

# EMPLOYMENT REGISTER

## OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH

The advertisements below were submitted by prospective candidates and employers in the AACR Employment Register by February 1, 1989, and were updated as of July 10, 1989. Employers participating in the Employment Register may obtain information on the candidates in these advertisements and participating candidates may obtain information on positions in these advertisements by submitting written requests to the AACR Employment Register, 330 Market Street, 2nd Floor, Philadelphia, PA 19106. The request should give the three-digit identification number(s) appearing in the upper left-hand corner of the desired advertisement(s) and should include the registrant's own three-digit identification number or a completed employment register form with the appropriate fee attached. Forms were sent to all members of the AACR in January 1989. They were also printed in the First Announcement of the Annual Meeting and in the December 1 (1988), December 15 (1988), and January 1 (1989) issues of *Cancer Research*.

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### POSITION LISTINGS

**300P** Staff Fellow/Senior SF: New project on respirat. epithelia: culture, transform., effects of cell mediators of inflamm., oncogenes, growth factors; related to lung carcinogenesis by silica, particulates, other factors. Experience in cell molec. biol. Start \$24,000–30,000. U.S. citiz. or perm. resid. Dr. U. Saffiotti, Lab. of Experimental Pathology, NCI/NIH, Bldg. 41/C105, Bethesda, MD 20892 (301)496-2818.

**301P** Postdoc. fellowship in exper. pathology, carcinogenesis of respiratory tract epithelia in vivo and in cell culture. Lung cancer mechanisms by crystall. silica, other factors. Role of cell mediators of inflamm. on epithel. prolifer., transformation. Avail. now, \$21,000–26,000. U.S. citizen or perm. resid. Dr. U. Saffiotti, Lab. Exper. Pathology, NCI/NIH, Bldg. 41/C-105, Bethesda, MD 20892 (301)496-2818.

**303P** Five postdoctoral training positions in Immunology. Avail. Aug. 1989. Res. programs include mol. imm. of cytotoxicity, immunoglobulin genes, tolerance, tumor immunol., virol., microb. genet. and cellular imm. Limited to U.S. Citizens or permanent residents. Salary based on NIH recomm. levels. Contact Dr. E.R. Podack, Dept. of Micro. & Immunol., Univ. of Miami, P. O. Box 016960 (R-138), Miami, FL 33101.

**304P** Post-doc Fellow, Lab of Pharmacology, UCSD Cancer Center. Conduct research on molecular and biochemical pharm. of cancer drugs and mechanisms of resistance. Ph.D. or equiv. required. Avail. July 1989 for 2–3 years. \$23,000. Contact Dr. Stephen B. Howell or Dr. Paul A. Andrews, UCSD Cancer Center, T-012, San Diego, CA 92093. (619) 543-5530.

**305P** Postdoctoral Fellowships in Molecular Carcinogenesis. Two positions are available to study the regulation of cellular immortalization in normal human fibroblasts and mammary epithelial cells. The ideal candidate will have expertise in both mammalian cell culture and molecular biology. Available after June 1989. Salary negotiable. Contact Dr. Jerry W. Shay, The University of Texas Southwestern Medical Center at Dallas, Department of Cell Biology, 5323 Harry Hines Boulevard, Dallas, Texas 75235. Tel: (214) 688-3282. EO/AA.

**307P** Postdoctoral Fellow in Mol. Carcinogenesis to study role of oncogene activation in organ-specific tumor induction by chemicals. Avail. April 1989. Salary appr. 30,000 US\$ per year. Contact Dr. P. Kleihues, Institute of Pathology, Univ. of Zürich, CH-8091 Zürich, Switzerland.

**308P** Research position in the area of metal carcinogenesis. Specific topics include molecular analysis of metal-induced mutations and characterization of metal-induced DNA:protein interactions. Starting salary dependent on experience. Education/Experience: Ph.D. required with training in Biochemistry. Please contact Dr. Nelwyn T. Christie, New York Univ. Med. Ctr., Dept. Env. Med., 550 First Ave, NY, NY 10016.

**309P** Res. Assoc. (Inst/Asst. Prof) in pharmacol., med. chem., or related area. Post doc. in drug metabolism or biochem. pharm. Conduct independent res. on drug metabolism, drug interactions or pharmacodynamics. Supervise analytical facility. No teaching. Avail. now. \$30,000–40,000. Contact R. Schitsky or M. Ratain, Div. Hem.-Onc., Michael Reese Hosp., Chicago, IL 60616.

**310P** Postdoc./Res. Assoc. to study DNA modification and repair. Oriented towards cancer chemotherapy and/or environmental toxicology. Experience in protein biochemistry or nucleoside chemistry helpful.

Avail Dec 1988. \$17,000–\$26,250. Contact Dr. D. B. Ludlum, Dept of Pharmacology, UMass Medical School, Worcester, MA 01655.

**311P** Postdoctoral position in tumor cell biology available for 3 years to study mechanisms involved in regression of primary human tumors and spontaneous metastasis in animal models achieved with chemo- and radio-immunoconjugates. Ongoing studies include investigations on pharmacokinetics, biodistribution and effector mechanisms.

**312P** Postdoctoral position available in tumor cell biology for 3 years to develop and evaluate the efficacy of novel radioimmunoconjugates made with monoclonal antibodies and radionuclides emitting  $\alpha$  and  $\beta$  particles. Ongoing studies involve the construction of novel conjugates and evaluation of their effectiveness in producing human tumor regression in nude mouse model systems.

**315P** Postdoc./Research Assoc., Ph.D. or M.D. Available after January 1990. Study the function of the hematopoietic extracellular matrix with projects including matrix purification, the interaction of matrix with hematopoietic growth factors, and the effects of chemotherapy on bone marrow function. Send C. V. to S. D. Luikart, M.D., Box 325, University of Minnesota Hospital, Minneapolis, MN 55455.

**316P** Asst. Prof. (tenure track) in Mol. Biol. Postdoc. exp. Conduct independent research on genetic mechanisms of tumor progression and regulation of growth factor responses. Avail. immed. Contact Dr. Jack A. Roth, Box 109, M. D. Anderson Cancer Center, Houston, TX 77030 with CV and 3 refs.

**317P** Pre- and Postdoc. Fellowships in Environ. Mol. and Cellular Carcinogenesis/Mutagenesis. Conduct research within program that includes the role of growth factors and oncogenes in cellular transformation, the use of transgenic cells and animals and mol. tox. Avail. immed.: stipends from \$18,000 for postdoc. and \$8500 for predoc. Contact Dr. D. Warshawsky, Dept. of Environ. Health, Univ. of Cincinnati Med. Ctr., Cincinnati, OH 45267-0056.

**318P** Postdoctoral position available 8/89 to study role of signal transduction in differential susceptibility to lung tumor growth among inbred strains of mice. Involves cell biology, biochemistry, molecular biology. A. M. Malkinson, Mol. Environ. Toxicol. Prog., School of Pharmacy, Univ. of Colorado, Boulder, CO 80309-0297.

**319P** Asst. Prof. position available at Depart. Urology, Wayne State Univ. School of Med. for cellular immunologist with background in tumor immunology/adoptive immunotherapy. Expected to develop research program with extramural funding aimed at treatment of urological malignancies. Available now, \$40–50,000. Contact Dr. G. P. Haas, Dept. of Urology, W. S. U., Rm. 1017, 4160 John R Road, Detroit, MI 48201.

**320P** Res. Assoc./Postdoc. Fellow. Four positions avail. spring-fall '89 to examine the role of protein kinase C in differentiation and transformation. Studies will focus on the interaction of PKC with the *jun* oncogene. Basic techniques in prot. chem./molec. biol. required. Dr. A. Kraft, Div. Hem./Onc., 513 THT, 1900 Univ. Blvd., Birmingham, Alabama 35294.

**321P** Postdoc./Res. Assoc. (2): to study the molecular basis of tumor suppressor gene action and to identify and molecularly clone novel genes which modulate expression of the tumor cell phenotype. Avail. immed. (salary negotiable). Contact: Dr. P. B. Fisher, Columbia Univ., Coll. Phys. & Surg., New York, NY 10032 (212)-305-3966.

**322P** Postdoc./Res. Assoc.: to study the biochemical, immunological and molecular events mediating or associated with differentiation in human astrocytomas and melanomas and the role of multidrug resistance in regulating the cancer cell phenotype. Avail. immed. (salary negotiable). Contact: Dr. P. B. Fisher, Columbia Univ., Coll. Phys. & Surg., New York, NY 10032 (212)-305-3966.

**323P** Postdoc./Res. Assoc.: to study the molecular basis of carcinogen enhancement of viral transformation. Strategies to analyze this process will involve viral recombination, site-directed mutagenesis and cloning of cellular and viral genes whose expression is modulated by carcinogens. Avail. immed. (salary negotiable). Contact: Dr. P. B. Fisher, Columbia Univ., Coll. Phys. & Surg., New York, NY 10032 (212)-305-3966.

**324P** Postdoctoral Fellow, Ph.D. in biochemistry, molecular biology or related areas to work on interferon receptors and interferon-mediated regulation of cellular gene expression. Experience in nucleic acids and recombinant DNA techniques desirable. Avail. immediately \$19,000–\$24,000. Contact Dr. S. L. Gupta, Hipple Cancer Research Center, Dayton, Ohio 45439-2092.

**325P** Associate Cancer Center Scientist, Ph.D., biochemist with at least 3 years postdoctoral experience in glycoprotein/characterization and/or growth factors to conduct research on Hematopoietic Growth Factors (Meg-CSF). Avail. immediately \$30,000–\$42,000. Contact Dr. M. J. Murphy, Jr., Hipple Cancer Research Center, Dayton, Ohio 45439-2092.

**326P** Postdoctoral Fellow, Ph.D., with tissue culture expertise will further develop capillary cloning of human tumors and pursue pharmacokinetics of novel chemotherapeutic agents supplied under NCI contract. Avail. immediately \$19,000–\$24,000. Contact Dr. Xiang-e Peng, Hipple Cancer Research Center, Dayton, Ohio 45439-2092.

**327P** Postdoctoral fellow, Ph.D., in molecular biology or related with experience in glycoprotein purification will characterize and purify novel hematopoietic colony-stimulating factors utilizing in vitro clonogenic assays. Avail. immediately \$19,000–\$24,000. Contact Dr. M. J. Murphy, Jr., Hipple Cancer Research Center, Dayton, Ohio 45439-2092.

**328P** Postdoctoral Fellow, Ph.D., with cell culture expertise will employ capillary and Petri dish cloning of human canine and murine hematopoietic progenitors as a predictive assay for myelotoxicity of novel anti-cancer and anti-HIV chemotherapeutic agents supplied under NCI contract. Avail. immediately \$19,000–\$24,000. Contact Dr. De-Lin Du, Hipple Cancer Research Center, Dayton, OH 45439-2092.

**329P** Postdoc./Research Assoc. Ph.D. with experience in biochemical methods including enzymology. Conduct research with selected enzymes involved in metabolism, mechanism of action, or toxicity of anti-cancer drugs. Avail. after 7/1/89. Salary negotiable. Contact Dr. Robert B. Diasio, Box 600 Volker Hall, University of Alabama at Birmingham, Birmingham, AL 35294.

**330P** Postdoc./Res. Associate. Experience in tissue culture and drug-nucleic acid interactions required. Knowledge of molecular aspects helpful. Application to research on novel anti-AIDS drugs. Avail. immediately. Salary negotiable. Contact Dr. J. P. Sommadossi, Comprehensive Cancer Center, University of Alabama at Birmingham, Birmingham, AL 35294.

**331P** Postdoc. in Molecular Biol. Participate in ongoing program in cell. biol., retinoids and hormones as

related to mammary cancer. Avail. immediately. \$25,000–\$27,000. Contact Dr. R. G. Mehta or Dr. R. C. Moon, Life Sciences, IIT Research Inst., 10 W. 35th Street, Chicago, IL 60616.

**332P** Staff Scientist in Nutrition and/or carcinogenesis. Conduct research with interdisciplinary team in chemoprevention and carcinogenesis. Independent research in area of expertise. Avail. immediately. \$32,000–\$36,000. Contact Dr. Richard C. Moon, Life Sciences, IIT Research Inst., 10 W. 35th Street, Chicago, IL 60616.

**333P** Postdoctoral Fellowship in Cancer Biology/Chemotherapy/Resistance. Investigate various aspects of mammalian aldehyde dehydrogenase enzymology, regulation & molecular biology relative to biotransformation of oxazaphosphorines. Available immediately. Salary negotiable. Contact Dr. N. E. Sladek, Department of Pharmacology, 3-249 Millard Hall, University of Minnesota Med. Sch., Minneapolis, MN 55455.

**334P** Postdoctoral position to study action of oncogenes and protein kinase C on ion transport (PNAS 7/88, p. 5097). Prefer applicants trained in Molecular Genetics. Salary at NIH rates. Contact Dr. M. Lubin, Dept. of Microbiology, Dartmouth Medical School, Hanover, NH 03755.

