPN), T Irimura (JPN), Y Ito (JPN), CB Kimmel (USA), T Kishimoto (JPN), Y Kitamura (JPN), ML Kripke (USA), T Kuroki (JPN), N Le Douarin (F), RG McKinnell (USA), T Muramatsu (JPN), S Nagata (JPN), E Nishida (JPN), T Nishimoto (JPN), P Nurse (UK), K Okada (JPN), I Pastan (USA), M Saito (JPN), Z Schwarz-Sommer (Ger), RE Scott (USA), EJ Stanbridge (USA), A Surani (UK), M Takeichi (JPN), D Tarin (UK), M Terada (JPN), S Tsukita (JPN), J Yoshida (JPN).

Deadline for early registration and submission of abstracts: April 30, 1994.

For additional information contact:

Secretariat for the Eighth International Conference of the International Society of Differentiation (ISD) c/o Conference and Event Department
Simul International, Inc., Kowa Bldg. No. 9, 1-8-10, Akasaka
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Japan



Cell Biologist

A qualified candidate will possess a Ph.D. in cell biology or microbiology, with experience using *in vitro* epithelial tumor systems and working knowledge of anticancer drug development. Superior verbal and written skills with demonstrated proposal quality are also required. Duties include project management, experimental design, and report/proposal preparation. The successful candidate will join a team of scientists engaged in experimental therapeutics research.

With a staff of over 630, Southern Research Institute is an independent research organization engaged in state-of-the-art, interdisciplinary studies. Research areas include cancer and viral disease cause and prevention, preclinical drug development and evaluation, environmental sciences, and aerospace materials research.

To apply, send c.v. to Human Resources, Dept. 667, Southern Research Institute, P.O. Box 55305, Birmingham, AL 35255-5305.

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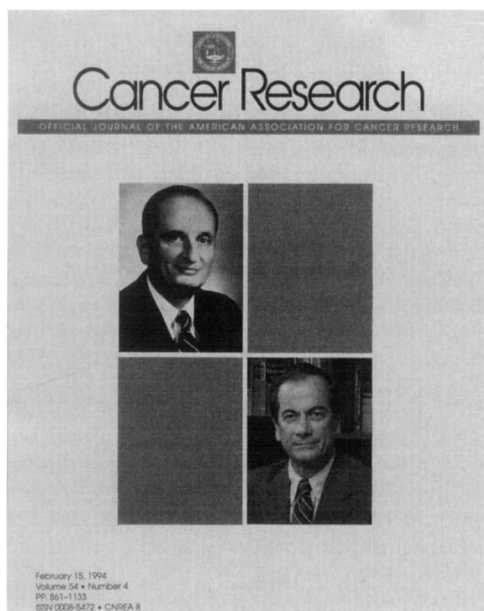
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A Public Service Announcement Courtesy of this Publication

COVER LEGEND



The Journal is pleased to recognize Drs. Denman Hammond and Judah Folkman, who received the 1993 Medal of Honor Awards from the American Cancer Society for their extraordinary contributions to cancer research.

Denman Hammond, M.D. (*lower right*), was chosen to receive the Medal of Honor for clinical research because of his many contributions to new treatments for the cancers of children and for his influence on the manner in which children with cancer are managed in many leading pediatric institutions. He became an investigator of the Children's Cancer Group (CCG) in 1957, was first elected Group Chairman in 1967, and served in that role for 25 years. The CCG conducted a succession of clinical trials of new antileukemia therapies during the decade from 1956 to 1966. As chemotherapy began to be used in clinical trials for children with solid tumors, Dr. Hammond foresaw that it would require a multidisciplinary approach. He persuaded leaders in pediatric surgery, pediatric radiation oncology, and pediatric pathology to participate in the CCG and to develop a team approach to diagnosis, staging, and treatment. Under his leadership, the CCG was transformed from a leukemia chemotherapy clinical trials group into a multidisciplinary, multimodality cooperative group of 112 institutions that studied all aspects of childhood cancers. A multidisciplinary team became a requirement for institutional membership in the CCG. This accelerated the adoption of team care of the child with cancer in leading institutions throughout the country. It has become the only acceptable mode for the treatment of children with cancer in many parts of the world. Dr. Hammond also promoted laboratory research on the biology of the cancers of children, both to discover their biologic abnormalities and also to permit sophisticated laboratory-clinical correlations for improved diagnosis, prognosis, and treatment.

