If you are presently in the job market, a student anticipating graduation in 1993, or if you are an employer with positions to be filled, and wish to take advantage of our efforts on your behalf there's still time to enroll.

AAAS★93 Annual Meeting
HYNES CONVENTION CENTER, BALLROOM B
BOSTON — FEBRUARY 11-15, 1993

HOURS OF OPERATION

11 February 1993, Thursday
12:00 PM - 5:00 PM .............Employer Registration and Interview Scheduling
2:00 PM - 7:00 PM .............Candidate Registration

12 February 1993, Friday
8:00 AM - 5:00 PM .............Registration and Interview Scheduling
9:00 AM - 4:30 PM .............Interviews
9:00 AM -10:15 AM ..........Seminar: Interview/Presentation Skills
10:30 AM -12:00 PM ..........Seminar: Resume Writing
1:00 PM - 2:15 PM ..........Seminar: Interview/Presentation Skills
2:30 PM - 4:00 PM ..........Seminar: Resume Writing

13 February 1993, Saturday
8:00 AM - 6:00 PM .............Registration and Interview Scheduling
9:00 AM - 5:30 PM .............Interviews
9:00 AM -10:15 AM ..........Seminar: Interview/Presentation Skills
10:30 AM -12:00 PM ..........Seminar: Resume Writing

14 February 1993, Sunday
8:00 AM - 6:00 PM .............Registration and Interview Scheduling
9:00 AM - 5:30 PM .............Interviews

15 February 1993, Monday
9:00 AM -1:00 PM .............Interviews

Contact: Jacquelyn Roberts, AAAS Employment Exchange, 1333 H Street, NW, Washington, DC 20005; Phone: 202-326-6737 before January 20, 1993. OR, you may enroll on-site at the meeting in Boston.
POSITIONS OPEN

CELL GROWTH REGULATION
Institute of Pathology
Case Western Reserve University (CRWU)
A tenure-track ASSISTANT or ASSOCIATE PROFESSORSHIP is available for research in cellular control of growth in normal and malignant cells, such as transcriptional control and intracellular signaling. Applicants (M.D. or Ph.D.) should be fully trained scientists with a history of productive laboratory research. Successful candidates will be new to a newly constructed research space and interact with colleagues in immunology, transcription, and the molecular biology of cancer.

Send curriculum vitae, bibliography, names of three references and a summary of background and future research plans to: D. J. Templeton, Search Committee, Institute of Pathology, CRWU, 2085 Adelbert Road, Cleveland, OH 44106. CRWU is an Equal Opportunity/Affirmative Action Employer.

CHEMIST. Tenure-track ASSISTANT or ASSOCIATE PROFESSOR position available in the Department of Radiology, University of Pennsylvania. The successful applicant will be expected to join a strong research team in developing new imaging agents, specific emphasis will be conducting research in the development of new agents for in vivo magnetic resonance imaging and teaching at the graduate level. Candidate should have a Ph.D. in medical and/or organic chemistry, with working knowledge of MR imaging and pharmacology. Please send resume to: P. Kung, Ph.D., Department of Radiology, University of Pennsylvania, Room 305, 3700 Market Street, Philadelphia, PA 19104. The University of Pennsylvania is an Equal Opportunity Employer.

MAMMALIAN PHYSIOLOGICAL ECOLOGIST
We anticipate approval for a tenure-track ASSISTANT PROFESSOR position starting July 1993. Ph.D. required. Teaching and postdoctoral research experience desirable. The successful candidate will teach undergraduate courses at all levels including vertebrate zoology, ecology and animal behavior. In addition, they will be expected to participate periodically in introductory biology and the university-wide general education program. The appointee will join a biology faculty that is deeply committed to involving undergraduate students in research, and will contribute to this effort. Applications are especially encouraged from candidates in mammalian physiological ecology. Research interests are field-oriented. Please forward a letter of application with curriculum vitae, transcripts, a statement of teaching and research interests, and three letters of recommendation by January 29, 1993 and arrange to have three letters of recommendation sent as quickly as possible to: Dr. Randall Puller, Chair, Department of Biological Biology, College of Georgia, Hampton, NY 13346-1398. Women and minorities are encouraged to apply. Colgate University is an Equal Opportunity/Affirmative Action Employer.

DARTMOUTH COLLEGE
ENVIRONMENTAL STUDIES PROGRAM
CONSERVATION OF BIOLOGICAL RESOURCES
Dartmouth College invites applications for a tenure-track ASSISTANT PROFESSOR to begin fall 1993. We seek candidates with the conservation of biological resources including such topics as: biodiversity and sustainable use of lands; ecological and environmental consequences of changing land use patterns; and conflicts between natural resource use and conservation. Strong quantitative skills or expertise in spatial analysis desirable. The successful candidate will be expected to establish a vigorous externally funded research program and to teach at the undergraduate and graduate levels. Ph.D. in ecology, conservation biology, natural resource management, or related expanding fields. Submit curriculum vitae, statement of research and teaching interests, representative reprints, three letters of recommendation to: Environmental Studies Search Committee, Dartmouth College, 6182 Murdock Center–Room 12, Hanover, NH 03755. FAX: (603) 646-1279. Review of applications will begin on February 1, 1993. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

BOTANIST/ECOLOGIST
VISITING ASSISTANT PROFESSOR. One-year appointment in Plant Biology for 1993–94 academic year. May become tenure-track the following year. Teaching introductory biology, plant biology, and general ecology, and supervising greenhouse and associated facilities. A Ph.D. in plant biology is expected. The Ph.D. degree is required. Candidates with qualifications beyond Assistant Professor level will be considered. Send curriculum vitae, transcripts and three letters of recommendation to: Dr. John Ward, Dean, Centre College, 600 West Walnut Street, Danville, KY 40422. Centre College is an Equal Opportunity Employer. Applications from women and minority groups are encouraged.