**336P** Postdoc., Ph.D., M.D., or D. V. M.; Recent. Training program. Avail. immed. or future. Molec. and cell biol. of carcinogenesis, mutagenesis, genetic tox.; DNA damage/repair/mutation in specific genes; malignant transform. of human/rodent cells; gene/chromosome transfers; growth factors and oncogenes; flow cytometry or laser scanning micro. Only US citizens or perm resid. Contact Dr. David Kaufman, Dept. of Path., University of North Carolina, Chapel Hill, NC 27599–7525.

**337P** Research Associate. Outstanding opportunity to work with a group studying drug-resistant eukaryotic cells. Biochemical and molecular biological techniques are being utilized to follow expression of a membrane glycoprotein unique to the resistant cells.

**338P** Postdoctoral Position: Expertise in molecular biology needed to study gene expression of leukemia cell surface glycoproteins, glycosyl transferases and multidrug-resistant phenotypes. Writing skills essential. Equal Opportunity/Affirmative Action Employer. Send curriculum vitae to: Robert N. Taub, M.D., Ph.D., Columbia University Cancer Center, 630 W. 168th St., NY 10032.

**339P** Postdoctoral Fellowship studies investigating novel mechanisms of drug resistance in breast cancer. Current funding supports molecular and pharmacologic studies of drug transport and mechanisms of action. Experience in molecular biologic techniques highly desirable. Position available July 1, 1989. \$24–\$26,000. Contact: William S. Dalton, M.D., Ph.D., Univ. of AZ Cancer Center, 1515 N. Campbell Ave., Tucson, AZ 85724 (602) 626-4196. EEO/AA employer.

**340P** Postdoc. Strong bkgrd. mol. biol., biochem., or micro. to investigate molecular & cellular mechanisms of carcinogen-induced mutagenesis, genetic recombination, transformation of diploid human cells, & role of DNA repair. Approaches include transfection of oncogenes, shuttle vectors, PCR & sequencing of endogenous human genes, etc. \$21,000–\$26,000. Contact Drs. J. J. McCormick or V. M. Maher, Mich. State Univ., Carcinogenesis Lab-Fee Hall, E. Lansing, MI 48824.

**341P** Postdoctoral Positions, Guthrie Research Institute. Pos. 1: Regulation of macrophage cytokine secretion; background in cell biology, experience with signal transduction mechanisms desirable (Dr. D. Beezhold). Pos. 2: Surface antigens (biochem./mol. biol.) and mechanisms of NK and macrophage mediated cytotoxicity (Dr. R. Hall). Pos. 3: Biochem./mol. biol. of cytokine-induced myelomonocytic differentiation (Dr. R. Hall). Guthrie Research Institute, Guthrie Medical Center, Sayre, PA 18840.

**342P** Postdoctoral fellow in transgenic animals/mol. biol. Research in DNA repair, drug resistance and retroviral gene transfer. Available Oct. 1989–April 1990, \$17,000–\$25,000. Contact Dr. S. L. Gerson, Ireland Cancer Center, 2074 Abington Rd., Case West. Res. Univ. Sch. Med., Cleveland, OH 44106

**343P** Res. Assoc. Three positions available for molecular and biochemical studies of bioactive lipid control of adhesive protein receptor expression as it relates to control of tumor cell metastasis. Studies involve cloning of integrin genes from tumor genome,

regulation of PKC activity and cytoskeletal alterations during cell-cell interactions. Experience desirable in: protein biochemistry (emphasis on purification of cytoskeletal proteins or integral membrane proteins), screening of gene libraries, restriction mapping, metabolism of unsaturated fatty acids, and/or sterile tissue culture.

**344P** Asst. Prof. (tenure track) in Pharmacol. Postdoc. and teaching exp. Conduct independent res. on cancer pharmacology, mech. of action of drugs, and tumor biology. Limited medical/grad. teaching. Avail. June 1989. Salary negot. Contact Dr. John S. Lazo, Dept. of Pharmacol., Univ. of Pittsburgh Sch. of Medicine, Pittsburgh, PA 15261.

**345P** Postdoctoral Assoc./Res. Assoc. in Pharmacol., Ph.D. in life sciences. Conduct res. on mech. of action of anticancer drugs, tumor biol., carcinogenesis metast. and drug resist. Avail. ASAP, salary negot. Contact Dr. John S. Lazo, Dept. of Pharmacol., Univ. of Pittsburgh Sch. of Medicine, Pittsburgh, PA 15261.

**346P** Postdoctoral Associate in chemical carcinogenesis. Conduct research in any of following: molecular dosimetry, endogenous nitrosation, natural product isolation. Available anytime in 1989. \$22–25,000 depending on experience. Contact Dr. S. R. Tannenbaum, Division of Toxicology, Mass. Institute of Technology, Cambridge, MA.

**347P** Postdoctoral Fellow/Associate experienced in recombinant DNA techniques to direct cloning project of a membrane protein. Experience with tissue culture or monoclonal antibody production an asset. Salary range: \$18,000–\$25,000, available immediately. Contact: Dr. Thomas Chan, Purdue University, Lynn Hall, West Lafayette, IN 47907.

**348P** Postdoctoral Traineeship In Molecular Basis of Cancer. As a part of a continuing commitment to excellence in cancer research, MCF is offering postdoctoral training in the following programs: Breast Cancer Biology, Molecular Biology, Cancer Immunology, Carcinogenesis, Metastasis, Cell Transformation, and Genetics. Applicants will be selected on potential for achievement in cancer research. Previous training in molecular biology preferred. Stipends are \$22–\$24,000 depending on experience.

**349P** Cell biologist/biochemist with a strong interest in breast cancer, to establish a program in growth factor/oncogene research. Selection will be based upon experience, proven ability to develop an independent program as evidenced by current grant support and willingness to interact with established programs in a multidisciplinary approach. Expertise in primary culture of human and rodent cells desirable. Core support for the program will be provided by the Michigan Cancer Foundation (rank and salary commensurate with experience).

**351P** Postdoctoral Associate in Molecular Biology. Ph.D. req. Conduct research on regulation of oncogene expression during chem. carcinogenesis. Cloning, sequencing of 5' flanking region of mouse Ha-ras gene, RNA stability, DNA footprinting, CAT and Luciferase expression assays, PCR. Available fall 1989. Contact Dr. Jill Pelling, Eppley Cancer Res. Institute, Univ. Neb. Med. Ctr., Omaha, NE 68105.

**352P** Postdoctoral Fellow in Cancer Pharmacology Laboratory. Conduct independent research on mechanism of action of novel antitumor agents and/or preclinical and clinical pharmacology experimental anticancer agents. Available immediately. \$22,000–26,000. Contact Dr. M. M. Ames, Chairman, Oncology Research, Department of Oncology, Mayo Clinic, Rochester, MN 55905.

**353P** Postdoctoral Fellow (synthetic organic chemist) in Cancer Pharm. Lab. Conduct independent research on design, synthesis and characterization of novel anticancer agents. Areas of specific interest include mechanism-based inhibitors of *de novo* pyrimidine biosynth. and proteases. Avail. immed. \$22,000–26,000. Contact Dr. M. M. Ames, Chairman, Oncol. Res., Mayo Clinic, Rochester, MN 55905.

**354P** Molecular Biologist to work at innovative cancer biotechnology company to clone genes specifically expressed in major human cancers. Must have M.D. or Ph.D. with experience in gene cloning. Potential for advancement. Salary commensurate with experience. Contact Dr. H. Stathas-Halikas, AntiCancer, Inc., 5325 Metro Street, San Diego, California 92110.

**355P** Postdoc. Researcher to study the mol. control of the transition of nonmalignant tumor cells to a malignant phenotype. Ph.D. in Mol. Biol., Mol. Ge-

netics or Biochem. with exp. in Mol. Biol. tech. Exp. in chemical carcinogenesis desirable. Salary \$18,000–\$25,000. Contact Dr. George Milo, Ohio State Univ., Dept. of Physiological Chem., 1645 Neil Ave., Columbus, OH 43210.

**356P** Postdoctoral Research Associates (2) to contribute to NCI funded project on molecular mechanisms of drug resistance, or induction of retroviral gene expression. Available summer/fall. 1989. \$22,000+. Contact Dr. Jonathan Nyce, Dept. Pharmacology, School of Medicine, East Carolina Univ. Greenville, NC 27858. (919)551-2736. ECU is a constituent institution of the University of North Carolina.

**357P** Postdoctoral Fellowship in tumor immunology. Preclinical experience with murine tumors, immunology methods, cell culture. Conduct individual research on mechanisms of augmenting specific active immunotherapy. Available June 1989. \$25,000–35,000. Contact Dr. Jerry A. Bash, Surg. Cancer Res. Lab. Mount Sinai Med. Center, Miami Beach, FL.

**358P** Molecular/Cellular Biologist with strong publication record & Postdoc. experience in DNA damage and repair to participate in research with multidisciplinary team of investigators. Salary dependent upon background and exp. Send resume and publication record to Personnel Unit, Lovelace Inhalation Toxicology Research Institute, P.O. Box 5890, Albuquerque, NM 87185 or call 505-844-9431. Equal Opportunity Employer.

**359P** Postdoctoral Participant with recent (36 mos.) doctoral degree in life or physical sciences to participate in broad-based inhalation toxicology program. Stipend plus benefits & relocation allowance. Must be U.S. citizen or permanent resident. Apply Educational Activities Coordinator, Lovelace Inhalation Toxicology Research Institute, P.O. Box 5890, Albuquerque, NM 87185 or call (505)844-9431. An Equal Opportunity/Affirmative Action Employer.

**360P** Postdoctoral fellowship in tumor growth factor section. Requires strong background in the biochemistry of second messenger signal transduction pathways. Available March 1989. Salary \$25,000. This is an equal opportunity employer. Contact Dr. James Mulshine, Biotherapy Section, National Cancer Institute-Navy Medical Oncology Branch, Naval Hospital, Bethesda, MD 20814.

**361P** Postdoctoral position open immediately to investigate activation and/or expression of oncogenes, growth factors and growth factor receptors in spontaneous or chemically-induced liver tumors. NIH Funding. Contact: Dr. Stephen Strom, Box 662, Dept. of Pathology, Medical College of Virginia, Richmond, VA 23298.

**362P** Assistant/Associate Professor of Pharmacology. Tenure track appointment available January 1, 1990. Individual sought with expertise in molecular aspects of cancer pharmacology. Will be expected to establish an independent, funded research program and participate in departmental teaching and administrative activity. MD or PhD in biomedical sciences and two years' postdoctoral experience required. Applicants should submit c.v. and three letters of recommendation to Dr. R. L. Juliano, Department of Pharmacology, CB#7365, Faculty Laboratory Office Building, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7365. UNC-CH is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

**363P** Postdoc. Assoc. Mol. Biol. of Cancer. To conduct semi-independent res. on genes that confer resistance to TGFbeta in transformed epithelial cells. Avail. 7/89 (negotiable) \$22,000–30,000. Contact Dr. M. Reiss, Sect. of Medical Oncol. Yale Univ. Sch. Med., New Haven, CT 06510.

**364P** Research Post-Doc. Cancer Biology Focus on chromosomal translocations in leukemia and lymphoma and related issues. Contact Dr. Tim Meeker—VAMC—Hematology/Oncology, 4150 Clement Street, 111H, San Francisco, CA 94121, (415) 750-6903 or (415) 221-4810.

**365P** Post. Fellow in Mol. Cell. Biol. Conduct research on regulation of differentiation in tracheobronchial/epidermal cells. Effect of oncogenes/growth factors on differentiation process. Avail. June '89—\$20–26,000. Contact: Dr. Anton Jetten/Cell Biology/LPP/NIEHS/P.O. Box 12233/Research Triangle Park, NC 27709.

**366P** Postdoctoral Fellow in Molecular Carcinogenesis. Ph.D. in molecular biology/biochemistry. Experi-

ence/expertise in recombinant DNA methodology and regulation of gene expression. Opportunity to participate in a unique and active group investigating genes that specify sensitivity to transformation—relevant responses to tumor promoters. Avail. fall 1989—summer 1990. \$24,000–\$27,000. Contact Dr. Nancy H. Colburn, NCI-FCRF Bldg. 560, Rm. 21–89, Frederick, MD 21701.

**367P** Assistant and Associate Professor in the Department of Hematology at M.D. Anderson Cancer Center with access to one of the largest populations of patients with hematological neoplasms in the world and the opportunity to play a role in the development of experimental therapy for these disorders. Contact Dr. A. Deisseroth, Chairman, Department of Hematology, M.D. Anderson Cancer Center, 1515 Holcombe Blvd., Box 24, Houston, TX 77030, 713-792-8750/7953.