Denman Hammond was born in Atlanta, GA in 1923, graduated from the University of North Carolina, Chapel Hill in 1944 and received the M.D. from the University of Penn-

sylvania in 1948. He had postgraduate training at the Pennsylvania Hospital and the Children's Hospital of Philadelphia and was a research fellow at the University of California at San Francisco, where he remained on the faculty and developed the Division of Pediatric Hematology and Oncology. In 1957, he was appointed to the University of Southern California in Los Angeles as Assistant Professor of Pediatrics and rose to full Professor in 1965. During the 1960s, he developed the Division of Hematology-Oncology at the Children's Hospital Los Angeles into one of the nation's leading cancer programs.

Dr. Hammond was the Founding Director of the USC Comprehensive Cancer Center and the developer of the USC-Kenneth Norris, Jr., Cancer Hospital and Research Institute. Beginning in 1971, he was responsible for the creation of the scientific programs of the USC Cancer Center, the development of its staff, and the design, funding, and construction of a cancer research laboratory building and the Cancer Hospital and Research Institute. As Associate Dean of the School of Medicine, in 1983 Dr. Hammond led a committee that developed a proposal to build USC University Hospital and found ways to make the project feasible. The USC Board of Trustees agreed to undertake the project. Subsequently, as Associate Vice President for Health Affairs, he was responsible for coordinating the involvement of many members of the faculty in developing the room-by-room plans and equipment for the \$150 million USC University Hospital, which opened in 1991. Dr. Hammond has been active for many years in the American Cancer Society as a member of its National Board. He has received numerous awards and has published an impressive list of articles, books, and book chapters. He received an ACS Research Scholar award in 1964 and the Distinguished Career Award of the American Society of Pediatric Hematology/Oncology in 1992.

Judah Folkman (*upper left*) received the Medal of Honor for contributions in basic research. He has been a pioneer in the clarification of our understanding of the role of angiogenesis in tumor growth and metastasis. His work has revolutionized this major and promising field of cancer research, now being pursued worldwide, and has led to the first clinical efforts exploring anti-angiogenic therapy for cancer treatment. His laboratory reported the first angiogenic molecule and the first angiogenesis inhibitor. He predicted the existence of natural angiogenesis inhibitors and discovered several families of angiostatic substances.

Dr. Folkman was featured *in extenso* in the cover legend of the June 15, 1992 issue of *Cancer Research* as the winner of the Wolf Award and the 3M Life Sciences Award from the Federation of American Societies for Experimental Biology (FASEB) for a distinguished career. He is now Andrus Professor of Pediatric Surgery at Harvard Medical School and Children's Hospital, and has been honored widely throughout the world for his extraordinary accomplishments in angiogenesis research, which is now opening new fields of human cancer management. Reviews of his work are in *Cancer Medicine*, pp. 153-170, 1993; and in the *American J. Pathol.*, 143(2): 401-409, 1993.

We are indebted to Sharon B. Murphy and to the American Cancer Society for information and photographs.