FACULTY POSITION. The Department of Biochemistry and Molecular Biology in the College of Medicine solicits applications for a state-funded, full-time (12 months) ASSISTANT PROFESSOR. Applicants at other levels will be considered. Applicants should have a Ph.D. and/or M.D. degree with demonstrated excellence in research. The successful candidate will occupy laboratories in the new Arkansas Cancer Research Center. He/she will be expected to develop a funded research program related to cancer and work with colleagues in cancer research at the Medical Science Center. Applications are being invited for a position as: Charles G. Winter, Department of Biochemistry and Molecular Biology, Slot 516, College of Medicine, University of Arkansas Sciences, 4301 West Markham Street, Little Rock, AR 72205, by 15 February 1993. UAMS is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT or ASSOCIATE PROFESSOR: Neuropharmacology or Toxicology. The Department of Pharmacology, Therapeutics and Anatomy at the University of Kansas Medical Center invites applications for a tenure-track position at either the Assistant or Associate Professor level. Ph.D. or M.D. degree, with two or more years of postdoctoral experience is required for this position. The successful candidate will be expected to establish an independent research program in neuropharmacology, molecular neurosciences related to pharmacology or toxicology and contribute to the teaching of graduate and medical students. Applications from women and minorities are encouraged. Send curriculum vitae, names of three references and a statement of research interests to: Dr. S. Feinberg, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS 66160–7417. The University of Kansas is an Affirmative Action/Equal Opportunity Employer.

PLANT PHYSIOLOGIST/MOLECULAR BIOLOGIST. ASSISTANT PROFESSOR. Fall, 1993. Teach Plant Physiology, Plant Genetics, Basic Botany. Participation in teaching Radiation Biology and Basic Biology. Publish research in Plant Physiology or Molecular Biology. University teaching experience desired. Send letter of application, curriculum vitae, names of three references and a statement of research interests to: Dr. N. S. Watson, Biology Department, 79 University Street, Springfield, MA 01111. Initial screening of qualified applicants will begin immediately. Applications will be accepted until the position is filled. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.

Pfizer Research Awards in Synthetic Organic Chemistry

Pfizer is pleased to announce these awards which recognize excellence in synthetic organic chemistry and the central role of this science in biomedical research and development

— Senior Faculty Awardees —

Elias J. Corey  
Sheldon Emory Professor of Chemistry  
Harvard University

Samuel J. Danishefsky  
Sterling Professor of Chemistry  
Yale University

David A. Evans  
Abbott and James Lawrence Professor of Chemistry  
Harvard University

Clayton H. Heathcock  
Professor of Chemistry  
University of California, Berkeley

Barry M. Trost  
Job and Gertrud Tamaki Professor of Humanities and Sciences  
Stanford University

— New Faculty Awardees —

Eric N. Jacobsen  
Associate Professor of Chemistry  
University of Illinois, Champaign-Urbana

Andrew G. Myers  
Associate Professor of Chemistry  
California Institute of Technology

Scott D. Rychnovsky  
Assistant Professor of Chemistry  
University of Minnesota
FACULTY POSITION IN MICROBIOLOGY, North Carolina State University. Application dead-
line is being determined. Research, teaching and research position at the ASSISTANT PROFESSOR level. The
desired candidate will have research experience with the genetic manipulation of prokaryotes and eukaryotic
archaea bacteria and will develop an independent basic research program in that area. Opportunities exist for con-
sultation and joint research with faculty in other departments having applied projects in biomedience, resourced,
and waste management. Participation in the development of a new lecture-laboratory course and student advising
will be required. Applicants must possess a Ph.D. degree with at least two years of relevant postdoctoral experience.
Applicants should send curriculum vitae to: Dr. Michael J. Mulvey, Department of Microbiology and
Anatomy, Mercer University School of Medicine, 716 College Street, Macon, Georgia, 31201. MCG IS AN EQUAL OPPORTUNITY/AFFIRMATIVE
ACTION EMPLOYER.

DEVELOPMENTAL BIOLOGIST

The Department of Biology at Drake University invites applications from individuals with the Ph.D. degree
for a tenure-track ASSISTANT PROFESSOR position in developmental biology. Teaching responsibilities will include development biology and anatomy. Applicants with teaching experience and research interests in development biology and/or neuroanatomy are preferred. Expected start date is August 1993. The department expects excellence in both teaching and research.

TEACHING OVERSEAS

The Department of Biology at the American University of Beirut, Lebanon (AUB) invites applications for faculty positions at the level of Assistant Professor or above, to begin in Fall 1993. Individuals with specialization in the following fields are sought: Zoology and Comparative Vertebrate Anatomy, and Plant and Ecological Biology. Applicants should hold the Ph.D. degree and are expected to teach undergraduate and graduate courses and to conduct a research program. Postdoctoral experience is preferred. Appointments are normally for a three-year period. AUB is an Equal Opportunity/Affirmative Action Employer. Interested persons may send curriculum vitae and three letters of recommendation by March 1, 1993 to: The Dean of Arts and Sciences, c/o New York Office of the American University of Beirut, 850 Third Avenue, New York, NY 10022, U.S.A. Applications are invited for an ASSISTANT PROFESSOR position in the Department of Pharmacology, Cell and Molecular Biology. Outstanding candidates with specialized training in molecular biology, cell biology, and/or neurobiology are encouraged to apply.

PHYSIOLOGIST/BIOLOGIST

Ph.D. required. Tenure-track ASSISTANT PROFESSOR position. Duties include: teach physiology and
non-majors biology or freshman botany; maintain an active research program in specialty. Must demonstrate
ability and commitment to teaching. Initial appointment is for 1 year, renewable. Send curriculum vitae, statement of research interests, three letters of recommendation (to be sent directly from three referees) by May 15, 1993 to the appropriate Department Chair at: Brooklyn College/CUNY, 2900 Bedford Avenue, Brooklyn, NY 11210. An Affirmative Action/Equal Employment Opportunity Employer. M/F/H/V.

UNIVERSITY OF SOUTHERN CALIFORNIA

TECHNOLOGIST Postdoctoral Fellowship Position (Electrophysiologists, Molecular Biologists, Cell Biologists)
Applications are invited for an ASSISTANT PROFESSOR position in the Department of Pharmacology,
Cell and Molecular Biology. Outstanding candidates with specialized training in electrophysiology, molecular biology, cell biology related to drug targeting at the molecular level are expected to have a Ph.D. degree in the biological, chemical, or pharmacological sciences. Participation in team teaching at both the undergraduate and graduate level is expected. Please submit curriculum vitae, selected reprints, a short statement of future research plan, and the names and addresses of three references by May 1, 1993 to: Dr. H. L. Lee, University of Southern California, John Stauffer Pharmaceutical Sciences Center, 1985 Zonal Avenue, Los Angeles, CA 90033-1086, Telephone: (213) 342-3209. Equal Employment Opportunity Employer/ M/F/H.