**368P** Post-doctoral fellowships at a yearly salary of \$26,000/yr. are available in the laboratory of the Chairman of Hematology at M.D. Anderson Cancer Center. The laboratory is focused on the molecular mechanisms of hemopathology differentiation in order to identify molecular approaches to treatment. Available immediately. Call Dr. A. Deisseroth at 713-792-8750 or write to the Department of Hematology, M. D. Anderson Cancer Center, 1515 Holcombe Blvd., Box 24, Houston, TX 77030.

**369P** Postdoctoral Positions Available. Two postdoctoral fellowships are available immediately. One to clone and sequence the cDNA of a new growth factor gene, another to produce monoclonal antibodies against a growth factor. Stipends commensurate with experience. Candidates should submit C.V., 3 reference letters to: Drs. James Chan and Leland Chung, Box 79 UT M.D. Anderson Cancer Center, Houston, Texas 77030. Tel. (713) 792-3630.

**370P** Postdoctoral Research Associates (2 positions). Research in carcinogenesis of PAH and estrogens, with emphasis on the one-electron oxidation mechanism. Strong background in chemistry and/or biochemistry required. Analysis and identification of metabolites and DNA adducts by HPLC, <sup>32</sup>P-postlabeling, and DNA sequencing. Salary \$19,000. Contact: Dr. E. G. Rogan or Dr. E. Cavalieri, Eppley Cancer Inst., Univ. Neb. Med. Ctr., Omaha, NE 68105. AA/EEO Employer.

**371P** Postdoctoral position (Ph.D.) to study the cellular pharmacology of new anti-tumor agents designed for drug carriers. Membrane transport, subcellular distribution, DNA damage and repair in sensitive and resistant cells. Available July 1, 1989.

**372P** Postdoctoral Fellow-Molecular Biology of Multi-State Carcinogenesis, to conduct research related to dominant forming genes, tumor suppressor genes and differential gene expression during carcinogenesis. Ph.D. or M.D. degree with some background in molecular biology and cell biology. The review of applications will begin May 1, 1989 and continue until position is filled. \$19,000–\$22,000. Dept. of RadOnc, UA Med. School, Tucson, Arizona 85724. The University of Arizona is an Equal Opportunity, Affirmative Action Employer.

**373P** Postdoctoral fellow in lymphokine action. Regulation of gene expression and immune effector cell function. Conduct independent research probing mechanism of action and biological response modification in man by interleukin 2, interferons, tumor necrosis factor and monoclonal antibodies. Salary range: \$17,000–\$22,000. Contact Dr. E. C. Borden or Dr. P. M. Sondel, Dept. of Human Oncology, Univ. of Wisconsin Clinical Cancer Center, 600 Highland Avenue, Madison, WI 53792.

**374P** Visiting Scientist (1–2 yr) in Cell Biology and Biochemistry to conduct independent research (100%) on the characterization of tumor derived bFGF and its receptor. Experience in receptor binding and molecular biology required. Full time research position available in spring of 1989. \$29,000–\$32,000. Contact Dr. Janet Gross Dzubow, E. I. du Pont de Nemours & Co., 500 S. Ridgeway Avenue, Glenolden, PA 19036, (215) 237-7868.

**375P** Postdoctoral Research Associate (non-tenured track) in cancer biology to conduct research on oncogene expression and growth factors in breast cancer. Available immediately. Contact Dr. David Kiang, Box 168 UMHC, University of Minnesota, Minneapolis, MN 55455 by July 31, 1989 or call (612) 624-6982. The University of Minnesota is an Equal

Opportunity Educator and Employer.

**379P** Postdoctoral position available immediately to study genetic alterations in human breast cancer. Background in molecular biology, biochemistry and genetics preferred.

**380P** CIIT, a not-for-profit toxicology research institute, offers diverse postdoctoral training opportunities in areas that include risk assessment, biochemical toxicology, molecular carcinogenesis/mutagenesis, and tumor growth and development. Stipend \$24,000 1st yr/\$25,500 2nd yr. Contact: Human Resources Manager, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709.

**381P** Postdoctoral Fellow, molecular biology of DNA damaging chemotherapeutic agents. Current program interests include drug modulation of oncogene expression, cloning of DNA repair genes, gene specificity of DNA crosslinking agents, and biochemical modulation of drug resistance. Experience in molecular techniques preferred. Salary negotiable. Dr. Leonard C. Erickson, Loyola University of Chicago Medical Center, Maywood, IL 60153.

**382P** Postdoctoral positions available immediately to conduct research in identification of new cytokines (growth inhibitors and stimulators) produced by the immune system and involved in tumor cell surveillance. Also, the role of oncogenes, signal-transduction and growth factors in the mechanism of tumor cell resistance to these cytokines. \$20–\$35K dep. on exp. Contact Dr. B. B. Aggarwal, Dept. of CIBT, U. Texas M.D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, Texas 77030. Equal Opportunity/Affirmative Action Employer.

**383P** Postdoctoral Position at the University of Maryland Cancer Center available Sept. 1989 to study interferon modulated growth factor receptor expression. Familiarity with molecular biological and cell culture technique preferred. Contact: Dr. Anne W. Hamburger, University of Maryland Cancer Center, 655 W. Baltimore St., Baltimore, MD 21201.

**384P** Asst. Res. Scientist (tenure track). Conduct independent res. in the mol. biol. and biochem. of human solid tumors. Res. interest/experience in DNA repair/recombination, or in gene plasticity, structure, or expression. Avail. June 1989. \$38,100–\$45,700. Contact Dr. Steven S. Smith, Div. of Surgery, City of Hope Natl. Med. Ctr., 1500 E. Duarte Rd., Duarte, CA.

**385P** Faculty Positions (Asst./Assoc./Full Prof.—tenure track) in Medical Oncology. Must be capable of establishing independent research program in clin. and/or basic research. Must be BE/BC in Med. Oncol. Avail. Immediately. Salary: Negotiable. Contact: J. M. Kirkwood, M.D., Chief, Div. Med. Oncology, Univ. of Pittsburgh and Pittsburgh Cancer Inst., DeSoto at O'Hara St., Pgh, PA.

**386P** University of Pittsburgh and the Pittsburgh Cancer Institute seek candidates for Medical Oncology Fellowship Training. Available: July 1, 1990. Salary: \$27,000., or commensurate with training. Contact: Marc S. Ernstoff, M.D., PCI—Div. of Medical Oncology, DeSoto at O'Hara St., Pgh, PA 15213-2592.

**387P** Instructor/Assistant Professor in medical oncology with major emphasis on breast cancer. Conduct clinical investigations with new drugs, biological and combined modality therapies. Very large patient population. Also responsibilities in teaching and direct patient care/consultations.

**389P** Sr. Scientist; Ph.D./M.D., 5 yrs exp.; develops & uses animal models to predict anti-tumor activity; optimizes protocols for use in human clinical trials; manages existing lab; Avail. immed., \$39–\$55k. Contact L. Fox, Tech. Recruiter, PRI, NCI-FCRF, P.O. Box B, Frederick, MD 21701.

**390P** Scientist; Ph.D., 2–3 yrs experience; design & conduct experiment to deter. effect of HIV vaccine; HIV isolations, assays, etc.; work with animals. Avail. immed. \$31–\$39k. Contact B. Norton-Gill, Tech. Recruiter, PRI, NCI-FCRF, P.O. Box B, Frederick, MD 21701.

**391P** Scientist/Postdoc; Ph.D., 0–5 yrs exp.; research on macrophage activation, gene expression & DNA-binding proteins. Avail. immed. \$25–\$39k. Contact B. Norton-Gill, Tech. Recruiter; PRI, NCI-FCRF, P.O. Box B, Frederick, MD 21701.

**392P** Research Assoc.; MS +2/BS +5 yrs exp; tissue culture; Western blots; ELISA; HPLC; FPLC; radioimmuno-precip.; chromatography; virus isolations, etc. Avail. immed., \$25–\$30k. Contact B. Norton-Gill,

Tech. Recruiter; PRI, NCI-FCRF, Frederick, MD 21701.

**393P** Research Assoc.; MS +2/BS +5 yrs exp.; immunogen prep.; hybridoma fusion & cloning; ELISA; RIA; MAbs; biohazards-BL3 lab. Avail. immed. \$25–\$30k. Contact B. Norton-Gill, Technical Recruiter; PRI, NCI-FCRF, Frederick, MD 21701.

**394P** Res. Assoc.; MS +2/BS +5 yrs exp.; *in vivo* & *in vitro* assays; cell culture; small animal handling; explore mech. of action of biol. therapies & immune responses. Avail. immed. \$25–\$30k. Contact L. Fox, Tech. Recruiter, PRI, NCI-FCRF, Frederick, MD 21701.

**395P** Postdoctoral Research Associate. Avail. July 1989. Ph.D. in Biochemistry or related field. Res. on the intracellular metabolism and mechanism of interaction with DNA of platinum anticancer agents. Experience with recombinant DNA techniques and/or HPLC separation preferred. Contact: Dr. S. Chaney, Dept. of Biochemistry, CB #7260, Univ. of N. Carolina, Chapel Hill, NC 27599-7260.

**396P** Senior Research Scientist to develop new cancer marker immunopathology and immunodiagnostic body fluid tests. Actively participate in the planning, evaluation, execution and commercialization of cancer diagnostic program related activities. Send your resume to Triton Biosciences Inc., Employment Dept. JJB, 1501 Harbor Bay Parkway, Alameda, CA 94501.

**397P** Research Scientist to work in the cancer diagnostic R&D Dept. Assist senior research scientist in immunoassay product development, cancer antigen characterization, hybridoma and immunohistopathology related areas. Send your resume to Triton Biosciences Inc. Employment Dept. JJB, 1501 Harbor Bay Parkway, Alameda, CA 94501.

**398P** Research Associate to work in the creation, maintenance, characterization and screening aspects of hybridoma/monoclonal antibodies. Working experience in tumor marker and immunoassay development is a plus. Send your resume to Triton Biosciences Inc., Employment Dept. JJB, 1501 Harbor Bay Parkway, Alameda, CA 94501.

**399P** The UCSF Can. Res. Inst. has an immediate opening for a postdoc. candidate with a strong background in molecular biology techniques. Familiarity with mammalian cell genetics or protein chemistry and interest in growth-regulating mechanisms of human breast cancer are also desirable. Please send resume, description of research interests, and names of references to: Dr. C. Benz, Can. Res. Inst., UCSF San Francisco, CA, 94143-0128 (415) 476-4149.

**400P** Postdoctoral Positions available immediately to study biochemical and molecular mechanisms of chemical carcinogenesis. Projects in several areas are available using mouse epidermis *in vivo* and/or keratinocyte culture models including: (i) DNA-repair mechanisms in keratinocytes in relation to differentiation stage, 3 types of DNA lesions, and location of DNA; (ii) role of oxidation in epidermal toxicity and skin tumor promotion by anthrones; and (iii) role of epidermal protein kinase C and other signal transduction pathways in mediating genetic differences in gene expression and tumor promotion in inbred mouse strains. Background in enzymology, free radical biochemistry, or molecular biology techniques would be helpful. Salary negotiable. Send curriculum vitae and the names and addresses of three references to: Dr. John DiGiovanni, University of Texas M.D. Anderson Cancer Center, Science Park-Research Division, P.O. Box 389, Smithville, TX 78957. The University of Texas M.D. Anderson Cancer Center is an affirmative action/equal opportunity employer.

**401P** Ph.D. Molecular and Cellular Biologists with strong nucleic acid-related experience are sought to study the regulation of cellular and viral gene expression using compounds which interact directly with DNA and RNA. The cellular recognition, uptake and transport of exogenous compounds are also an area of concentration. Gilead Sciences, Inc., 344 Lakeside Dr., Foster City, CA 94404.

**402P** Postdoc. in experimental pharmacology to work on RO-1 funded project in sequence dependent synergy of hydroxyurea with alkylating agents and topo II drugs. Rat model and *in vitro* work co-ordinated with clinical trials. State of the art HPLC, alk. elution, cell culture, flow cytometry. 1 yr. appt. which may be renewed, no teaching. AA/EEO. Available 7/1/89, \$20–\$25,000. Contact W. P. Vaughan, M.D., Dept. Int. Med., 42nd & Dewey, Omaha, NE 68105,

402/559-4311.

**403P** Research Scientist in Experimental Therapeutics. Manage in vitro laboratory (4 Technical Assistants) responsible for cytotoxic and non-cytotoxic drug screening. Develop new in vitro assays to find novel anticancer drugs. Avail. July 1, 1989. Contact Dr. A. R. Crosswell, Bristol-Myers, PRDD, 5 Research Parkway, Wallingford, CT 06492-7660.

**405P** Postdoc. Fellow in Cell. Immunol. Experience in cell culture & in vitro bioassays. Study natural products and Chinese medicinal herbs on host response in AIDS & cancer. Conduct independent research; develop in vitro assays and participation in ongoing projects. Avail. Jan. 1990. \$21,800. Contact B. Lau, M.D., Ph.D., Dept. Microbiol., Loma Linda University, Loma Linda, CA 92350.

