AUTHOR INDEX

August 1, 1993

Albin, N., 3541
Alfieri, A., 3518
Andersson, B. S., 3603
Aoki, D., 3643
Asano, Y., 3638
Austin, C. A., 3591
Bailey, D., 3574
Barrett, J. C., 3475
Berman, M., 3603
Betpelheim, P., 3638
Bolton, M. G., 3499
Bourguignat, A., 3536
Bowman, E. D., 3486
Brach, M. A., 3638
Buchanan, J., 3574
Bulbul, M., 3574
Bunch, R. T., 3547
Butler, R. N., 3455
Cantoreggi, S., 3505
Carcelain, G., 3569
Cardona, H., 3536
Chabot, G. G., 3541
Colofoire, R., 3518
Cork, A., 3603
deConinck, E. C., 3472
de Rijk, D., 3611
Devitt, M. L., 3518
de Vos, S., 3638
Dietrich, D. R., 3505
Doan, V. T., 3486
Dobrovic, A., 3455
Dutcher, J. P., 3509
Elmore, E., 3475
Ewing, C. M., 3585
Farmer, B., 3455
Faure, F., 3569
Ferradini, L., 3569
Fisher, L. M., 3591
Fornari, F. A., 3547
Frixen, U. H., 3618
Fujiki, H., 3642
Furukawa, H., 3632
Gallie, B. L., 3574
Gehring, U., 3513
Gerretsen, M., 3524
Gewirtz, D. A., 3547
Goldenberg, G. J., 3530
Goss, P. E., 3574
Gouyette, A., 3541
Grandis, J. R., 3579
Greenall, M., 3597
Groopman, J. D., 3499
Gruss, H-J., 3638
Guillaudeux, J., 3536
Gusella, J. F., 3465
Hardingham, J. E., 3455
Harrington, A. M., 3486
Harris, A. L., 3597
Herendo, T., 3569
Herrmann, F., 3638
Hirano, H., 3643
Hogg, D., 3574
Holder, J. W., 3475
Horak, E., 3597
Imaoka, S., 3632
Irimura, T., 3632
Isaacs, W. B., 3585
Ishikawa, O., 3632
Iwanaga, T., 3632
Jacobson, L. P., 3499
Jewett, M., 3574
Kabuto, T., 3632
Kameyama, M., 3632
Kantarjian, H., 3603
Kawakami, H., 3643
Kelloff, G., 3493
Kemperman, H., 3611
Kensler, T. W., 3499
Kleinman, H. K., 3459
Kohli, V., 3603
Komori, A., 3462
Kotasek, D., 3455
Koutcher, J. A., 3518
Kurzrock, R., 3603
Labrecque, S., 3468
Leek, R., 3597
LeJeune, S., 3597
Leielve, E., 3536
Liebes, L., 3509
Lokiec, F., 3536
Louis, D. N., 3465
Lucas, C., 3536
Ludwig, W-D., 3638
Lutz, W. K., 3505
Mackensenn, A., 3569
Malik, D., 3574
Martin, D. S., 3518
Massaad, L., 3541
Mathieu, M-C., 3541
Matlashewski, G., 3468
Matsushita, Y., 3632
Maxuitenko, Y. Y., 3499
Meijer, C. J. L. M., 3524
Mi, J-X., 3455
Morizet, J., 3541
Morton, R. A., 3585
Muñoz, A., 3499
Nagafuchi, A., 3585
Nagamine, Y., 3618
Nakamori, S., 3632
Naor, N., 3468
Nomizu, M., 3549
Nord, L. D., 3518
Nozawa, S., 3643
O'Brien, S., 3603
Ogasawara, M., 3661
Ogabio, S., 3462
Orr, M. S., 3547
Parise, O., 3541
Peng, H-Q., 3574
Pisa, P., 3603
Plowman, G., 3597
Povirk, L. F., 3547
Randolph, J. K., 3547
Rao, C. V., 3493
Rao, V. N., 3449
Reddy, B. S., 3493
Reddy, S. P., 3449
Reiter, Z., 3555
Ritke, M. K., 3547
Rivenson, A., 3493
Robert, N. J., 3509
Roebuck, B. D., 3499
Roos, E., 3611
Rosenberg, S. A., 3561
Rubio, M-P., 3465
Rutka, J. T., 3624
Sage, R. E., 3455
Sasaki, Y., 3632
Sauveur, C., 3536
Schwartz, E. L., 3509
Shields, P. G., 3486
Siciliano, M., 3603
Smith, S. L., 3624
Snow, G. B., 3524
Solere, P., 3536
Sparano, J. A., 3509
Stelmark, G. L., 3530
Stolfi, R. L., 3518
Suganuma, M., 3462
Sausuma, N., 3643
Taylor, M. W., 3555
Thomson, D., 3468
Tius, M. A., 3462
Toussaint, C., 3451
Triebel, F., 3569
Tsuksita, S., 3585
Twardy, D. J., 3579
van Dongen, G. A. M. S., 3524
van Walsum, M., 3524
Viel, S., 3569
Visser, G. W. M., 3524
von Deimling, A., 3465
Wadler, S., 3509
Wang, J. C., 3591
Wasserman, R. A., 3591
Weigel, R. J., 3472
Weston, A., 3486
Wiestler, O. D., 3465
Wijnands, Y., 3611
Yalowich, J. C., 3547
Yamada, Y., 3459
Yamamura, K., 3459
Yandell, D. W., 3465
Zeiner, M., 3513
Zou, X, 3462
AMERICAN ASSOCIATION FOR CANCER RESEARCH