ASSOCIATE OR FULL PROFESSOR, NEUROBIOLOGY

COLUMBIA UNIVERSITY

Applications are invited for three tenure-track positions in the Center for Neurobiology and Behavior, at
Columbia University, College of Physicians and Surgeons. Candidates must possess a Ph.D. or M.D. degree
and have at least two years of postdoctoral training. Successful candidates will be expected to develop a
vigorously independent research program in one of these areas: (1) Computational neuroscience (theoretical or
experimental approaches); (2) Analysis of cellular and molecular mechanisms of transmitter release; (3) Analysis of the function and control of transcription factors in the nervous system. Submit curriculum vitae, statement of research interests, three references, and summary of research objectives, to: Search Committee, Center for Neurobiology and Behavior, New York State Psychiatric Institute, 722 West 166th Street, New York, NY 10032. An Equal Opportunity/Affirmative Action Employer.
4th International Conference on Anticarcinogenesis & Radiation Protection
Mechanisms, Biomarkers, Molecular Diagnostics and Preventive Strategies
April 18-23, 1993
Inner Harbor, Baltimore, Maryland, USA

Conference Chairman: Thomas W. Kensler, Ph.D.; Co-Chairmen: Michael A. Trush, Ph.D. and Michael G. Simic, Ph.D.

KEYNOTE ADDRESS: I. Bernard Weinstein--Molecular mechanisms as a basis for cancer prevention

SESSION I:

SESSION II:

SESSION III:

SESSION IV:

SESSION V:

SESSION VI:
Roundtable Discussion--Strategies for Cancer Prevention: Diet, Foods, Additives, Supplements and Drugs (M.G. Simic)

SESSION VII:

CONTRIBUTED PAPERS: platform and poster sessions

For further program information, contact:
Thomas W. Kensler, Ph.D. or Michael A. Trush, Ph.D.
Division of Toxicological Sciences, Room 7032
Johns Hopkins School of Hygiene & Public Health
615 N. Wolfe Street, Baltimore, Maryland 21205 USA
Telephone: (410) 955-4712; FAX: (410) 955-0116
For registration, CME or general information, contact:
Jacqueline Corn, D.A., 4-ICARP Secretariat
Telephone: (410) 955-2609; FAX: (410) 955-9334

This announcement sponsored courtesy of the Henkel Corporation
Molecular Biologist/Biochemist

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has an excellent opportunity available in the Immunopathology Department for a Molecular Biologist/Biochemist to participate in a research program directed toward developing novel therapeutic agents for arthritis. The focus of the research will be to study gene regulation of matrix metalloproteinases and TIMP in normal and arthritic conditions.

The candidate will be responsible for performing techniques such as extraction, purification and analysis of mRNA; synthesis and cloning of cDNA; isolation and characterization of proteoglycans and their degradation products; and enzyme assay analysis. Preference will be given to candidates who have experience in establishing and maintaining cell and organ cultures of cartilage, synovium and bone.

Qualified candidates should have a BS or MS degree in Molecular Biology/Biochemistry with at least 3 years of experience. Interested persons should send their CV and list of references to Human Resources Department, Box JDM-92428, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke Free Work Environment"

EXECUTIVE DIRECTOR AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES

Position Description: The Executive Director of the American Institute of Biological Sciences is a full-time, senior level position, with administrative responsibilities for the Institute’s Office in Washington, D.C.

American Institute of Biological Sciences: Founded in 1947 as a component of the National Academy of Sciences, the American Institute of Biological Sciences (AIBS) became an independent, non-profit organization in 1955. Today it is a member-governed, umbrella federation of 50 scientific societies, museums and research laboratories, representing more than 80,000 biologists, students and others concerned with the life sciences. These individuals represent the full range of biological disciplines and are employed in colleges, universities, museums, industry, laboratories and government.

The Mission of AIBS is to address pressing biological issues, especially understanding and preserving biological diversity, to serve as a national representative for biologists, and to enhance biological education, research and interaction among professional biological societies. AIBS is devoted to advancing the basic biological, agricultural, environmental, and medical sciences and their applications to human welfare. The Institute translates its goals into action through broad-based participation by members, elected officials, affiliate societies and consorium partners from other sciences, by providing joint meetings, comprehensive publications including BioScience, and a unified voice for biologists, all supported by a full-time professional staff housed in the National Center for the Life Sciences in Washington, D.C.

Responsibilities: The Executive Director has the administrative and financial responsibility for AIBS, including working with the Board of Directors to set policies and program priorities, to serve affiliate societies and members, to supervise a professional staff of approximately 35 persons, to lead AIBS programs such as the large Annual Meeting, the Special Science Program and the publication of BioScience, to attract funding for special projects, and to serve as an articulate spokesperson and advocate for the biological sciences in Washington and nationwide.

Qualifications: Applicants should preferably have a Ph.D. degree in the biological sciences or closely related disciplines, at least ten years of professional experience in the biological sciences and considerable experience with the executive and legislative branches of the federal government, an appreciation for the research enterprise, and well-developed writing and speaking skills. In addition, applicants should be able to demonstrate innovative leadership and excellence in multidisciplinary organizations.

Applications: Applicants should submit a letter of intent, resume, and the names of five referees by February 10, 1993. Inquiries and applications should be addressed to Paul G. Risser, President’s Office, Roushbusch Hall, Miami University, Oxford, OH 45056. AIBS is an Equal Opportunity/Affirmative Action employer.