**406P** Staff Researcher in Tumor Biology. Postdoctoral experience in animal tumor models. Develop *in vivo* tumor models to support basic and applied research on tumor cell growth regulation, oncogenes, and drug resistance. Training in cell and molecular biology would be useful. Avail. August 1989. Contact Dr. D. L. Slate, Dept. of Tumor Biology, Syntex Research, 3401 Hillview Avenue, Palo Alto, CA 94304.

**407P** Res. Sci./Sr. Res. Sci. in Biochem. or Mol. Biol. Postdoc. experience desired. Conduct res. on mechanism of action of tryptophan in normal and neoplastic tissues. Involves studies on nuclear receptors, purification and enzymatic assays of factors, and immunohistochemical localization. Avail. June 1989. Salary negotiable. Contact Dr. H. Sidransky, Dept. of Path., Geo. Washington Univ. Med. Ctr., Wash., DC 20037.

**408P** Postdoc. Fel./Res. Assoc.—Mechanistic studies of damage/repair processes in carcinogenesis, mutagenesis, and/or cell killing. Available 7/1/89. New labs in new building. Contact Dr. M. M. Elkind, Colorado State University, Ft. Collins, CO.

**409P** Postdoctorate/Research Assoc. Ph.D. with training in Mol. Biol. and interests in molecular and cellular mechanisms of carcinogenesis. Emphasis on elucidation and staging of altered proto-oncogene expression during experimental carcinogenesis. Private, internally funded research foundation. Salaries & benefits competitive. Avail. Sept 1989. Contact Dr. David Ringer, Head Biochem. Pharmacol. Section, Noble Foundation, Box 2180, Ardmore, OK 73402.

**410P** Res. Assoc./Postdoc. to study mechanism of action of ether lipid analogs, a new class of agents with antitumor and anti-HIV-1 activity and which are membrane-targeted, inhibit protein kinase C, activate macrophages, and differentiate leukemic cells. Original ideas encouraged. Salary negotiable to \$30,000. Available October 1989. Dr. Edward J. Modest, Dept. of Biochem. Boston Univ. Sch. of Med., Boston, MA 02118.

**411P** Postdoc./Research Assoc. Biochem.-Mol. Biol. to study cell-cell interactions in cancer metastasis. Experience in protein biochemistry and gene cloning helpful. Available Sept./89. Good possibility for academic promotion. Salary negotiable. Contact Dr. P. Brodt, Division Surgical Research, McGill University, Montreal, Quebec, Canada, H3A 1A4. (514) 378-7480.

**412P** Nutritionist: development and promotion of nutrition programs related to Kellogg's products to positively position the Company to respond to the interests and concerns of various audiences. Ph.D. Nutrition and/or Food Science. Two years' relevant experience. \$36-\$41. Contact P. W. Jones, Corporate Employment Services, Kellogg Company, Battle Creek, MI 49016-3599.

**413P** Postdoc. res. positions in Cell. and Molec. Tox. Dept. investigating mech. of oncogene activation and regulation, suppressor gene function, and sequence specificity for *in vivo* and *in vitro* mutagenesis. \$24,000/25,000 1st/2nd yr. Contact Coordinator of Training, Chemical Industry Instit. of Toxicology, P.O. Box 12137, Research Triangle Park, NC 27709.

**414P** Scientist positions in Molec. Carcin. Program. Investigating mech. of oncogene activation and regulation, suppressor gene function and sequence specificity for *in vivo* and *in vitro* mutagenesis. CV, reprints and summary of research interests to Human Resources Manager, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709.

**415P** Staff Scientist in mechanisms of chemically

induced leukemogenesis. Applicant would be part of an interdisciplinary team evaluating chemically induced leukemogenesis in rodents. Expertise in hematopathology, including the use of special stains and interest in the use of molecular and cell biology techniques to determine cell type, differentiation and kinetics. Available immediately. Contact: Dr. R. O. McClellan, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709.

**416P** Staff Scientist to work in mechanisms of pulmonary injury. Applicant would be part of an interdisciplinary team evaluating pulmonary injury induced by fibers and particles. Expertise in morphologic evaluation of lung with special emphasis on electron microscopy would be preferred. Interest in integrating morphologic approaches with biochemical, cellular and molecular biology techniques would be helpful. Available immediately. Contact: Dr. R. O. McClellan, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709.

**417P** Postdoctoral position to study oncogene activation and expression in chemical carcinogenesis at Monsanto Environmental Health Laboratory (St. Louis, MO). Candidates required to have experience in molecular biology with experience in oncogene research preferred. External publications and scientific interactions highly encouraged. Generous compensation package. Avail. June 1989. Contact Dr. L. D. Kier, Monsanto EHL, 800 N. Lindbergh Blvd., St. Louis, MO 63167.

**418P** Postdoctoral Research. Position available immediately for Ph.D. with strong background in mammalian cell biology/membrane biochemistry to join a research project investigating mammary epithelial cell differentiation, under the direction of Dr. Karen Thompson. Emphasis will be placed on determining if stage-specific markers for normal mammary epithelial cell development can be defined.

**419P** Postdoctoral position available immediately to conduct research on efficacy and mechanism of novel drug action in breast cancer and malignant melanoma. Avail. Nov.-Dec. 1989. Salary Negotiable. Contact Dr. K. S. Gulliya, Department of Immunophobiology, Baylor University Medical Center, Baylor Research Foundation, Dallas, Texas, 214-820-2687.

**420P** Research Assistant Professor: Successful applicant will have completed at least 3 years of postdoctoral work and will conduct independent research on oncogenes and/or the molecular biology of human tumors. Limited responsibilities for medical/graduate student teaching. Available September 1989. Contact W. F. Schmidt, M.D., Ph.D., Children's Cancer Research Laboratory, The USC School of Medicine, Columbia, SC 29203. Tel.(803)-733-3154.

**421P** Research Scientist in Cellular Immunology. Research using human T cells to identify human tumor rejection antigens. Avail. Immediately. \$30,000-\$35,000. Contact Dr. J. H. Ransom, Bionetics Research Inst., 1330A Piccard Dr., Rockville, MD 20850.

**422P** Postdoc. Fellow, Ph.D. or M.D. Conduct research on photochemistry, pharmacology and/or molecular biology of cationic sensitizers which target mitochondria and DNA in malignant cells. Contact Allan R. Oseroff, M.D., Ph.D., Roswell Park Memorial Inst., Buffalo, New York 14263.

**423P** Postdoc. Fellow, Ph.D. or M.D. Research on monoclonal antibody-photosensitizer conjugates which permit selective, laser-induced killing of malignant cells. Experience with immunochemistry desirable. Contact Allan R. Oseroff, M.D., Ph.D., Roswell Park Memorial Inst., Buffalo, New York 14263.

**424P** Postdoctoral Fellow in Pathology. Knowledge of molecular biology techniques required to conduct res. on oncogenes and suppressor genes during liver carcinogenesis. Available July 1, 1989. Contact Dr. Oscar Sudilovsky, Institute of Pathology, Case Western Reserve Univ., Cleveland, OH 44106.

**425P** Research in Mol. Biol. of Cancer. Studies on  $\alpha$ -fetoprotein gene transcription control; gene amplification; hepatocyte oncogenes. Basic research laboratory in conjunction with clinical molecular biology unit can provide mol. biol. training.

**426P** Cell culture technician with additional expertise in analysis of cisplatin-DNA interaction. To work in lab investigating modulation of cisplatin dose-response effect of toxicity. Approx. \$24,000. Contact Dr. Edith A. Perez, Hem.-Onc. section, UC Davis-VA Hospital Martinez, 150 Muir Road, Martinez, CA 94553 Tel. 415-228-6800. Ext. 681.

**427P** Postdoctoral fellow/research associate wanted for project investigating the mechanism of spontaneous induction of malignancy of mouse cells by human tumors when they are implanted in nude mice. Candidates should have experience in molecular biology techniques: Northern & Southern blot analyses, DNA cloning, DNA sequencing and *in situ* hybridization. Background in tumor biology and tissue culture is desirable but not essential.

Position is available September 1, 1989 at salary of \$21,000 in the Division of Medical Oncology, Pittsburgh Cancer Institute, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania. The Pittsburgh Cancer Institute is a National Cancer Institute funded Cancer Center. Please submit C.V., letters of reference and pertinent publications to Dr. Gupta's current address: Vicram Gupta, M.D., Division of Hematology/Oncology, Department of Internal Medicine, F56, The University of Texas Medical Branch, Galveston, Texas 77550, (409) 761-4868. Address replies after August 1, 1989 to: Vicram Gupta, M.D., Division of Medical Oncology, Pittsburgh Cancer Institute, Basic Research Building, 3343 Forbes Ave., Pittsburgh, PA 15213.

**428P** Research Scientist (potential for academic appt.) in Hematopoiesis Research Lab studying homeobox gene expression in hematopoietic cells. Postdoc. exp. with strong mol. biol. background. Avail. July 1989 \$30-\$35,000. Contact Dr. H. J. Lawrence, Medical Service (111H), VA Med. Center, Martinez, CA.

**429P** Biochemistry/Tumor Biology. Tumor cell invasion and metastasis, tumor progression, cell-extracellular matrix interactions, biochemistry of adhesion receptors (integrins) including mol. biol. \$24,000-\$30,000. Avail. immed. Contact Dr. R. H. Kramer, Dept. Anatomy/Stomatology, UCSF Box 0512, San Francisco, CA 94143.

**430P** Res. Assoc. leading to staff pos. in Biochem./Mol. Biol. Conduct res. in CNS malignancies. Exp. necessary in phosphorylation chemistry, protein characterization and gene cloning with emphasis on signal transduction. Avail. Sept. 1989, Salary \$22,000-\$27,000. Contact Dr. J. R. Shapiro, St. Joseph's Hospital & Med. Center, BNI, Phoenix, AZ.

**431P** Postdoc. in Mol. Biol. (3 pos.): *ras*-mediated tumor differentiation, mol. biol. of lung tumor progression, abnormal DNA methylation in human tumors. Utilizes gene transfer, gene cloning, DNA-protein interaction. Contact Dr. Barry Nelkin, Johns Hopkins Oncology Center, Baltimore, MD 21205.

**432P** Postdoctoral Fellowship. Two positions are available for individuals recently completing a Ph.D. in Biochemistry or related fields. NIH-funded projects involve the biochem. of proteins and genes involved in folate metabolism and new inhibitors of their function. See J. Biol. Chem. Oct 88, Jan 88. ~ 24k/yr starting July 1. R. G. Moran, University of Southern California, Los Angeles.

**433P** Asst. Prof. or Assoc. Prof. (tenure-track) in Medicine and Hematology or Oncology with focus on cancer prevention and molecular virology/biology. Must have MD degree, be Board eligible in Internal Medicine and Hematology/Oncology, and have pre- or postdoctoral training in molecular virology or biology. Available July 1, 1989. \$65,000-\$90,000. Contact Dr. David S. Alberts, Arizona Cancer Center, 1515 N. Campbell Ave., Tucson, AZ 85724.

**434P** Postdoc./Res. Asst. Prof. in preclinical experimental pharmacology *in vivo* and *in vitro*. Conduct research in chemical modulation of cancer drugs and drug resistance. Experience in animal and cell culture tumor models, pharmacology and analytical biochemical techniques desirable. Ph.D. or equiv. Avail immed. \$30,000-\$38,000. Contact Dr. Steven D. Averbuch, Box 1129, Mt. Sinai Medical School, One Gustave L. Levy Place, New York, NY 10029-6574 AA/EQE.

**435P** Tenure track position at Asst./Associate Professor level. Applicant should be willing to participate in current departmental research in intraoperative radiotherapy and hyperthermia. Applicant is expected to develop a strong research program and teach rad. onc. residents and bring grant funds or have such in 2 yrs. Salary (\$60-70 K) determined by candidates academic credentials. Send curriculum vitae and names and addresses of three academic references to: Alfred L. Goldson, M.D., Radiation Oncology, How-



ard University Hospital, 2041 Georgia Ave., NW, Washington, DC 20060.

**436P** Staff Research Biochemical Pharmacologist in Cancer Chemotherapy Research to develop novel anticancer agents. Experience in DNA Biochemistry, in the study of small molecules with DNA, or in DNA repair desirable. Available immediately (salary negotiable). Contact: Dr. S. F. Chen, E. I. du Pont de Nemours & Co., 500 S. Ridgeway Avenue, Glenolden, PA 19036, 215-237-7867.

## CANDIDATE LISTINGS

**300C** Ph.D., 1985, Biophysics; Alkaline elution, atomic absorption, gel electrophoresis, DNA extraction (cell/plasmid), mammalian/bacterial cell culture,  $H_2O_2/O_2^-$  assays, absorption/CD spec. Postdoc. 3 yrs., teaching exp. 1 yr. Seek acad. research position in radiation/free radical area. Avail. summer 1989. No geographic preference. Salary negotiable.