GUIDELINES FOR APPLICATION FOR ACTIVE AND CORRESPONDING MEMBERSHIP

BENEFITS OF MEMBERSHIP

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

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

QUALIFICATIONS FOR MEMBERSHIP

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

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

PROCEDURES FOR APPLICATION

There are three deadlines for receipt of a membership application: 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 in AACR Office</th>
<th>Notification of Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 1</td>
<td>March</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, emeritus, or honorary member of the AACR (at least one copy must be a signed, original letter). This letter should describe the candidate’s achievements in laboratory research, clinical investigations, or epidemiological research, and it should affirm that this research adheres to accepted ethical standards.—OR—The nominator may supply the responses requested at the bottom of the application form in the section entitled “STATEMENT OF SUPPORT” (at least one copy of the form must be the signed original).

4. 5 copies of a letter of recommendation as described in Item 3 above from a seconder who is an active, emeritus, or honorary member of the AACR (at least one copy must be a signed, original letter).—OR—The seconder may supply the responses requested at the bottom of the application form in the section entitled “STATEMENT OF SUPPORT” (at least one copy of the form must be the signed original).

5. 5 reprints of each of two publications on which the candidate appears as author.

All material should be collated into five complete sets with the original application form as a covering document and sent to the address given below. Questions regarding procedures for membership application may also be directed to the following address:

American Association for Cancer Research
Public Ledger Building
620 Chestnut St.
Suite 816
Philadelphia, PA 19106-3483
215/440-9300

RESPONSIBILITIES OF MEMBERSHIP

Candidates should be aware of the following responsibilities of membership in the AACR. Active members must pay annual dues, a major portion of which is designated for a subscription to at least one of the AACR’s publications. Newly elected members of the AACR who have already purchased subscriptions to Cancer Research, 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.

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

Applicants elected in March will be responsible for payment of that year’s dues; applicants elected in July and November will pay dues in 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
### APPLICATION FOR MEMBERSHIP

**CATEGORY OF MEMBERSHIP:** □ Active □ Corresponding

**NAME OF CANDIDATE:** ___________________________ **DATE OF BIRTH:** ___________________________

**PRESENT POSITION/TITLE:** ___________________________

**INSTITUTIONAL AFFILIATION:** ___________________________

**INSTITUTIONAL ADDRESS:**

<table>
<thead>
<tr>
<th>(City)</th>
<th>(State/Province)</th>
<th>(Country)</th>
<th>(Postal Code)</th>
</tr>
</thead>
</table>

**TELEPHONE NUMBER:** ___________________________

**FAX NUMBER:** ___________________________

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

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

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

_________________________ ___________________________

_________________________ ___________________________

_________________________ ___________________________

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

_________________________ ___________________________

_________________________ ___________________________

_________________________ ___________________________

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

_________________________ ___________________________

_________________________ ___________________________

_________________________ ___________________________

_________________________ ___________________________

**CANDIDATE NOMINATED BY:** ___________________________ **CANDIDATE SECONDED BY:** ___________________________

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

**STATEMENT OF SUPPORT** (in place of letters of recommendation)

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

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

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

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

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

_________________________ ___________________________

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, emeritus, or honorary members of the AACR.

(This form may be reproduced.)
QUALIFICATIONS FOR MEMBERSHIP

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

BENEFITS OF MEMBERSHIP

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

1. the privilege of sponsoring an abstract for presentation at the AACR annual meeting provided that (a) the associate member is the presenter of the abstract and (b) an active member in good standing of the AACR also signs the abstract in support of the work (In this instance, the active member who coauthors the abstract does not lose his or her own sponsorship privilege.);
2. an advance copy of the Program and (if one has been purchased by the associate member) the Proceedings of the American Association for Cancer Research which contains abstracts of all papers being presented at each annual meeting;
3. the privilege of registering for the annual meeting at the low student rate (This rate is otherwise available only to predoctoral students.);
4. preferred access to the AACR Employment Register;
5. optional subscriptions to the journals Cancer Research, Cell Growth & Differentiation, and Cancer Epidemiology, Biomarkers & Prevention at the reduced member rate;
6. subscriptions to any future AACR journals at reduced member rates;
7. early notification of events in the AACR's new series of small scientific meetings on timely scientific topics;
8. the receipt of AACR newsletters, meeting announcements, and an up-to-date membership directory; and
9. the facilitation of informal scientific exchange with leading researchers in the cancer field.