POSITIONS OPEN

BIOLOGIST in Physiological Biology. Tenure-track ASSISTANT PROFESSOR position to begin August, 1993. Teaching responsibilities in undergraduate Biology and Environmental Studies Programs and master’s-level Environmental Biology Program include introductory biology and environmental studies, comparative physiology, toxicology, and additional courses in assigned expertise. Must have a Ph.D. The advantage of opportunities for collaboration with research laboratories in the Frederick-Washington-Baltimore region, and develop a student-oriented research program. Hood College, located in beautiful, historic Frederick, is consistently a top-rated comprehensive institution. Submit letter of application, curriculum vitae, and three letters of recommendation to: Dr. John A. Conklin, Co-chair, Department of Biology, Hood College, 401 Rosemont Avenue, Frederick, MD 21701-8575, before February 1, 1993. Hood College subscribes to the policy of hiring only U.S. citizens and lawfully authorized alien workers. We actively encourage applications from women and members of minority groups. Equal Opportunity Employer.

ASSISTANT PROFESSOR, PHARMACOGNOSTY (natural products chemistry, bio-organic chemistry). Ph.D. required in an area of discipline such as pharmaceutical sciences, natural product chemistry, biochemistry, or immunology. Postdoctoral training is required. Evidence of or potential for excellence in teaching and research is required. This is an academic year, tenure-track position effective September 1, 1993. Interested persons should submit curriculum vitae and the names of three references by February 26, 1993 to: Yumiko Shinzui, Search Committee Chair, (Log # 161048), UNIVERSITY OF RHODE ISLAND, P.O. Box G, Kingston, RI 02881. An Affirmative Action/Equal Opportunity Employer.

ENTOMOLOGY. ASSISTANT PROFESSOR. Tenure-track, August 1993. We seek a Ph.D. committed to undergraduate teaching in general biology and entomology and active research. Primary duties are teaching general biology (including botanical topics), entomology, and supervising undergraduate research. Send application, letter of recommendation, and research statement to: Environmental Science Search, Department of Biology, University of Wisconsin–Eau Claire, Eau Claire, WI 54702–4004. Applicant screening begins February 15, 1993. The University of Wisconsin–Eau Claire is an Affirmative Action/Equal Opportunity Employer. Applications from women and persons of color are particularly welcomed.

ASSISTANT PROFESSOR. Small, church-related, liberal arts college seeks broadly trained biologist to teach courses in plant biology, cell/molecular biology, microbiology and general biology; will direct students in undergraduate research and research lab facilities. Send curriculum vitae, transcripts and three reference letters to: Dr. Dale Goldsmith, Vice President for Academic Services, McPherson College, McPherson, KS 67460. Telephone: (316) 241-0731. Deadline is January 15, 1993, to assure full consideration. McPherson College is an Equal Opportunity/Affirmative Action Employer by choice.

ASSISTANT/ASSOCIATE PROFESSOR, CELL AND MOLECULAR BIOLOGY OF AGING

The Roy M. and Phyllis Gough Huntington Center on Aging is expanding its research programs and invites applications for faculty positions to complement its current activities. Candidates should have a Ph.D. or M.D., demonstrated ability to pursue independent research in Cell and Molecular Biology, and research interests closely related to the basic biology of the aging process. Applicants for the Associate Professor position should have an established, nationally recognized research program in this area. The appointment will be tenure-track in an appropriate basic science department at Baylor College of Medicine. Applicants should send curriculum vitae, statement of research interest, and three references by March 1, 1993 to: Chairman, Cell and Molecular Biology of Aging Search Committee, Huntington Center on Aging, Baylor College of Medicine, One Baylor Plaza, M320, Houston, TX 77030–3498. Baylor College of Medicine is an Equal Opportunity/ Affirmative Action/Equal Access Employer.
ASSISTANT PROFESSOR, BIOLOGY

The Biology Department of Gettysburg College invites applications for a one-year sabbatical replacement beginning in September, 1993. Teaching responsibilities will include one upper division course in Plant Taxonomy, one in the applicant's area of interest, participation in the first-year introductory biology course, and work with senior students on research projects. Candidates must have a Ph.D. in biology. Gettysburg College is rated as a highly selective liberal arts college and is located near the Washington/Baltimore area. Gettysburg College is an Equal Opportunity/Affirmative Action Employer; women and minorities are encouraged to apply. Submit curriculum vitae and the names and addresses of three referees, at least one of whom can speak to the applicant's teaching effectiveness, to:

Dr. Ralph A. Sorensen, Chairman
Biology Department, Box 392
Gettysburg College
Gettysburg, PA 17325

The review of completed applications will begin February 15, 1993 and continue until the position is filled.

FACULTY POSITION IN BIOLOGICAL CHEMISTRY AT UHS/CHICAGO MEDICAL SCHOOL-ASSISTANT or ASSOCIATE PROFESSOR. Tenure-track appointment available for an experienced investigator in the area of protein structure/function. Preference given to mechanistic, mutagenesis, folding, spectroscopic or other physical biochemical approaches. Systems of interest include receptors, growth factors, viral proteins, nuclear acid binding proteins, catalytic antibodies. Candidates must have an established, independent, and viable research program with a proven record of accomplishment. The excellent research environment and modern facilities of the school are located in a pleasant North Shore suburb 30 miles north of the Loop. Send letter of application, curriculum vitae, names of references, and description of research to: Dr. K. E. Neer, Chairman, Department of Biological Chemistry, UHS/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. An Equal Opportunity/Affirmative Action Employer.

ANATOMY FACULTY POSITION: Applications are invited for a full-time position at the level of ASSISTANT or ASSOCIATE PROFESSOR. Teaching responsibilities will be in Histology, Neuroanatomy and Gross Anatomy. Research opportunities are available. Send curriculum vitae and names of three references to: Chairman, Department of Anatomy, University of Osteopathic Medicine and Health Sciences, 3200 Grand Avenue, Des Moines, IA 50311. The University is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR of Ophthalmology with a joint appointment in a basic science department at the Mount Sinai School of Medicine of the City of New York, N.Y. We invite applications for an initial five-year appointment in a tenure-track position. The candidate must be an independent investigator from a basic biomedical science discipline who is willing and able to develop and apply cell biology/molecular biology techniques to experimental projects in vision science research. We will provide initial scientific support and collaboration with senior investigators who have established experimental eye research programs in the department. Generous start-up funds, yearly research support, and core facilities are available. Candidates should send curriculum vitae, a two-page summary of current research, and three names for possible references to: Oscar A. Candidi, M.D., Box 1183, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6874. An Equal Opportunity Employer.