**301C** M.D., 1980; Internal Med., Board. Certif., 1983; 6 yrs. research exper. at NCI and Hopkins; Cell cycle gene regulation, G.F. receptor signal transduction, oncogenes/G.F.s in tumor progression, retroviral vectors/gene transfer, extensive experience in RNA analyses, serum free cell culture; seeks acad., indus., or govt. research position; salary negotiable.

**302C** M.D., 1988, Molec. Biol./Virol./Molec. Neurobiol./Neuropathol., recombinant DNA, subtractive hybridization, expression vectors, Northern/Southern/Western blotting, IEF, immunocytochemistry, diagnostic neuropathology. Postdoc. 1 yr., particular interests: suppressor-genes, CNS-tumors, homeotic genes, homologous recombination. Avail. October 1989. Prefer West coast.

**303C** Ph.D., 1989, Microbiol./Immunol.; Synergy of chemotherapy and adoptive immunotherapy in tumor eradication, *in vitro* generation of cytotoxic T-cells effective *in vivo*, T-cell clones. Seeking acad. postdoctoral position, 2-3 yr. Available Sept. 1989. Prefer California, Pacific Northwest, and Western States. Salary negotiable.

**304C** Ph.D. 1986, Pharmacol.; Pharmacokinetics, drug metabolism; develops chem. analysis, *in vitro* & *in vivo* survival assays, DNA damage assays. Postdoc. 3 yrs., some teach. exp. Seeks Acad./Indus./Govt. research position. Avail. Aug. 89.

**305C** Ph.D. expected 1989, Toxicology. Experience with tissue culture, HPLC, organic synthesis, mutagenesis testing. Participated in epidemiology, human monitoring, risk assessment studies. Interested in writing. Seek govt./industrial staff scientist position. Avail. Nov. 1989. Salary negotiable.

**306C** Ph.D., 1985, Medical Sciences/Biochemistry; Postdoc. 4 yrs., Nucleic Acids/Protein Chemistry/Molecular and Cellular Biology techniques. Teaching experience, 2 yrs. Seek tenure-track or industrial position. Signal transduction and topoisomerase II: effects on gene expression, cell differentiation, DNA d.s. breaks and antitumor drugs.

**308C** D.M.D., D.M.Sc., Harvard Univ., Oral Pathology-Immunology. Tissue culture, histopathology, cell matrix, receptors, immunol assays, liposome studies. Exp. expt animals. Postdoc. 4, 2 yrs; teaching, 7 yrs; advisor to postdoc and student theses, 7. Associate Professor Harvard. Seek acad./indus./govt. research position. Patents applied for pending. Avail. Sept 1989. Preference New England, Northwest, and Southwest.

**309C** Ph.D., 1976, Biochemistry; cell biology, tissue culture, differentiation, B-leukemias, MoAb generation & characterization, immunological assays, mouse x mouse human x mouse hybridomas, anti-idiotypic antibody, HBV, HIV, biochemical analytical assays, scale-up, fermentation. Industry or academia. Salary negotiable.

**310C** Ph.D., 1989, Cell signalling mechanisms (PKC in multidrug resistance); cell culture techniques, protein biochemistry. Seek acad. postdoc. in area of signal transduction. Avail. Oct. 1989.

**311C** Ph.D., Biochemistry. Chemical carcinogenesis, genetics, tissue culture, Northern/Southern/Western Blots/Oncogenes, nutrition, lipid metabolism. Present Medical School Faculty. Available July 1989, salary negotiable.

**312C** Ph.D., 1986, DNA Repair/Radiobiol./Mol. Biol.;

Tissue Cult., HPLC, Mol. Cloning, 2-D gels, PLDR, Neutr./Alk. elution, Prot./Biochem. Assays, topoisomerases, damage-Induc. Proteins. Postdoc. 3 yrs., teach. exp. 2 yrs. Seek Acad./Indus. Research Position Available Sept. 1990. Salary Negotiable. Prefer Eastern USA (Prefer Tenure-track position).

**313C** Ph.D., 1985, Toxicology/Molec. Biol.; carcinogen-DNA adducts, oncogenes, carcinogenesis. DNA restriction analyses, phage/cosmid cloning, nucleic acid electrophoresis, DNA sequencing, enzymatic amplification of DNA. Postdoc. 3 yrs. Seek acad./govt./ind. position. Avail. 6/89. Salary negotiable.

**314C** Ph.D., 1974, Genetic Toxicology; short-term genetic assays, toxicology, risk factor interaction, mediators, teratogenicity, inhalation, gene expression, nutrition, biochem. and metabolic analysis. 8 years teaching, community service, 15 years research, 5 years administration. Seek research/admin./regulatory position. Avail. June 1989. Salary negotiable.

**315C** Ph.D., 1989, Molec./Cell biology; Tissue culture, small animal surgery, Northern/Southern analysis, RNA isolation, DNA probes, *in situ* hybridization; Growth factors, monokines, oncogenes. Teaching experience. Seeks academic/industry position—salary negotiable. Avail. spring 1990.

**316C** M.D., 1979, cytogenet./molec. genet., blood cells, solid tumors, tissue culture, defined media, cell matrix, chromosome analysis, Southern/Northern, DNA probes, oncogenes, *in situ* hybridization, eukaryote cell transfection, genetic toxicol. Assistant Prof. seeks acad. research position. Avail. 1990. French.

**317C** Ph.D., 1977, Cell Physiology; tissue culture, nuclear proteins, immunochemical analyses, Western blots, flow cytometry, monoclonal antibody production, experimental carcinogenesis. Postdoc. 2 yrs., Research faculty 5 yrs., Faculty 5 yrs., Seek acad./indus. Research/Faculty position.

**318C** Ph.D., 1990, Cell Biol.; Tissue culture, Northern/Southern blots, DNA probes, nuclear runoffs, human tissue mRNA analysis, transcription, oncogenes, multi-drug resistance. Seek acad./ind./govt. postdoctoral position. Prefer East coast. Salary negotiable.

**319C** Ph.D., 1987, Cell Biol./Biochem; tissue culture, enzyme and metabolic assays, protein separation and purification, Northern/Western blots, R.I.A., H.P.L.C., immunological techniques, tumor induction and passage, animal surgery, autopsy and histochemistry. Postdoc. 1½ yrs., industrial experience. Seeks indus. research position. No geo. preference. Salary negotiable.

**321C** Ph.D., 1971, Immunol./Microbiol. Serology, cellular immunol. hybridoma, immunoblotting, cellular immunol., flow cytometry. Postdoc. 4 yrs, Teach. Exp. 4 yr., Clinical Cancer and preclinical rodent models, immunotherapy, vaccines, lymphokine. Seek acad./indus./research position. Avail. Sept. 1989. Prefer Northeastern States. Salary required \$50-60,000.

**322C** Ph.D., 1985, Biochemistry, Multistage carcinogenesis, molecular biology, enzymology, protein purification, oncogenes. DNA, RNA probes, northern, southern blotting. Postdoc. 4 yrs. Seek academic/indus. research position. Avail. Sept. 1989. Salary negotiable.

**324C** Ph.D., 1985, Physiol. Chem. (Mol./Cell Biol., Chem. Carc.); Tissue culture (human prostate, skin, lung, liver, blood cell strains), mutagen/tumorig./transfec. assays, Northern/Southern/Western blots, RNA/DNA probes, oncogenes, metab. studies, HPLC. Postdoc. 3 yrs. Seek perm. res. pos. (acad./indus.). Avail. July 1989.

**326C** Ph.D., '86, Med. Chem.: gene amplification, drug resistance, tumor progression. Tissue culture, chemosensitivity (HTCA), cytogenetics, *in situ* gene mapping, flow cytometry, pulsed-field gel elec. (FGE, CHEF), drug-DNA interactions (site-direct., repair, footprint.), DNA sequ., Southern blot., syn. chem., HPLC, nmr experience. Postdoc 3 yrs. Seek Acad/Ind. res./fac. pos. Seattle area. Avail. 6/89. Salary Neg.

**327C** Ph.D., 1985, Immunochem. Protein Chem. ELISA, Enzyme conjugation, Electrophoresis, HPLC, Cell. and Tumor Immunol. Flow Cytometry, Biol. Resp. Modifier, Lymphokines, Cytokines. Postdoc. 2 yrs. Sr. Scientist 2 yrs. 6 mo. staff scientist. Seek Indus./Acad. research position. Avail. summer 1989. Salary negotiable.

**329C** Ph.D., 1989, Biochemistry; TLC, GC, Radio-GLC, Radio-HPLC and General Lipid Analysis. Teaching Experience, 2 yrs. Seek acad./indus. research position. Avail. July 1, 1989. Salary negotiable.

**330C** M.B., B.S., 1978; Ph.D., 1986; Ph.D. in Biomedical Sciences/Pharmacol.; Pharmacokinetics, toxicology, tissue culture. Res. Assoc., 7 months; Proj. Invest., 2 yrs; Teach. Exp., 1 yr. Seek acad./industry/government research or administrative position. Available Sept. 89. Geographic preference, none. Salary negotiable.

**331C** Ph.D., 1985, Medicinal/Organic Chem.; Synthesis, NMR structural & conformational analysis, oligonucleotide duplexes, nucleic acids, carcinogen binding, polycyclic aromatic hydrocarbons, prostaglandins. Postdoc., 4 yrs. Seek acad./indus. research position. Available Jan. 1990. Salary negotiable.

**332C** Ph.D., 1974, Biophys. Chem., Enzymology, Enzyme Purification/characterization; protein and nucleic acid biochemistries; DNA Repair; rDNA techniques; tissue culture. Over 3 yrs. teaching exp., P. I. for funded research on DNA repair; protein nucleic acid interactions. Seek acad./research scientist position. Avail. Sept. 1989. Prefer Eastern USA. Salary negotiable.

**333C** M.D., 1980, Mol./Immunol., Cell culture & fusion Mab production, Immunodetect., flow cytometry, oncogene, Northern/Southern blots, DNA probes. Postdoc. 3 years. Seek acad. research position. Avail. Sept. Prefer west coast. Salary negotiable.

**334C** Ph.D., Late 1989, Molecular & Cellular Pharmacology. Techniques including Northern/Southern blots, DNA sequencing, subcloning, DNA alkaline elution, tissue culture, cytotoxicity assays. Interests —Molecular biology of oncogenes, DNA damage/repair, drug resistance. Seeking Postdoctoral position.

**335C** Ph.D. (6/89 anticipated), Molec./Cancer Biol.; Tissue culture, enzyme assays, protein isolation/purification, HPLC, Northern/Southern/Western Blots, DNA probes, protooncogene expression, cloning mammalian transfection studies, vector construction, murine surgery, tumorigenic. studies in nude mice. Avail. fall/winter 1989. Sk. postdoc. Prefer N. England or West. Salary negotiable.

**336C** Ph.D., 12/89-1/90, Cell Biol.; Tissue culture, cell-cell interactions, SDS-PAGE, Western blots, cell surface glyco-protein separation/analysis. Monoclonal antibody production, immunoassays, lectin affinity chromatography, cell adhesion, *in vivo* experimental metastasis assays/necropsy. Molecular basis of cell adhesion, Sr. Res. Assist. 2 yrs. Graduate student/Res. Assist., seek acad. postdoc. posit. 12/89-90.

**337C** Ph.D., 1962, Biochem./Cell Biol.; Tissue culture oncogenic viruses, oncogenes, biologic inhibitors, molec. biology, pharmacology, enzymology, drug development, radiochemistry. Postdoc. 4 yrs. Teach. Exp. 2 yrs. Seek acad./indus. research position. Avail. Oct. 1989. Prefer mid-Atlantic states. Salary negotiable.

**339C** Ph.D., 1990 (expected), Nutrition, Mol. Bio., Biochem.; Mechanistic studies of folate coenzyme. Exp. in DNA isolation & cloning techniques, sequencing, site-directed mutagenesis, protein purif., fluorescence, SDS gels, chromatography, autoradiography. Postdoc. in academic or industry desired. Available May 1990/ Prefer Northern Calif. Salary negot.

**340C** Ph.D., 1987, Biochem./Biophys.; CD/LD/absorption spectroscopy, electrophoresis, zymography, Western blots, cell culture, cell matrix, viral trans., proteases/inhibitors, viscometry, electron micros., column chromatog., protein purif., computer program./interfacing. Postdoc. 3 yrs. Seek acad./indus. research position. Avail. Sept. 1989. Salary negotiable.

**341C** Ph.D., 1986, Biochem/Biophys.; Enzyme mechanisms, pre-steady-state/steady-state kinetics, affinity labeling/peptide separation, HPLC, protein purification, column chromatography, SDS and Native gel electrophoreses, radio-isotope techniques, spectroscopic methods including stopped-flow rapid mixing spectroscopy. Postdoc. 3 yrs. Seek govt./industry research position. Avail. Sept. 1989. Salary negot.