Sidney Weinhouse



AMERICAN ASSOCIATION FOR CANCER RESEARCH

GUIDELINES FOR APPLICATION FOR ACTIVE AND CORRESPONDING MEMBERSHIP

BENEFITS OF MEMBERSHIP

The American Association for Cancer Research (AACR), a scientific society 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 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. subscriptions to all of the Association's high-quality journals, *Cancer Research*, *Cell Growth & Differentiation*, and *Cancer Epidemiology, Biomarkers & Prevention*, at reduced member rates;
2. the privilege of sponsoring a paper for presentation at the AACR annual meeting;
3. an advance copy of the scientific Program and the *Proceedings of the American Association for Cancer Research* for each annual meeting;
4. reduced registration rates at all scientific meetings;
5. priority notification of events in the AACR's outstanding series of special conferences on timely subjects in the field;
6. the receipt of AACR newsletters, meeting announcements, and an up-to-date membership directory;
7. reduced rates for the AACR Employment Register; and
8. the professional benefits of AACR's public education activities.

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 is working in a research area not directly related to cancer but has conducted research of merit in a related area of biomedical science, he or she may also qualify for membership.

Corresponding membership is open to persons who are not residents of the Americas. The qualifications for corresponding membership are the same as those for active membership. Visiting scientists from outside the Americas who intend to return to their countries of origin 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 at a later date upon leaving the Americas. Graduate and medical students, postdoctoral fellows, and physicians in training who do not yet meet the above qualifications should apply for associate membership.

PROCEDURES FOR APPLICATION

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

Receipt of Application in AACR Office

January 1
May 1
September 1

Notification of Candidate

March
July
November

A complete application consists of the following material:

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

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
620 Chestnut Street
Suite 816
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, a major portion of which is designated for subscriptions to AACR publications. In 1994 dues for active members are \$150, \$95 of which is designated for journal subscriptions. Newly elected members of the AACR who have already purchased subscriptions to *Cancer Research*, *Cell Growth & Differentiation*, or *Cancer Epidemiology, Biomarkers & Prevention* at the higher, nonmember rate will receive reimbursement of the unused portion of those subscriptions once their first year's membership dues are paid in full.

Corresponding members are required to pay dues (\$65 in 1994) and may, if they wish, subscribe to *Cancer Research*, *Cell Growth & Differentiation*, or *Cancer Epidemiology, Biomarkers & Prevention* at reduced member rates.

Applicants elected in March will be responsible for payment of that year's dues; applicants elected in July and November will pay dues for the following year. Applicants elected in March and July will be eligible to sponsor an abstract for the next annual meeting. Every effort will be made to afford the same opportunity to applicants elected in November.

Margaret Foti
Executive Director

AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC.

Public Ledger Building · 620 Chestnut St. · Suite 816 · Philadelphia, PA 19106-3483



APPLICATION FOR ACTIVE OR CORRESPONDING MEMBERSHIP

NAME OF CANDIDATE: _____ DATE OF BIRTH: _____
LAST FIRST M.I.

PRESENT POSITION/TITLE: _____

INSTITUTIONAL AFFILIATION: _____

INSTITUTIONAL ADDRESS: _____

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

TELEPHONE NUMBER: _____ FAX NUMBER: _____

E-MAIL NUMBER (CARRIER): _____

PRIMARY FIELD OF RESEARCH (Please check only one):

<input type="checkbox"/> Biochemistry and Biophysics	<input type="checkbox"/> Biostatistics	<input type="checkbox"/> Carcinogenesis
<input type="checkbox"/> Cellular Biology and Genetics	<input type="checkbox"/> Clinical Investigations	<input type="checkbox"/> Endocrinology
<input type="checkbox"/> Epidemiology	<input type="checkbox"/> Immunology	<input type="checkbox"/> Molecular Biology and Genetics
<input type="checkbox"/> Preclinical Pharmacology and Experimental Therapeutics	<input type="checkbox"/> Virology	<input type="checkbox"/> Other: _____ (Please specify)

ACADEMIC DEGREES (Including where and when granted)

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

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

CANDIDATE
NOMINATED BY*: _____
(Please print)

CANDIDATE
SECONDED BY*: _____
(Please print)

CANDIDATE IS APPLYING FOR (Check one): ☐ ACTIVE ☐ CORRESPONDING MEMBERSHIP

STATEMENT OF SUPPORT (in place of letters of recommendation)

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

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

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

Does the candidate's research adhere to accepted ethical standards? ☐ Yes ☐ No

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

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

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

Does the candidate's research adhere to accepted ethical standards? ☐ Yes ☐ No

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

Signature of nominator* _____ Date _____

Signature of seconder* _____ Date _____

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

*Both nominator and seconder must be active, corresponding, emeritus, or honorary members of the AACR.