Biological Tenure-Track Position ASSISTANT PROFESSOR AQUATIC BIOLOGIST/GENERALIST—responsible for teaching advanced courses in Estuarine and Coastal Biology, Freshwater Biology, Marine Biology. Required to teach intro courses for majors and non-majors. Experience in Anatomy and Physiology is plus. Ph.D. is required, computer experience desirable. Send application, curriculum vitae, statement of teaching philosophy, summary of research goals and three letters of recommendation by January 31, 1993 to: Dr. William Tramontano, Chair, Department of Biology, Manhattan College/College of Mt. St. Vincent, Riverdale, NY 10471-1092. Women and minorities are encouraged to apply. Equal Opportunity Employer/M/F/Affirmative Action.
Research Associates
Receptor Biology

Our research is focused on the identification and characterization of new growth factors. Experimental approaches are multifaceted and include analyses of nucleic acids, proteins, and cellular responses. You must possess a BS/MS in molecular biology, cell biology, or related field, coupled with a minimum of 2-3 years' experience. Additionally, you should be familiar with standard molecular biology techniques which includes PCR, Northern, Southern, Western analyses and DNA library screening. Training in tissue culture is desirable. Highly motivated individuals seeking independence are encouraged to apply.

At Amgen, we invest our employees with the freedom to manage their affairs, regulate the quality of work, and make decisions within company goals. And we back this freedom with meaningful challenge and responsibility, as well as a compensation and benefits package that reflects the level of our commitment. Interested candidates should submit their resumes, in confidence, to Amgen, Inc., Staffing Dept. Job Code S510, MS 10-1-A-411 Amgen Center, Thousand Oaks, CA 91320-1789. Equal Opportunity Employer M/F/DV.

MEET AMGEN

Our entrepreneurial environment naturally evolves as a function of our mission: the development of recombinant DNA-based human therapeutics, utilizing the principles of cellular and molecular biology... through rapid product development and innovative commercialization strategies.

AMGEN

M.D.

HEAD MEDICAL ONSCOLOGY

FACULTY POSITION

UNIVERSITY OF ROCHESTER CANCER CENTER

The Medical Oncology Division of the University of Rochester Cancer Center and the Department of Medicine of the University Medical Center (Strong Memorial Hospital) are seeking applicants for a position at the Assistant or Associate Professor level. Applicants must be board certified in Internal Medicine, board certified/board eligible in Medical Oncology and have had some experience in the conduct of clinical trials and/or basic science in oncology research. The successful candidate will interact with the basic and clinical scientists, have access to and support a variety of shared resources within the Cancer Center, and will be encouraged to conduct either clinical or laboratory programs with independent funding within a reasonable time after appointment.

Direct patient care responsibilities will not exceed 20% time and effort. The University of Rochester Cancer Center is a Designated National Cancer Institute supported center with a large clinical and basic science faculty. The Medical Oncology Division emphasizes clinical trial research (intramural and extramural via the Eastern Cooperative Oncology Group) in a setting of maximum support from nursing, pharmacy and social work services. The position will be filled by July 1, 1993. Applicants should send their c.v. and three letters of recommendation to:

John M. Bennett, M.D.
Head, Medical Oncology Unit
University of Rochester Cancer Center
601 Elmwood Avenue, P.O. Box 704
Rochester, NY 14642

Water Quality

Senior Microbiologist

(Limnologist)

$4,782 - $5,906/mo.

MWD, one of the world's largest water agencies, seeks an experienced limnologist. This is a working supervisor position to provide field support for water quality monitoring throughout Metropolitan's system and conduct basic and applied research on taste and odor control, storm water runoff, water quality and aquatic weed control. Advanced open water diving certification is desired. Demonstrated experience required with design and execution of limnological field studies including statistical analysis, report writing, and oral presentation. M.S. in limnology related Aquatic Sciences desired with at least two years' management or supervisory experience. Position location: City of La Verne. Limited relocation assistance available.

To request an application, call 1-800-540-6311 (in CA) or (213) 250-6453 and refer to Job Code 92-215 JB. Resumes cannot be substituted for a completed application. Open only until sufficient applications are received. MWD supports the principles of equal opportunity and affirmative action. Women, minorities, veterans and the disabled are encouraged to apply.

MWD

METROPOLITAN WATER DISTRICT

OF SOUTHERN CALIFORNIA

We Tap Only The Best

THE NATIONAL RESEARCH COUNCIL announces
Resident Research Associateships Awards to be offered in the fields of
Plant/Microbe Interactions and
Transgenic Plants at the
EPA Environmental Research Laboratory Corvallis, Oregon
The National Research Council (NRC) is accepting applications for three award competitions in 1993 for Postdoctoral and Senior Research Associateships at the Environmental Protection Agency's Environmental Research Laboratory (ERL) in Corvallis, Oregon.

PLANT/MICROBE INTERACTIONS
Opportunity for plant/soil ecologist to identify factors that will enhance soil remediation and the establishment of desired plant communities in soils that have been impacted by chemical or oil spills, or mining, agricultural, military or industrial practices.

TRANSQENIC PLANTS
Opportunity for soil/invertebrate ecologist to evaluate ecological effects of plants engineered for insect, disease or herbicide resistance or for the production of specialty compounds or environmental cleanup, on soil microbes and invertebrates. Each NRC awardee will work in one of the above selected areas as a guest investigator at ERL, Corvallis. Annual stipend for recent Ph.D. recipients is $35,000 and is appropriately higher for senior researchers. Each award is for one year renewable to a maximum of three. Support is provided for relocation and limited professional travel, and a comprehensive health insurance program is offered.

FOR FURTHER INFORMATION CONTACT: Dr. Lidia S. Watrud USEPA Environmental Research Laboratory 200 S.W. 35th Street Corvallis, OR 97333 Tel: (503) 754-4874

EPA

Applications, submitted directly to the NRC, are accepted on a continuous basis throughout the year. Those postmarked by: January 15 will be reviewed in February; by April 15, in June; and by August 15, in October.