**342C** Ph.D., 1980, Protein Biochemist/Cell Biologist; over 8 years acad./indus. research experience; familiar with all aspects of protein purification and characterization; tissue culture; particular expertise in enzymology of protein phosphorylation, 2nd messenger systems, multidrug resistance. Seeks acad./indus.

research position. Avail. Sept. 1989. Salary negotiable.

**343C** Ph.D., 1987, Biochem./Toxicol.; HPLC analysis (UV/Electrochem.), enzyme/vitamin analysis, protein purification, Postdoc. 2 years, Indust. Exper. 1 year. Seeks acad./indus. research position. Avail Nov 1989. Salary negotiable.

**344C** Ph.D. 1987, Basic Med. Sci., NYU; Tissue culture, transfection, infection, Northern/Southern/Protections, library construction/screening/subcloning/sequencing, cell surface staining, immpt./SDS-PAGE. Postdoc. 1-1/2 yrs. Seek industrial position, not necessarily involving benchwork, with career potential. Avail. summer 1989. Location within commuting distance NJ. Salary negotiable.

**345C** Ph.D. anticipated Dec. 1989, Pharm./Tox.; Mutagenesis (molecular mechanisms, sequence specificity), Lambda packaging, shuttle vectors, DNA sequencing, tissue culture gel electrophoresis, H.P.L.C., some teaching experience, seeks research position, available Jan. 1990, salary negotiable.

**346C** Ph.D., 1978, Biochem.; Eleven years post-graduate experience in the study of glucagon, melanoma growth regulation, melanogenesis and pre-clinical experimental therapeutics. Cellular regulation by peptide hormones has been examined by chemical semi-synthesis, photoaffinity labelling, and HPLC protein purification. Salary negotiable.

**347C** Ph.D., 1967; Biochem.; monoclonal antibodies, cDNA, carcinogenesis, tumor markers, protein chemistry, chromatography, electrophoresis, immunol. assays, enzymology, other routine biochem. procedures. 16 years plus experience in research, administration & teaching. Seeking position with larger organization. Location and salary open.

**348C** *In vivo*, *in vitro* experimentation of antineoplastic agents, conjugation of drugs to macromolecular carriers and monoclonal antibodies, SDS PAGE, ELISA, Western Blotting, cellular pharmacokinetic, cell fractionation, radiolabeled compounds, tumor transplantation, small animal surgery, HPLC, monoclonal antibody production. Postdoc. 4 years, teach 1 year. Seek academic/industrial research position. Salary and starting date negot.

**349C** Dr.Sc. 1980, Biochem./Cell Biol. Cell cycl.; Mitosis, MPF; tissue cult.; chromat./chromosomes; Prot. Biochem. Prot. Purif. HPLC, amino acid anal., polyamines, enzym. char. & kinet., gel elect., DNA/RNA/mRNA isol., ELISA, mono./poly. ab prod., blot, West., North., South.; Biochem. Pharm., Prot. kinase/phosphory. Teach./res./lab. admin. exp. Seek Faculty Post. in acad. or staff sci. in indus. Sal. Negot. Avail. Sept. 1989

**350C** Ph.D., 1985, Biological Chemistry. Enzymology, protein chem. DNA damage/repair, development of antitumor/antiviral (HIV) agents, organic synthesis, cell culture, drug metabolism/mechanism of action. Postdoc. 3 yrs., research assoc. 1 yr, teaching and supervisory experience. Seeks industrial/academic position. Salary negotiable.

**351C** Ph.D., 1986, Enzymol., Cell Biol.; extracellular matrix, cell-substrata adhesion, primary cell, cell culture, transformation parameters, hybridoma, protein purification, HPLC, gel elect., column chrom., enzyme kinetics, protein phos./dephos., radioactive protein labeling and membrane binding, polyclonal and monoclonal antibody, Western analysis, ELISA, autoradiography, immunofluorescence studies on membrane receptors. Seek research position in industry or academics.

**352C** Ph.D. - fall 1989, Cell biology: tissue culture, immunohistochemistry, Northern/Southern/Western analysis, protein characterization, SDS acrylamide and substrate gels, preparation of extra-cellular matrices. Seek postdoctoral position in acad./indus. Available fall 1989. Prefer West Coast. Salary negotiable.

**353C** Ph.D. 1988, Cell Biol./Nutrition Biochem.; tissue culture; membrane receptor/ligand interaction; membrane lipid/fluidity characterization; glucose transport; Northern/Southern blots; gene expression/transfection. Postdoc. 1 y. Teach. exp. 3 yrs., Seek acad./indus. research position. Avail. July 1989. Prefer Ann Arbor, MI area. Salary negot.

**354C** Ph.D., 1984, Pharmacology; tissue culture, hybridomas, analyses of tumor surface receptors, radio-immunoassays, immunological analyses, frozen sections, immunohistochem. methods, radiolabeling, purification and characterization of monoclonal

antibodies. Postdoc. 4 yrs.- Tumor Immunol., Immunopharmacol. and Exper. Carcinogenesis. Seek acad./indus. position. Avail. July 1989. Prefer Western states. Salary negotiable.

**355C** Ph.D., 1980, Microbiology; molecular/cell. biol.; tissue culture, cell cycle mutants and somatic cell genetics; Xgt11/gt10/Zap/subtractor cDNA library construction and screening, DNA sequencing, DNA and RNA isolation and analyses, DNA transfection, differential screening and chromosomal mapping. Seek acad./indus. research position. Avail. Sept. 1989. Salary negotiable.

**356C** Ph.D., 1985, Biochem. Pharmacol. and Mol. Biol.; Tissue culture, HPLC, *in vitro* cell survival assays, nucleic acid biochemistries, Southern/Northern/Western blotting, molecular cloning, DNA sequencing, polymerase chain rxn., gene transfer, gene regulation. Studying mechanisms of drug resistance. Postdoc. 3 1/2 yrs. Seek indus./acad. research position. Avail. summer 1989. Prefer West Coast/East Coast. Salary Negotiable.

**357C** Ph.D., 1985, Biochem./Molec./Cell Biol., Growth factors and receptors, transform., tissue culture, cell matrix, cDNA library construction and screening, gene cloning and expression, protein purif. and charact., amino acid utiliz. and metab. enzymol., animal studies and surgeries. Postdoc. 4 yrs., teach. exp. 1 yr. Seek acad./indus. position. Avail. Sept. 1989. Prefer New York City metro. area. Salary negotiable.

**358C** Ph.D. 1983, Cell biol.; 4 yrs. postdoc., 2 yrs. Sr. Res. Assoc. seeks research position in West. Extens. exper. in tissue cult., cytogenetics, flow cytometry, immunofluores. analys., general molec. biol. procedures. Available fall 1989. Salary negotiable.

**359C** Ph.D., 1975, Synthetic Chemistry; Drug design & development, structure-activity relationship, organometallics, UV-Vis-NIR, IR, NMR, EPR, Mossbauer, TLC, HPLC. Postdoc. 2 yrs., teach. exp. 17 yrs. Seek acad./indus. research position in drug discover/development/mechanism action/carcinogenesis. Avail. Sept. 1989. Salary negotiable.

**360C** Ph.D., 1985, Chemistry. Peptide synthesis, HPLC, NMR spect. ion exchange, folate biochemistry, tissue culture, growth/toxicity studies, enzyme assays, enzyme purification. Post Doc. 3 yrs. Several Publications. Oral Communication Skills. Seek acad./industrial res. pos. Prefer Northeast.

**361C** Ph.D., 1987, Toxicol./Pharmacol.; Drug metabolism, toxic mechanisms, cancer biochem., enzymology/protein chemistry, analytical & organic chem. techniques, tissue culture, animal modelling, pharmacokinetics. Postdoctoral experience 2 yrs., teaching experience 3\* yrs. Seek academic or indus. research position. Availability negotiable. No geographic preference. Salary open.

**362C** Ph.D., 1984, Cell Biology; postdoc. 2 yrs., tumor immuno; tissue culture, cell cycle, mutagenesis, tumor associated antigens, monoclonal antibody, SDS-PAGE, immunol. analyses; electron micro., west. blot, biochemical purification, immunoassays. Teach. exp. 1 1/2 yrs. Seek acad./indus. research/institute research position. Avail. January 1990. Preference: open. Salary negotiable.

**363C** Ph.D. 1981 Genetics/Cell Biol., 3 yrs postdoc, 5 yr acad. res./teach; enzymology and mol. biol. of DNA repair in mammals, monoclonal ab prod., mammalian genotox and mutagenesis, western blots, immunol. tech.; seeks acad./govt./indus. research position; Available 1 July 1989. Salary negotiable.

**364C** Ph.D., 1989, Micro./Immuno.; M.S., 1983, Biology; Tissue culture, animal models, molecular genetics, pharmacology, nucleoside metabolism, HPLC, electrophoresis, radiation biology, tumor biology. Extensive teaching experience. Seek acad./indus./gov. research/teaching position. Avail. Sept. 1, 1989. Prefer Southern states or California. Salary negotiable. Fluent English/Spanish.

**366C** Ph.D. 12/1983; Biological Chemistry; Tissue culture (adaptation of tumor cells for growth in serum and protein free media), isolation and identification of growth factors, peptide chemistry, RIA's, HPLC, receptor assays, development of polyclonal antisera, Westerns, MTT cell growth assays, clinical trial assays, setup of MacIntosh and IBM computer systems. 2 Postdoc. 4.5 yrs. Seek academic/industrial research position. Available Summer 1989. Salary negotiable.

**367C** Ph.D., 1989, Micro.; Tumor immunology, cell biology, hybridoma techniques, *in vitro* bio-assays,

tissues culture, SDS-PAGE, affinity chromatography, idiotype vaccines, interest in molec. biology techniques. Available summer 1989; postdoctoral fellowship. Prefer midwest to northeast.

**368C** Ph.D. expected in Dec. 1989, Med. Chem.; Chemical Carcinogenesis; Experience with mammalian cell culture, chromatography, HPLC, carcinogen-DNA adducts, carcinogen metabolism *in vitro*, chemopreventive agents, mouse epidermal DNA. Seek acad./indus./govt. postdoctoral position in cancer research. No geographic preference. Avail. Jan 1990. Salary negotiable.

**369C** M.S., 1989, Nutrition; B. A., 1983, Chemistry; Small animal studies investigating effects of dietary manipulations (fat, fiber) on colonic cell proliferation and differentiation; autoradiography, lectin fluorescence microscopy, GLC, bacterial assays. Seek acad./indus./govt. research position. Available Oct. 1989. Prefer San Francisco/Bay Area. Salary negotiable.

**370C** Ph.D., 1987, Biology; Signal transduction, intracellular free calcium, differentiation, mouse skin carcinogenesis, tumor promotion, digital image analysis, immunofluorescence, Western blots, tissue culture, biochem. analyses, *in vivo* assay, genetic toxicology. Postdoc. 2 yrs. Seek indus./govt. research position. Available July 1989. Prefer mid-Atlantic States. Salary negotiable.

**371C** Ph.D., 1984, Carcinogenesis/Immunol./Nutr. Biochem.; Cellular and Clinical Immunol., Human Hybridomas, Exp. Carcinogenesis, Nutr./Lipid Biochemistry. Postdoc. 3 yrs., Teach. Exp. 2 yrs. Seek indus./management position or acad. research/teach. appointment. Currently avail. Prefer North Carolina. Salary negotiable.

**372C** Ph.D. 1990 (expected), Nutrition, Toxicology, Biochem. Studies of oxidative stress, cancer promotion, Cytochrome P450 analyses, trace minerals (Fe, Se), thyroid hormone analyses. Experience in spectroscopic methods, fluores., animal work, prep. of hepatic and gastrointestinal tissues, diet prep; gels and Western blots, HPLC and RIA analyses. Postdoc. in academic, indus., govt. Avail Jan 1990. Prefer mid to south Atlantic states. Salary negotiable.

**373C** Ph.D. expected Jan.-Mar. 1990, Biochemistry-Carcinogenesis; B.S. 1985, Chem; cell culture, DNA isolation, HPLC, Western blots, cytochrome P-450, carcinogen metabolism and DNA binding of polycyclic aromatic hydrocarbons. Seek acad./indus./govern. postdoc. position. Avail. Jan.-Mar. 1990. Must locate in southern Maine. Salary negotiable.

**374C** Ph.D., Duke U. 1986; Biochemical Pharmacology. Enzyme kinetics, cell culture, autorad., HPLC, RIA, growth inhibition/DNA breakage assays. Postdoc. 2 yrs. Teaching exp. 5 yrs. Seeks acad./indus. research position. Salary negot.

**375C** Ph.D., 1983, Biochem. Pharmacol. Metabolism *in vivo*, *in vitro*, ion channel second messenger, transmembrane signalling, inositol phosphate, P21 probe oncogenes, enzymology, GTP binding protein, gel, iron, affinity chrom., HPLC, cell culture, cytotoxicity, RNA/DNA isolation, DNA, protein electrophoresis. Northern/Western blots, immunological methods, protein purification and characterization, antibody purification and evaluation: seek acad./indus. research post. Avail. nego.