PROCEDURES FOR APPLICATION

Persons wishing to apply for associate membership must use the official application form on the reverse side of these instructions. Each candidate for associate membership must be nominated by an active member in good standing of the AACR. Three completed copies of the form should be submitted; at least one of these copies must carry the original signatures of both the candidate and the active member nominator. The application form may be submitted to the Association Office at any time.

After review of applications for associate membership, the Executive Director will notify candidates of their election or deferral within one month of the receipt of the application form. A check in the amount of $30, which represents one year's dues payment, must accompany the application. This fee will be refunded to any candidate deemed to be ineligible for associate membership. Checks should be in U.S. currency, made payable to AACR, Inc., and drawn on a U.S. bank. Send the three copies of the application form and the $30 dues payment to:

American Association for Cancer Research
Public Ledger Building
620 Chestnut St.
Suite 816
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 1993 have been set at $30 per year. If an application is submitted by August 31, the accompanying dues payment will be credited to the current year. Candidates submitting applications between September 1 and December 31 may indicate whether they wish their dues payments credited to the current or forthcoming year. Candidates should be aware, however, that associate members may sponsor an abstract for the annual meeting only if their dues for the current year are paid. For example, an associate member submitting an abstract in December 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, or Cancer Epidemiology, Biomarkers & Prevention at the higher, nonmember rate will receive a refund for the unused portion of that subscription upon receipt of their payment for a member's subscription.

Each Fall the AACR will send to current associate members an invoice for dues for the forthcoming year. Payment of this invoice must be accompanied by a statement signed by the associate member's current registrar, dean, or department head, verifying the member's current academic status. The Association's By-Laws state that dues are payable for each year in advance on or before January 1 of 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
APPLICATION FOR ASSOCIATE MEMBERSHIP

NAME OF CANDIDATE: ___________________________ DATE OF BIRTH: ____________

INSTITUTIONAL AFFILIATION: ______________________________

INSTITUTIONAL ADDRESS: ________________________________

<table>
<thead>
<tr>
<th>(City)</th>
<th>(State/Province)</th>
<th>(Postal Code)</th>
<th>(Country)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TELEPHONE NUMBER: ____________________________</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAX NUMBER: ________________________________</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- Graduate Student
- Medical Student
- Physician in Training
- Postdoctoral Fellow

PRIMARY FIELD OF RESEARCH (Please check only one):

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

(Please specify)

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

_________________________ ____________________________

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

_________________________ ____________________________

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

_________________________ ____________________________

_________________________ ____________________________

CANDIDATE NOMINATED BY: ____________________________

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

SIGNATURES

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

Signature of Candidate: ____________________________ Date: ____________

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

Signature of Nominator*: ____________________________ Date: ____________

Submit three copies of this form. At least one copy must contain the original signatures of the candidate and the nominator. Enclose a check for $30 in U.S. funds made payable to AACR, Inc. and drawn on a U.S. bank. Check one of the following boxes only if this form is being submitted between September 1 and December 31:

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, emeritus, or honorary member of the AACR.

(This form may be reproduced.)
Guidelines for Submitting Disks
to
American Association for Cancer Research Publications

The word processing packages that we prefer are as follows:

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

Also acceptable:

- Apple II DOS 3.3
- Apple with Appleworks Software
- Apple III Plus DOS 3.3
- Apple Macintosh 400K Disc/
  MacWrite 2.2 (text)
- Apple Macintosh Plus 800K Disc/
  MacWrite 4.5 (text)
- CPT 8000
- DEC WPS-8
- DEC Decmate II
- DEC Decmate III
- Display Write 3

- IBM Displaywriter Word Processor 6580
- Lanier Business One Step
- Lanier No Problem
- Lanier Super No Problem
- MASS-11 PC
- Multimate
- PC Write
- PFS Professional Write
- Volkswriter 4.0

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

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

PLEASE FILL OUT ALL INFORMATION ON REVERSE SIDE AND SUBMIT THIS FORM WITH YOUR DISK. DISKS WILL NOT BE PROCESSED WITHOUT THIS INFORMATION.
DISK SUBMISSION FORM

AACR journals are now using personal computers to copyedit manuscripts accepted for publication. When submitting a revised manuscript, authors are encouraged to submit an electronic disk of the paper along with the required four hard copy printouts. Disks will ultimately be returned to the authors.

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

File preparation

Please be sure that the file you send is the most recent version of the manuscript and that it matches the most recently submitted printed copy. The file should contain all the parts of the manuscript in one file. Mathematical and tabular material, however, will be processed in the traditional manner and may be excluded from the disk file.

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

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

Name used to access paper on disk: _______________________________

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

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

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

[See reverse for acceptable programs.]

Manuscript number: _____________________________________________

First author: ____________________________________________________

Corresponding author (if different from first author): __________________

Telephone/FAX numbers: _________________________________________

This form (both sides) may be reproduced.