FOR APPLICATION MATERIALS CONTACT: The Associateship Programs (GR430/CS), National Research Council 2101 Constitution Avenue Washington, DC 20418 Fax: (202) 334-2759
**POSTDOCTORAL FELLOWSHIPS IN MOLECULAR CARDIOBIOLOGY**

**Yale University School of Medicine**

Postdoctoral fellowship positions are available in the laboratories of several investigators in the interdepartmental Molecular Cardiobiology program at Yale's Boyer Center for Molecular Medicine. Areas of interest include:

- **Jeffrey R. Bender**: Molecular mechanisms of cell adhesion, immune recognition of endothelium and endothelial cell activation.
- **Henrik G. Dohlman**: Molecular genetics of G protein signaling and desensitization.
- **Steve A. N. Goldstein**: The structure and function of ion channel proteins. The laboratory explores mechanisms of K+ channel function using site-directed mutagenesis, biochemistry and whole-cell, patch and bilayer recording methods.
- **Vincent T. Marchesi**: Angiogenesis, non-neoplastic proliferation of vascular tissue, biochemistry of mitosis.
- **Jordan S. Pober**: Cytokine regulation of endothelial gene expression; T cell activation by endothelium.
- **William C. Sessa**: Biochemistry and molecular biology of nitric oxide generation by endothelial cells.

Candidates should forward their curriculum vitae, reprints, and three letters of reference by March 15, 1993 to any of the above investigators c/o Ms. Mary Lou Perez, Yale University School of Medicine, Boyer Center for Molecular Medicine, 295 Congress Avenue, P.O. Box 9012, New Haven, CT 06520-9012.

*Yale University is an Equal Opportunity/Affirmative Action Employer*
ASSISTANT PROFESSOR, GENETICS. Department of Biochemistry, University of Alabama at Birmingham. Several tenure-track faculty positions are available in 1993. Areas of particular interest include chromosone structure and function, transcriptional regulation, RNA synthesis and control of development in lower and higher eukaryotes; however, outstanding candidates in any area of genetics are encouraged to apply. Successful candidates will teach in graduate and medical dental curricula as well as direct active research programs. Please send curriculum vitae, a brief statement of present and future research interests, selected reprints and the names/addresses of three references by January 31, 1993, to: Dr. Tim Towne, Search Committee Chairman, Department of Biochemistry, Schools of Medicine, Dentistry, and Public Health, University of Alabama at Birmingham, AL 35294. An Equal Opportunity/Affirmative Action Employer.

BIOLOGY POSITION

Animal cell biologist/cell physiologist, vertebrate or invertebrate, to teach upper division courses in an area of specialty for majors, lower division courses in cell biology, and undergraduate seminars as part of an important program of general studies. Candidates who use techniques of modern molecular biology and who are interested in investigating basic problems in cell biology/cell physiology will be given special consideration. The department maintains an active research program that involves undergraduate students. As a part of that program, the department seeks candidates who will be expected to seek personal grants and to contribute to collaborative departmental site grants. Ph.D. required: rank commensurate with training and experience. Members of the Search Committee are encouraged to submit names/addresses of candidates. The deadline for receipt of applications is March 1, 1993. Send curriculum vitae, names and addresses of three references to: Search Committee, Department of Biology, University of Mississippi, University, MS 38677-1810. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR, PHARMACOLOGY. Tenure-track faculty position (95% research, 5% instruction/service) supported by a full-time technician and seed money. Salary negotiable. Ph.D. or D.V.M./Ph.D. is required with research interests in the area of biochemistry or pharmacology. A recent doctorate or postdoctoral experience is relevant to this position. The position is available immediately. Send curriculum vitae, statement of research interests and experience, and three letters of recommendation to: Professor J. Davis, Department of Pharmacology, University of Tennessee at Martin, Martin, TN 38238. Women and minorities are encouraged to apply. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION—BIOCHEMISTRY WEST VIRGINIA STATE COLLEGE

Applications are invited from persons holding a Ph.D. degree in Biochemistry for a full-time, tenure-track position in Biochemistry at the West Virginia State College, Beckley, WV 25801. The position will be at the assistant professor level in an ACS-approved Chemistry Department of a four-year state college. A strong commitment to excellence in teaching is mandatory. The position is available Fall 1993. The West Virginia State College offers a four-year B.S. in Chemistry and a two-year A.A.S. in Chemical Technology. Responsibilities include teaching undergraduate courses in biochemistry, biochemistry laboratory, and general chemistry in a modern chemistry laboratory; advising students; and developing an undergraduate research program for chemistry majors. Salary for the Assistant Professor is $21,960.00. Send curriculum vitae, a statement of teaching and research philosophy,复印件 undergraduate and graduate transcripts, and three letters of recommendation by March 15, 1993, to: Dr. J. B. Oden, Department of Chemistry, West Virginia State College, P.O. Box 1069, Institute, WV 25912-1000. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, NEUROSCIENCE

A tenure-track position is available July 1993, Department of Neurosciences, University of California, Riverside. We are seeking outstanding applicants with strong research and teaching interests in any subfield of basic neuroscience. Priority will be given to applications received before 15 March 1993. Applicants should send curriculum vitae, copies of publications, statement of research interests, and letters of recommendation for at least three references to: Glenn I. Hatton, Chair, Department of Neurosciences, University of California, Riverside, CA 92521. Women and minorities are encouraged to apply. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF PHYSIOLOGY, tenure-track. Successful applicant is expected to teach gastroenterology to physiology and graduate students. Candidates must have Ph.D. and postdoctoral training; preference will be given to those with D.V.M./Ph.D. Send curriculum vitae and three letters of reference to: Dr. A. Freeman, Chair, Department of Animal Sciences, University of Arkansas, Little Rock, AR 72204. UT is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF PHYSIOLOGY. Tenure-track position. Applicants must have a Ph.D. in physiology or related field. Applicants should send curriculum vitae and three letters of reference to: Dr. A. Freeman, Department of Animal Sciences, University of Arkansas, Little Rock, AR 72204. UT is an Affirmative Action/Equal Opportunity Employer.
Advancement in Science Begins at Bio-Rad Laboratories

The satisfaction of working at Bio-Rad Laboratories comes from seeing your research quickly become a useful product. It's a feeling of success that we invite you to share as you join our Clinical Diagnostics team.