(This form may be reproduced.)



AMERICAN ASSOCIATION FOR CANCER RESEARCH

GUIDELINES FOR APPLICATION FOR ASSOCIATE MEMBERSHIP

QUALIFICATIONS FOR MEMBERSHIP

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

BENEFITS OF MEMBERSHIP

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

1. the privilege of sponsoring a paper for presentation at the AACR annual meeting provided that (a) the associate member is the presenter of the paper and (b) an active, corresponding, emeritus, or honorary member in good standing of the AACR also signs the abstract of the paper in support of the work (In this instance, the member who cosigns the abstract does not lose his or her own sponsorship privilege.);
2. an advance copy of the scientific Program and (if one has been purchased by the associate member) the *Proceedings of the American Association for Cancer Research* which contains abstracts of all papers being presented at each annual meeting;
3. the privilege of registering for the annual meeting at the low student rate (This rate is otherwise available only to predoctoral students.);
4. preferred access to the AACR Employment Register;
5. optional subscriptions to the Association's high-quality journals *Cancer Research*, *Cell Growth & Differentiation*, 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 \$30 for associate members residing in the Americas and \$40 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 \$30 or \$40 dues payment to:

American Association for Cancer Research
Public Ledger Building
620 Chestnut Street
Suite 816
Philadelphia, PA 19106-3483
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RESPONSIBILITIES OF MEMBERSHIP

Associate members must pay annual dues in an amount to be determined by the AACR Board of Directors. Dues for 1993 and 1994 have been set at \$30 per year for residents of the Americas and \$40 for residents of other countries. If an application is submitted by August 31, the accompanying dues payment will be credited to the current year. Candidates submitting applications between September 1 and December 31 may indicate whether they wish their dues payments credited to the current or forthcoming year. Candidates should be aware, however, that associate members may sponsor an abstract for the annual meeting only if their dues for the current year are paid. For example, an associate member submitting an abstract in October 1993 for the forthcoming annual meeting must have paid dues for 1993. Any newly elected associate members of the AACR who have already purchased subscriptions to *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 1993 may retain associate membership until December 31, 1997. The Board of Directors may terminate the membership of an associate member whose dues are in arrears for two years.

Margaret Foti
Executive Director

AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC.

Public Ledger Building · 620 Chestnut St. · Suite 816 · Philadelphia, PA 19106-3483



APPLICATION FOR ASSOCIATE MEMBERSHIP

NAME OF CANDIDATE: _____ DATE OF BIRTH: _____
LAST FIRST M.I.

INSTITUTIONAL AFFILIATION: _____

INSTITUTIONAL ADDRESS: _____

(City) (State/Province) (Country) (Postal Code)
TELEPHONE NUMBER: _____ FAX NUMBER: _____

PRESENT ACADEMIC STATUS/TITLE (Please check only one): E-MAIL NUMBER (CARRIER): _____

____ 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 ____ Virology ____ Other: _____
Experimental Therapeutics (Please specify)

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

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

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

CANDIDATE NOMINATED BY: _____
(Please type or print name of AACR active member in good standing.)

SIGNATURES

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

Signature of Candidate: _____ Date: _____

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

Signature of Nominator*: _____ Date: _____

Submit three copies of this form. At least one copy must contain the original signatures of the candidate and the nominator. Enclose a check in U.S. funds, made payable to AACR, Inc., and drawn on a U.S. bank for one year's dues. Dues are currently \$30 for associate members residing in the Americas and \$40 for residents of other countries.