**376C** Ph.D. 1989, Cancer Biology; mammalian cell culture, bacterial culture, integrin receptors, immunofluorescence, FACS, immuno-precipitation, immunoblots, Western blots, chromatography, animal surgery/handling, phlebotomy, TEM/SEM, RIA, adhesion, aggregation, coagulation assays, protein purification, teaching exp. 2 yrs. Seeking acad. faculty/indus. research position. Avail Jan. 1991. Prefer Midwest. Negotiable salary.

**377C** Ph.D. expected 1989; Tumor cell biology. Expertise in integrin receptor expression and regulation by cytoskeleton. Experience in tissue culture, adhesion assays to biological substrata, cytoskeletal and membrane protein isolation and characterization, immunocytochemical/immunoblotting techniques, aggregrometry studies. Postdoc. position in academia/industry. Avail. Jan. 1990. Salary neg.

**378C** M.D., 1981; Internal Medicine Boards 1986; combined Hematology/Oncology fellowship (4+ yrs) with basic research emphasis, seeks acad. or industrial research position. Experience in molec. & cell biol. emphasizing growth factors and inflammatory cytokines in marrow/hematopoiesis and endothelial inter-

- actions. Tiss. cult., receptor studies, *in situ* hybridiz. for cellular RNA, Northern, plasmid preps., Southern, Westerns, immunocytochem. Avail. winter 1989.
- 379C** Ph.D., 1983, Medicinal Chemistry; tissue culture, HPLC, southern blots, DNA transfections, plasmid and DNA isolation, biochemical assays, gel retardation assays, DNA repair and alkylation. Postdoc., 2 years; Assistant Professor (non-tenure track) 3 years; Seek academic faculty position—available September 1989. Prefer Chicago or surrounding area.
- 380C** Ph.D., will grad. late 1989. Biochem./Cell Biol./Hematotoxicol.; tissue culture, chemiluminescence, DNA isolation, probes, *in vivo/in vitro* toxicity, protein analysis. Seek acad./indus. postdoc. Available late 1989, early 1990. Prefer mid-Atlantic States. Salary negotiable.
- 381C** Ph.D. 1986. Molec./Genetics. Experiences: tissue culture/hybridoma, protein purification, protein sequencing, immunol. analyses, antibody generation and purification, Northern/Southern blots, DNA probes, cloning, DNA sequencing, oncogenes, RFLP linkage analyses. Postdoc. 3 yrs. Teach. exp. 2½ yrs. Avail. Sept. 1989. Prefer San Francisco Bay area. Seek acad./indus. research position. Salary Neg.
- 382C** Ph.D., 1987, Biochemical Nutrition. Four years management in Pharmaceutical industry: cytokines, immunotoxicology, arthritis, inflammation, cancer, AIDS. IND for FDA, clinical site monitor. M.S., 1981, Biomedical Sciences. Twelve years government and academic research: arachidonate metabolism, free radicals, radiation, tumor promotion and metastasis. Seek industrial or government position. Prefer RTP area. Available immediately.
- 383C** Ph.D. 1988. Prot. purification (conventional affinity & immunoaffinity), enzyme assays (spectrophotometric label), prot. phosphorylation, tissue culture, monoclonal Ab, SDS PAGE, HPLC TLC, RIA GC large & small animals Post doc 2 yr. Study new folate analogs in cancer res. Seeks indust./govt. res. pos. in area of folate or purine metabolism. Avail. 3/90. Salary negotiable.
- 385C** Ph.D., 1984, Env.Sc./Cancer Biol.; enzymology, HPLC, P<sup>32</sup>-post labelling, autoradiography, tissue culture, cytogenetic analyses, DNA adducts analyses. Postdoc. 3 yrs. Seek acad./indus. research position in molec. carcinogenesis/oncogenes. Salary negotiable.
- 386C** Ph.D., 1989, Pharmacology; tissue culture; mutagenesis, mutagenicity testing, alkaline elution, DNA/plasmid isolation, DNA transfection, Southern blotting, HPLC. Interests: DNA repair tumor biology, genetic toxicology, molecular carcinogenesis. Seek acad./indus. 2-3 yr postdoc. utilizing molecular biological techniques to study carcinogenesis/neoplastic transformation.
- 387C** Ph.D., 1987, Biophysics; electron microscopy; freeze fracture, transmission, scanning, immunogold, en bloc stains, image analysis, computerized statistical/spatial analysis. Microbial/mammalian systems. Postdoc. 3 yrs. Seek acad. position. Avail. summer 1989. Prefer Great Lakes/Northeast/Midwest areas. Salary negotiable.
- 388C** Ph.D., 1984. hormone receptor, biology, immunotoxin conjugation, FACS, immunotherapy, new photosensitizers and PDT, DNA probes PCR, blood banking virus killing, application of PDT in bone marrow and transplantation immunology, vaccine development, toxicology and clinical trials. Research Assoc. 4 yrs. Seek acad./indus. research position. Avail. Sept. 1989. No Geo. Prefer. Salary negotiable.
- 389C** Ph.D., Pharmacology, 1988. DNA repair and replication, biochemical pharmacology, mechanisms of drug resistance, tissue culture, HPLC, TLC, Northern blots, DNA probes, plasmids, DNA transfection, enzymology and enzyme purification, drug interaction studies. Seek indus./acad. position. Avail. Jan 1990. Prefer East or West Coast. Salary negotiable.
- 390C** Ph.D. Inorganic Chemistry. Postdoctoral Experience. 19 years experience in drug discovery/development: Pt antitumor drugs, gold complexes in arthritis radiopharmaceutical development, and metals in medicine. Teaching and industrial experience. Seeks acad./indus. research position. Prefer midwest-east. Salary & avail.—negotiable.
- 391C** Ph.D., 1989 expected; Pharmacology, cell and molecular biology; experience in analysis of growth factor production, oncogenic transfection of mammalian cells, liver cell culture, molecular biology techniques, immunoblotting; available winter 1989/90; postdoctoral position in academia or industry; salary negotiable.
- 392C** Ph.D. 1988. Cytokine/cell biology, Northern/Southern blots, RNA/DNA isolation, plasmid extraction, DNA probes, tissue culture, immunol. analyses, radio-immunoassays. Postdoc. 2 yrs. Seek Indus./acad. research. Available Jan. 1990.
- 393C** Dr. P.H., 1988, Toxicology; immunotoxicology, *in vitro* and *in vivo* immune responses, tyrosine kinases, PKC, cell surface receptors, oncogenes, biochemical and analytical chemistry. Postdoc. 1 yr. Teach exp. 1 yr. Seek acad./indus./gov. research position. Avail. June 1990. Prefer NC, southeast S.F. bay area. Salary negotiable.
- 395C** Ph.D., 1984, Molec./Cell Biol./Pharm. Interested in mech. of cell-cell interaction and membrane-mediated events inc. MDR. 5 yrs. postdoc exp. in protein chem. inc. P-glycoprot. Multidisciplinary approach. Currently Leukemia Soc. Spec. Fellow. Publications in JBC, JCB, PNAS. Avail. fall 1989. Seek Assistant Prof. or equiv. in academic/industry in Northeast corridor.
- 396C** Ph.D., 1987, Pharm.; chem. carcinogenesis, genet. toxicol., molec. biol., oncogenes, xenobiot. metab., 32P-postlabel., TLC, HPLC, gel elec., animal handling + dissect., computer analy., teaching exp. Postdoc 2 yr. Seek acad./indus. res. position. Avail. fall 1989. Prefer Midwest and eastern states. Salary Negot.
- 397C** Ph.D. 1987, Nutr./Biochem./Cell Biology. Vitamin A and D, retinoic acid and steroid hormone receptors, tissue culture, Northern/Western blots, RIA, ELISA, immunocytochemical staining, antibody purification, micro injection. Staff position in Govern./Indus./Acad./DC/Baltimore, MD area.
- 399C** Ph.D., 1986 Cell Biol./Microbiol. Tissue culture: extensive experience in cell culture and nutrition. Nucleic acid and protein isolation and purification, enzyme kinetics, column chromatog., HPLC, electrophoresis, blots. Computers—past work as computer consultant. Postdoc. 4 yrs. Seek acad./industry research. Available fall 1989.
- 400C** Ph.D. 1972. Immunology, Virology, Tumor Cell Biology; *in vitro*, & *in vivo* tumor cell culture, drug testing, radiolabelling, localization & efficacy studies, radiobiology, cellular immunology, B cell NK, CTL, macrophage assays, R & D of adoptive immunotherapy, nude mice modelling & tumor cell vaccines.
- 401C** Ph.D., 1987 Endocrinol/physiol; tissue culture, surface receptors, Western blots, protein purification, cannulation. Postdoc 2 yrs. Teach. exp. 3 yrs. Seek academic position. Available Sept 1989, preferably Sept 1990. Salary negotiable.
- 403C** Ph.D., 1988, Biochemistry; hormone receptors, protein purification and characterization, and tissue culture. Seek acad./indus. research position. Avail. Jan. 1990. Princeton, N.J. to Philadelphia area.
- 404C** Ph.D., 1988, Exp. Pathology—Radiology/Cell biology; tissue culture, *in vivo—in vitro* animal tumor models, tumor microenvironment; stress proteins—hsp/grp. electrophoresis/Western blots, immunofluorescence microscopy. Postdoc. 1½ yrs. Seek acad./indus. research post. Prefer New England Area.
- 405C** Ph.D. 1989. Cell Biol./Immunol. Tissue cult., surface receptors N/S/W blotting, immunoassays cytogenetics, 15 years lab. exp. Avail. Sept. 1989. Seek Acad./Indus. Res. Position. Prefer East/Southeast. Salary Negot.
- 406C** Ph.D. 1976, Mol. Bio. Genetic DNA damage and repair, cancer-prone genetic disease, carcinogenesis, gene cloning. Assist. prof. w/R01 grant. Seek tenure track position or equiv. indust. pos. Sal. negot.
- 408C** Ph.D. Biochem. 1982. Preclinical pharmacology and experimental therapeutics. Molecular mechanism of drug interaction and resistance. DNA, RNA sequencing, Southern/Northern/Western blots. Gene amplification by polymerase chain reaction (PCR). DNA transfection, tissue culture, HPLC, GC., TLC. Protein chemistry. Enzyme purification assay and kinetics. Seek ind./acad. pos. Avail. Nov. 1989.
- 409C** Ph.D. Candidate Env. Toxicology; tissue culture of lymphocytes and hepatocytes. Chromosome analysis of gammaglutamyl transpeptidase positive and negative cells separated by antibody affinity. Microsomal fraction preparation and analysis of DMBA metabolism of lymphocyte cultures. HPLC separation of metabolites. Seek acad./indus. research position. Avail. November 1989. Salary negotiable.
- 410C** Ph.D. 1980 Pharmacology; experience in drug screening, signal transduction, monoclonal antibodies, ELISA; Western blots, immunoprecipitation, etc. Toxicology, biochem. pharmacol., drug metabolism and mechanism of action, physical chem techniques. Seek indus. research position. Avail. immediately. Salary ≥ 45,000.
- 411C** Ph.D. 1984 Biochemical Pharmacology; Molecular Biology/Genetics. Transcription, anti-tumor/anti-viral drugs. mRNA analysis, Northern blots, S1 nuclease protection. Genomic sequencing/footprinting. 2 Postdoc's total 5 yrs. Seek industrial research position in U.K. Available Nov 89.

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# AMERICAN ASSOCIATION FOR CANCER RESEARCH

## 1990 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.

The AACR has operated a limited Employment Register since 1983 with a fee structure that has permitted only the listing of positions and candidates at the annual meeting. Beginning in 1988, AACR staff scheduled interviews at the annual meeting, and brief advertisements describing available candidates and positions were published in the *Proceedings of the American Association for Cancer Research* and in two issues of *Cancer Research*. These services will be continued in 1990. Registration forms for the 1990 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
— from a commercial organization	\$250

### 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 1 1/4" 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 12 copies.
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 February 1, 1990**, to ensure publication of listings in the *Proceedings*. However, candidate registration forms will continue to be accepted in the Association Office until May 1, 1990. After that date forms should be submitted at the annual meeting.
7. Mail all candidate registration forms to:

Employment Register  
American Association for Cancer Research, Inc.  
330 Market Street, 2nd Floor  
Philadelphia, PA 19106

### INSTRUCTIONS FOR EMPLOYERS

1. Supply all information requested on the position listing form for each position available.
2. Type a short description of the position available in the 5" x 1 1/4" 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 12 copies.
4. Enclose appropriate payment:
  - a. \$75 from AACR members in nonprofit or governmental organizations.
  - b. \$125 from nonmembers in nonprofit or governmental organizations.
  - c. \$250 from commercial firms.
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 February 1, 1990**, to ensure publication of listings in the *Proceedings*. However, position listing forms will continue to be accepted in the Association Office until May 1, 1990. 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.  
330 Market Street, 2nd Floor  
Philadelphia, PA 19106

### 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: Wednesday, Thursday, and Friday, May 23-25, from 8:00 a.m. to 5:00 p.m., and Saturday, May 26, from 9:00 a.m. to 12:00 noon. Each candidate and employer will receive an identification number. Registrants who submit their forms and fees by May 1, 1990, will receive from the AACR an acknowledgment which contains their identification number. Scheduling cards will be filled out at the annual meeting.