Our continuous growth has resulted in the following opportunities in our Anaheim facility:

- R&D Manager
- RA/QA Manager
- R&D Group Leader
- Senior Scientist
- Research Scientists
- Research Associates
- Product Transfer Chemists
- Manufacturing Chemists
- QA Auditor

Managers and Group Leaders will have advanced degrees (PhD preferred) in chemistry, biochemistry or life sciences and supervisory experience in the industrial sector. Demonstrated research emphasis in protein chemistry, immunology or clinical chemistry a plus.

Send your CV or resume to: Bio-Rad Laboratories, Attn: Paul Krueger, Dept. 524, 3726 E. Miraloma Blvd., Anaheim, CA 92806. An Equal Opportunity Employer, M/F/D/V.

BIO-RAD Bio-Rad Laboratories

January 1, 1993

THE REPLIGEN REPORT

VOLUME 13

Scientific challenge is the order of the day at Repligen. Located in Cambridge, Massachusetts, one of the nation's premier biotechnology centers, our ongoing success and accomplishments continue to strengthen our dedication to leading edge research committed to healthcare. In conjunction with recent clinical trials in cancer therapy, we have grown from 129 to 275 employees over the past 12 months and, with the completion of our new manufacturing pilot plant, we will begin 7-day operations starting in January. We have also filed our second IND resulting from our inflammation research program initiated less than 2 years ago, and recently received Notice of Allowance for our patent covering the use of purified platelet factor-4 and recombinant platelet factor-4 for heparin neutralization.

As we enter another promising year of breakthroughs and accomplishments, we seek the following individuals to join us:

DIRECTOR OF INFLAMMATION RESEARCH

This scientist manages all research and preclinical activities for our anti-inflammatory therapeutics by establishing overall project objectives, coordinating project research and development strategies, and participating in the development of anti-inflammatory leads from the integrin project. Candidates must possess 7-10 years' experience in a pharmaceutical or biotechnology company with direct responsibility for a research and development project, preferably in one of the following areas: therapeutic proteins, neutrophil biology, surface receptor structure and function, or acute inflammatory disease research.

PRINCIPAL INVESTIGATOR

We seek an individual to establish programs for comprehensive evaluation of pharmacological properties of new drug candidates and manage clinical sample analysis in support of multiple drug development programs. To qualify, applicants must possess a PhD or DVM, or an MD, plus 4-7 years' post degree research experience with a background in the application of immunoassay methodology and radioisotope use in animals. Experience with protein evaluation and regulatory compliance preferable.

RESEARCH SCIENTIST/PRINCIPAL INVESTIGATOR

In this position, you will study the structure/function relationships of surface receptors found on lymphocytes, as well as conduct analysis of gene expression and cell-based bioassays. Candidates must possess a PhD in Cellular or Molecular Biology, plus 2-5 years' post doctoral experience and expertise in genetic manipulations including cloning, mutagenesis, PCR and expression of genes and their mutant forms in eukaryotic cells.

Repligen offers competitive salaries, benefits and equity participation. Please submit or FAX a cover letter, CV and references to: Deirdre Purple, Repligen Corporation, One Kendall Square, Building 700, Cambridge, MA 02139. FAX (617) 494-1786. An Equal Opportunity Employer, M/F/D/V.
CANCER BIOLOGISTS

At Genentech, we are proud of the reputation we have built for the quality, commitment and diversity of our research efforts as well as for our business success. Our commitment to R&D starts with finding the top scientific talent in many fields of biological science, and continues with an R&D expenditure of over 50% of revenues. Our scientists publish over 200 papers per year, and the citation rate for these manuscripts match the best universities and research institutions. We now occupy a new $85 million, 275,000 square-foot research facility.

We’re seeking Cancer Biologists who have an MD and/or PhD with 3-5 years’ industrial or academic experience and training in molecular, cell or tumor biology. Experience with animal models is strongly desired. You should have outstanding scientific credentials, and the drive, creativity and vision to contribute to and support an ongoing cancer program involving oncogenes, signal transduction, metastatic processes and tumor angiogenesis for the ultimate goal of developing novel therapeutics.

Genentech offers an extensive benefits package which includes fully paid dental/medical/vision coverage, child care facilities, free health club membership and an employee stock purchase plan. To apply, please send your Curriculum Vitae to Dr. Art Levinson, Vice President of Research, Mailstop VS-1, Genentech, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We promote and actively support affirmative action and equal employment opportunity.

Genentech, Inc.

Cancer Center Director

The University of Southern California School of Medicine seeks a Director for the Kenneth Norris Jr. Cancer Center, an NCI-designated Comprehensive Cancer Center. Candidates with either basic science or clinical orientations will be considered. The Center is searching for a leader with a strong record of research achievement and administrative experience in cancer-related areas. Responsibilities of the Director include: developing program goals and directions for the teaching and research activities that take place under the auspices of the Cancer Center; working with other administrative officers of the School of Medicine and the University to ensure the integration and continuity of these activities; directing the preparation of funding applications including the institution’s Cancer Center (Core) Support Grant; and overseeing the operation of a 60 bed cancer hospital. The existing strengths of the Cancer Center include the programs in gene regulation, tumor biology, developmental therapeutics, immunobiology and therapy, cancer etiology, and cancer prevention research and education as well as strong established programs in gynecological, urological, medical and hematological oncology. A developing strength includes a program in gene therapy. The Kenneth Norris Jr. Comprehensive Cancer Center is an organized research unit of the USC School of Medicine. The Center’s headquarters is located in a freestanding building housing a 60 bed cancer hospital and 28,000 sq ft basic research laboratory space. A major expansion of this facility is under construction and will be completed in 1994, adding research laboratories, offices and support space for clinical and cancer cause and prevention faculty, and greatly enlarged outpatient clinical facilities. The Director reports directly to the Dean of the School of Medicine. Letters of application should include a curriculum vitae with a summary of relevant research, clinical, and administrative experience, and the names of at least three references. Applications will be accepted until the position is filled. Please send letters of application to Phyllis M. Rideout, Ph.D., Executive Secretary, Norris Cancer Center Director Search Committee, Kenneth Norris Jr. Comprehensive Cancer Center, P.O. Box 33800, Los Angeles, CA 90033-0800. The University of Southern California is an Affirmative/Equal Opportunity Employer. Applications from women and people from diverse racial, ethnic and cultural backgrounds are encouraged.