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

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

(NOTE: If dues are applied to the forthcoming year, membership will take effect on January 1, but the candidate will not be eligible to sponsor an abstract for presentation at the annual meeting in May of that year.) See Guidelines for Application on the reverse side of this form for further instructions.

*Nominator must be active, corresponding, emeritus, or honorary member of the AACR.

(This form may be reproduced.)

AMERICAN ASSOCIATION FOR CANCER RESEARCH
85th ANNUAL MEETING

April 10-13, 1994
Moscone Center
San Francisco, CA

ADVANCE REGISTRATION FORM

(Please print)

NAME: _____
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Institution

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☐ 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):

- ☐ ¹Biochemistry and Biophysics ☐ ²Carcinogenesis ☐ ³Cellular Biology & Genetics ☐ ⁴Clinical Investigations
☐ ⁵Endocrinology ☐ ⁶Epidemiology ☐ ⁷Experimental Therapeutics ☐ ⁸Immunology ☐ ⁹Molecular Biology & Genetics
☐ ¹⁰Prevention ☐ ¹¹Radiobiology/Radiation Oncology ☐ ¹²Virology ☐ ¹³Other (please specify): _____

ARE YOU THE PRESENTER OF AN ABSTRACT SUBMITTED FOR THE 1994 AACR MEETING? ☐ Yes ☐ No

ON WHICH DAYS WILL YOU ATTEND THE 1994 AACR ANNUAL MEETING?

- ☐ Sunday, April 10 ☐ Monday, April 11 ☐ Tuesday, April 12 ☐ Wednesday, April 13

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. Honorary and emeritus members may register gratis.

FEES	On or Before Feb. 18	After Feb. 18	METHOD OF PAYMENT
<input type="checkbox"/> Active/Corresponding Member Rate	\$ 95	\$125	<input type="checkbox"/> Check payable to AACR, Inc. in U.S. currency, drawn on a U.S. bank
<input type="checkbox"/> Honorary/Emeritus Member Rate	\$ 0	\$ 0	
<input type="checkbox"/> Nonmember Rate (includes a copy of AACR <i>Proceedings</i>)	\$210	\$245	_____ Person/Institution Issuing Check Check No.
<input type="checkbox"/> Associate Member/Student Rate* (does not include a copy of AACR <i>Proceedings</i>)	\$ 50	\$ 60	<input type="checkbox"/> MasterCard <input type="checkbox"/> VISA <input type="checkbox"/> American Express <input type="checkbox"/> Eurocard
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THE DEADLINE FOR REDUCED REGISTRATION FEES IS FEBRUARY 18, 1994. Registration by mail will be accepted until March 11. Registration will also be available at the Moscone Center from April 9-13.

*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** unless they are Associate Members of the AACR. An application for Associate Membership may accompany this form, but these should be submitted well before the February 18 deadline, as review of the Associate Membership application may delay registration.

+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 \$35 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.

Mail all advance registration forms with applicable fees to Annual Meeting Registration, American Association for Cancer Research, Inc., Public Ledger Building, 620 Chestnut Street, Suite 816, Philadelphia, PA 19106-3483. FAX: 215-440-9313. Badges and receipts will be sent to you in March. AACR members in good standing will receive copies of the Program and *Proceedings* prior to the meeting. Nonmember and student registrants who meet the February 18 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.

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Refunds on registration fees will be granted on written request received in the AACR Office by April 4, 1994. 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 \$25 will be deducted from all refunds to cover administrative costs.