### PUBLICATION OF LISTINGS

Short advertisements describing each candidate and position listing will be published in Volume 31 (1990) of the *Proceedings of the American Association for Cancer Research* and in the September 1, and December 1, 1990, 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 provide the candidate's complete form to any registered employer who requests it.

As noted above, because of the early publication date of the *Proceedings*, forms must be received by February 1, 1990, to ensure publication in that document. However, all advertisements submitted before or during the meeting will be published in the two issues of *Cancer Research*. Registrants wishing to withdraw their advertisements must submit written requests to that effect to the Association Office by July 5, 1990, for the September issue, and by October 3, 1990, for the December 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.



I. D. Number \_\_\_\_\_  
(office use only)

**POSITION LISTING**  
**AMERICAN ASSOCIATION FOR CANCER RESEARCH**  
**EMPLOYMENT REGISTER**

(Please type and submit original and 12 copies)

**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)

\_\_\_ Biochemistry & Biophysics \_\_\_ Biostatistics \_\_\_ Carcinogenesis \_\_\_ Cellular Biology & Genetics \_\_\_ Clinical Investigations  
\_\_\_ Endocrinology \_\_\_ Epidemiology \_\_\_ Immunology \_\_\_ Molecular Biology & Genetics  
\_\_\_ Preclinical Pharmacology & Experimental Therapeutics \_\_\_ Virology \_\_\_ Other: \_\_\_\_\_  
(please specify)

=====

**EMPLOYER'S REPRESENTATIVE(S)**

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. Dates available for interviews:  
\_\_\_ May 23 \_\_\_ May 24 \_\_\_ May 25 \_\_\_ May 26

=====

**ADVERTISEMENT** (Please type a short description of the position in the box below. If received by February 1, 1990, your advertisement will be printed in the 1990 *Proceedings*. All advertisements will appear in the September 1, and December 1, 1990, issues of *Cancer Research*.)

**SAMPLE:** Asst. Prof. (tenure track) in Mol. Biol. Postdoc. and teaching exp. Conduct independent res. on oncogenes, chimeric antibodies, and mol. biol. of tumor antigens. Limited medical/grad. teaching. Avail. Sept. 1988. \$30,000-\$35,000. Contact Dr. A. C. Brown, Dept. of Mol. Biol., Smith Univ., Chicago, NY.

(This form may be reproduced )



I. D. Number \_\_\_\_\_  
(office use only)

## CANDIDATE REGISTRATION

### AMERICAN ASSOCIATION FOR CANCER RESEARCH EMPLOYMENT REGISTER

(Please type and submit original and 12 copies)

#### 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: \_\_\_\_\_  
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)

\_\_\_ Biochemistry & Biophysics \_\_\_ Biostatistics \_\_\_ Carcinogenesis \_\_\_ Cellular Biology & Genetics \_\_\_ Clinical Investigations

\_\_\_ Endocrinology \_\_\_ Epidemiology \_\_\_ Immunology \_\_\_ Molecular Biology & Genetics

\_\_\_ Preclinical Pharmacology & Experimental Therapeutics \_\_\_ Virology \_\_\_ 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 February 1, 1990, your advertisement will be printed in the 1990 *Proceedings*. All advertisements will appear in the September 1, and December 1, 1990, issues of *Cancer Research*.) DO NOT GIVE YOUR NAME AND ADDRESS; the AACR will assign identification numbers to each advertisement.)

**SAMPLE:** Ph.D., 1986, Molec./Cell. Biol.; Tissue culture, cell matrix, surface receptors, Northern/Southern/Western blots, DNA probes, immunol. analyses, oncogenes. Postdoc. 3 yrs., Teach. Exp. 2 yrs. Seek acad./indus. research position. Avail. Sept. 1989. Prefer mid-Atlantic States. Salary negotiable.

(over)

Name \_\_\_\_\_

I. D. Number \_\_\_\_\_  
(office use only)

**ACADEMIC TRAINING**

College or University	From/To	Major	Minor	Degree(s)
_____				
_____				
_____				
_____				

=====

**POSITIONS HELD** (list in chronological order, current position first)

Employer	From/To	Position/Nature of Duties
_____		
_____		
_____		

=====

**PUBLICATIONS** (list five most recent; include titles and co-authors)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

=====

**OTHER** (list specific areas of expertise, professional societies, honors, etc.)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

=====

**REFERENCES** (give name and business address)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

=====

**AVAILABILITY FOR INTERVIEWS AT AACR ANNUAL MEETING**

I \_\_\_ plan \_\_\_ do not plan to attend the AACR Annual Meeting in Washington.  
Dates available for interviews: \_\_\_ May 23 \_\_\_ May 24 \_\_\_ May 25 \_\_\_ May 26





# 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 live in the Americas and who are following a course of study or who are working in a research program relevant to cancer.

### BENEFITS OF MEMBERSHIP

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

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

### PROCEDURES FOR APPLICATION

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

to the Association Office at any time. After review of applications for associate membership, the Executive Director will notify candidates of their election or deferral within one month of the receipt of the application form. A check in the amount of \$20, which represents one year's dues payment, must accompany the application. This fee will be refunded to any candidate deemed to be ineligible for associate membership. Checks should be in U.S. currency, made payable to AACR, Inc., and drawn on a U.S. bank. Send the three copies of the application form and the \$20 dues payment to:

American Association for Cancer Research  
330 Market Street - 2nd Floor  
Philadelphia, PA 19106  
215/440-9300

### RESPONSIBILITIES OF MEMBERSHIP

Associate members must pay annual dues in an amount to be determined by the AACR Board of Directors. Dues for 1989 have been set at \$20 per year. If an application is submitted by August 31, the accompanying dues payment will be credited to the current year. Candidates submitting applications between September 1 and December 31 may indicate whether they wish their dues payments credited to the current or forthcoming year. Candidates should be aware, however, that associate members may sponsor an abstract for the annual meeting only if their dues for the current year are paid. For example, an associate member submitting an abstract in December 1989 for the forthcoming annual meeting must have paid dues for 1989. Any newly elected associate members of AACR who have already purchased subscriptions to *Cancer Research* at the higher, nonmember rate will receive a refund for the unused portion of that subscription upon receipt of their payment for a member's subscription.

Each Fall the AACR will send to current associate members an invoice for dues for the forthcoming year. Payment of this invoice must be accompanied by a statement signed by the associate member's registrar, dean, or department head, verifying the member's current academic status. The Association's By-Laws state that dues are payable for each year in advance on or before January 1 of that year. An individual may be an associate member for a maximum of five years. Each year in which an individual pays dues will count as one full year of associate membership. Thus, an associate member who pays dues for 1989 may retain associate membership until December 31, 1993. The board of Directors may terminate the membership of any associate member whose dues are in arrears for two years.

Margaret Foti,  
Executive Director

# AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC.

330 Market Street - 2nd Floor

Philadelphia, PA 19106

## APPLICATION FOR ASSOCIATE MEMBERSHIP

NAME OF CANDIDATE: \_\_\_\_\_ DATE OF BIRTH: \_\_\_\_\_

INSTITUTIONAL AFFILIATION: \_\_\_\_\_

INSTITUTIONAL ADDRESS: \_\_\_\_\_

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

TELEPHONE NUMBER: \_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

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

\_\_\_\_ Graduate Student      \_\_\_\_ Medical Student  
\_\_\_\_ Physician in Training      \_\_\_\_ Postdoctoral Fellow

PRIMARY FIELD OF RESEARCH (Please check only one):

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

(Please specify)

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CANDIDATE NOMINATED BY: \_\_\_\_\_

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

### SIGNATURES

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

Signature of Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature of Nominator: \_\_\_\_\_ Date: \_\_\_\_\_

Submit three copies of this form. At least one copy must contain the original signatures of the candidate and the nominator. Enclose a check for \$20 in U.S. funds made payable to AACR, Inc. and drawn on a U.S. bank. Check *one* of the following boxes *only* if this form is being submitted between September 1 and December 31:

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

(This form may be reproduced.)



AMERICAN ASSOCIATION FOR CANCER RESEARCH  
EIGHTY-FIRST ANNUAL MEETING

May 23–26, 1990  
Washington Convention Center  
Washington, D.C.

ADVANCE REGISTRATION FORM  
(please print or type)

NAME: \_\_\_\_\_  
Last First/Middle Initial First Name for Badge

ADDRESS: \_\_\_\_\_  
Institution  
\_\_\_\_\_  
Street, Building, or Post Office Box  
\_\_\_\_\_  
City State or Province Postal Code  
\_\_\_\_\_  
Country (if not U.S.) Telephone

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

WHAT IS YOUR PRIMARY FIELD OF RESEARCH (Please check only one):

☐ <sup>1</sup>Biochemistry and Biophysics ☐ <sup>2</sup>Biostatistics ☐ <sup>3</sup>Carcinogenesis ☐ <sup>4</sup>Cellular Biology & Genetics ☐ <sup>5</sup>Clinical Investigations  
☐ <sup>6</sup>Endocrinology ☐ <sup>7</sup>Epidemiology ☐ <sup>8</sup>Immunology ☐ <sup>9</sup>Molecular Biology ☐ <sup>10</sup>Preclinical Pharmacology & Experimental Therapeutics  
☐ <sup>11</sup>Virology ☐ <sup>12</sup>Other (please specify): \_\_\_\_\_

ARE YOU THE PRESENTER OF AN ABSTRACT SUBMITTED FOR THE 1990 AACR MEETING? ☐ Yes ☐ No

ON WHICH DAYS WILL YOU ATTEND THE 1990 AACR ANNUAL MEETING?

☐ Wednesday, May 23 ☐ Thursday, May 24 ☐ Friday, May 25 ☐ Saturday, May 26

WILL YOU ATTEND THE ASCO MEETING IN WASHINGTON? ☐ YES ☐ No

ON WHICH DAYS WILL YOU ATTEND THE 1990 ASCO ANNUAL MEETING?

☐ Sunday, May 20 ☐ Monday, May 21 ☐ Tuesday, May 22

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

☐ Active/Corresponding Member Rate \$ 65  
☐ Honorary/Emeritus Member Rate \$ 0  
☐ Nonmember Rate \$125  
(includes a copy of AACR *Proceedings*)  
☐ Associate Member/Student Rate\* \$ 35  
(does not include a copy of AACR *Proceedings*)  
☐ AACR *Proceedings*<sup>†</sup> \$ 25  
☐ Overseas Airmail Surcharge<sup>‡</sup> \$ 22

Total Enclosed or Charged \_\_\_\_\_

METHOD OF PAYMENT

☐ Check payable to AACR, Inc., in U.S. currency, drawn on a U.S. bank

\_\_\_\_\_  
Person/Institution issuing check Check No.

☐ MasterCard ☐ VISA ☐ American Express ☐ Eurocard

\_\_\_\_\_  
Account Number and Expiration Date

\_\_\_\_\_  
Signature

THE DEADLINE FOR REGISTRATION BY MAIL IS MARCH 30, 1990

\*Students must enclose a statement, signed by the registrar, dean, or department head of their university or college on official letterhead, confirming their status. Special student rates are available only to predoctoral students. 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 advance registration deadline as review of the associate membership application may delay registration.

<sup>†</sup>AACR members with paid-up subscriptions to *Cancer Research* receive the *Proceedings* automatically. Members who check this box and pay the \$25 fee will receive an additional copy of the *Proceedings*.

<sup>‡</sup>Optional payment for registrants outside of the U. S. and Canada only. Registrants paying this surcharge will receive meeting publications via air mail — printed matter before the annual meeting.

Mail all advance registration forms with applicable fees to Annual Meeting Registration, American Association for Cancer Research, Inc., 330 Market Street – 2nd Floor, Philadelphia, PA 19106. Receipts will be sent to you in April. AACR members in good standing will receive copies of the Program and *Proceedings* prior to the meeting. Nonmember and student advance registrants residing in the U.S. and Canada will also receive the Program before the meeting and (if they have purchased it) the *Proceedings*. Please note that nonmember registrants receive a copy of the *Proceedings* automatically, but if students are to receive a copy of this document before the meeting, it must be purchased at the time of advance registration.

REFUND POLICY

Refunds on registration fees will be granted on written request received in the AACR Office by May 18, 1990. 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. *Proceedings* are not returnable, and an additional \$25 will be deducted from refunds to nonmembers and students if this document has already been mailed.