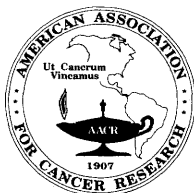
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WordPerfect 4.2, 5.0, 5.1 (for the IBM)	Microsoft Word Macintosh
WordPerfect (for the Mac)	(Versions 1–4) 400/800K
Wordstar (for the IBM)	Wang OIS (WPS)

Also acceptable:

Apple II DOS 3.3	Display Write 4
Apple with Appleworks Software	IBM Displaywriter Word Processor 6580
Apple III Plus DOS 3.3	Lanier Business One Step
Apple Macintosh 400K Disc/ MacWrite 2.2 (text)	Lanier No Problem
Apple Macintosh Plus 800K Disc/ MacWrite 4.5 (text)	Lanier Super No Problem
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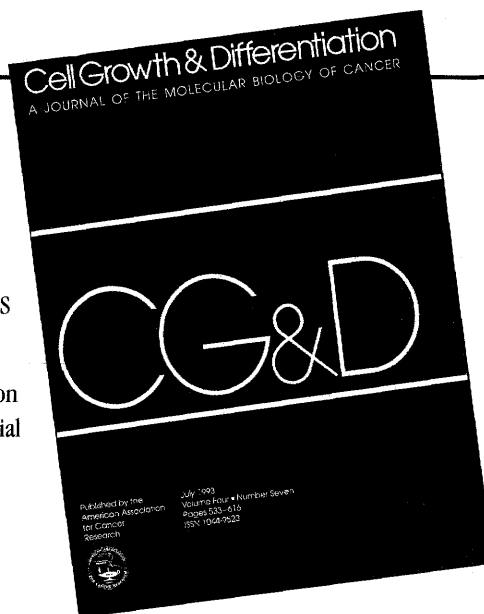
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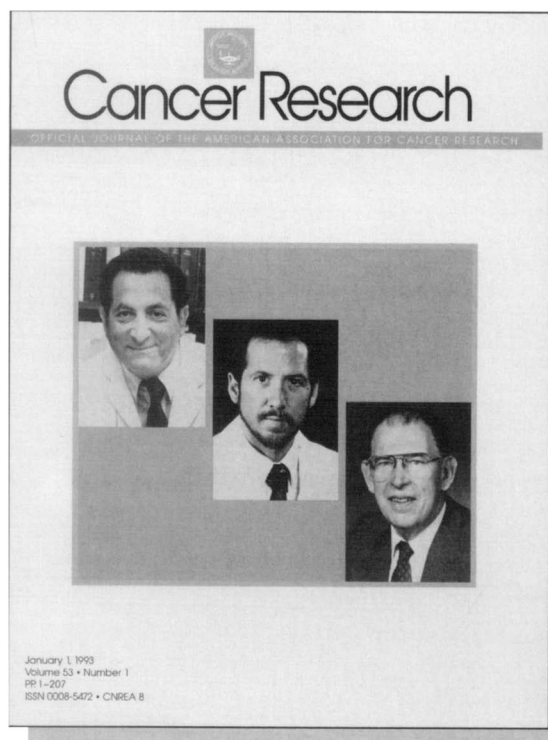


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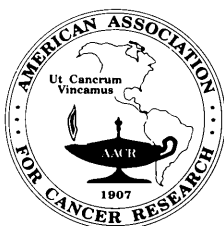
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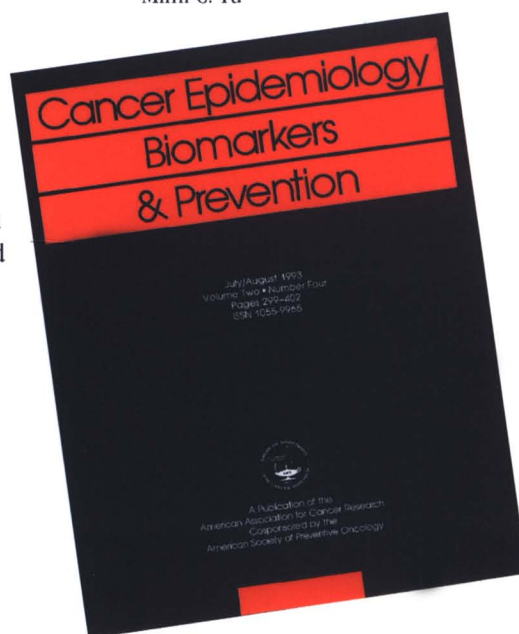
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