RESEARCH SCIENTIST
& TECHNICIAN
DNA Analysis Technology

Molecular Tool, Inc. is a biotechnology company located in Baltimore, Maryland committed to the development and commercialization of highly integrated, DNA-based systems for the analysis of complex genomes and genetic loci. Together with a key industry partner, Molecular Tool has embarked on a significant research and product development program for the near-term implementation of a large-scale DNA analysis system.

Creative and motivated chemists and biochemists are invited to apply for research scientist and technician positions. Successful applicants will be responsible for the development of new systems for solid phase immobilization, analysis, and synthesis of nucleic acids. Candidates with experience in the following areas are encouraged to apply:

- Surface Chemistry
- Nucleic Acid Chemistry
- Solid Phase Synthesis

Situated on a campus of the Johns Hopkins University School of Medicine, Molecular Tool, Inc. offers a stimulating scientific environment, competitive salaries, an incentive program and medical insurance benefits. Interested candidates should send a resume together with the names of three professional references to: Ms. Loretta Burrows, Molecular Tool, Inc., Alpha Center, Hopkins Bayview Research Campus, 5210 Eastern Avenue, Baltimore, MD 21224.

MOLECULAR TOOL, INC.
KUWAIT UNIVERSITY
Faculty of Science
DEPARTMENT OF BOTANY & MICROBIOLOGY

Applications are invited for the post of Associate Professor or Assistant Professor
available in September 1993, in the following disciplines:

1. Plant Physiology
   With particular experience in plant growth and development
   (Hormones and Growth Regulation).

2. Applied Microbiology
   With experience in biotechnological and environmental aspects.

3. Ecophysiology
   Ecophysiology of higher plants in extreme environments (under
   drought, heat or salinity stress).

4. Molecular Immunology

5. Aquatic Microbiology
   Emphasis on marine microbial ecophysiology.

Attractive salary (tax free), with added benefits (furnished residence, air tickets for the
family up to three children, mid-term and summer holidays).

Applications and conditions of service are available from the following address:

Kuwait University Office
3500 International Drive, N.W.
Washington, D.C. 20008
Tel. No. (202) 363-8055

Completed applications together with non-returnable academic documents should be
submitted to:

The Chairman
Department of Botany & Microbiology
Faculty of Science
Kuwait University
PO Box 5949 Safat
13040 Safat
KUWAIT
Fax No.: (965) 464-7854

Deserves a Closer Look

Biological researchers the world over rely on Molecular
Dynamics to facilitate breakthrough research. We combine
bio-imaging technologies and support software in imaginative,
competitive new ways that help scientists quickly analyze
and quantify the molecular components of life.

Our rapid growth, record profits and best selling status is
testimony to the genius and resolve of our researchers. They
create in an environment of entrepreneurial enthusiasm that
lends new perspective to their careers. Experience it for
yourself in one of these rewarding positions:

Applications Manager

Molecular Dynamics seeks a senior scientific marketing
manager to develop an applications group to support gel
scanning instrumentation and reagent systems. The applicant
should have a Ph.D. in Molecular Biology or related field
and several years experience directing research, preferably
in an instrumentation or reagent company. Knowledge of
fluorescence and radioactive detection techniques essential.
Sales or marketing experience a plus. Responsibilities
will include:

- Developing new applications
- Analysis software design
- Writing marketing support materials
- Customer support
- Customer training programs

Product Marketing Manager

You will develop and manage marketing programs for one
of our leading products. Your 3+ years' minimum related
experience must include biotechnology/laboratory equip-
ment marketing, a BS/MS technical degree and some direct-
ly related sales experience. In addition, you should have
proven team management as well as excellent written and
verbal communication skills.

We provide the opportunity for you to make a difference.
You provide the drive and skills to continue our progress.
We offer a complete compensation/benefits package,
including sabbaticals, and an environment that nurtures
innovation and excellence. Please send a letter of introduc-
tion and your resume to: John Gordon, V.P. Human
Resources, Molecular Dynamics, 880 E. Arques Avenue,
Sunnyvale, CA 94086. We are an equal opportunity
employer.

University of Minnesota

Director: Institute for Lake Superior Research

The Institute for Lake Superior Research is a university-wide unit
established to promote and facilitate basic research on large lakes. Its
mission is to assist in maintaining the ecological integrity of Lake
Superior and its watershed by providing a knowledge base necessary to
guide policy decisions. Lake Superior provides a natural laboratory
through which research initiatives might also be developed.

The Director will be responsible for building the program at the
University of Minnesota, developing a critical mass and providing
leadership in a university-wide consortium of cooperating laboratories.
The Institute should complement other programs on the Great Lakes
and initiate or participate in international projects in the aquatic
sciences. This position represents a consolidated focus of research in
limnology.

Requirements: The Director should have a Ph.D. or equivalent
degree; a demonstrated international reputation, in physical, chemical
or biological research in large lakes or oceans; interests in problems of
global environmental relevance; and close ties with the ocean commu-
nity. The Director should have expertise in management, and experi-
ence in budgeting. The position is offered at the professor level
concomitant with academic, educational, and service obligations, with
tenure in an appropriate department. Salary and benefits are commen-
surate with experience and other programs at the University of Minne-
sota.

Please send letter of application with curriculum vitae, and the names
of four referees, postmarked by Saturday, March 13, 1993, to either
Graham A. Tobin or Kerry Kelts, Co-Chairpersons of the Search
Committee, c/o Institute for Lake Superior Research, 135 Medical
Bldg., University of Minnesota-Duluth, Duluth, MN 55812, USA..
Fax: (218) 726-6254; Tel: (218) 726-7294.

The University of Minnesota is an equal opportunity educator and employer.
STAFF SCIENTIST, for manufacturer in the Cincinnati area. Develop and implement a research program to identify new nonsteroidal anti-inflammatory drugs (NSAIDs) to treat rheumatoid arthritis and osteoarthritis that displays significant advantages over current antiarthritic drugs. Based upon this program identify new approaches to intervene therapeutically in arthritis. Develop in vitro assays to evaluate the effects of new chemicals on the biosynthesis of inflammatory mediators proposed to play a role in the pathogenesis of arthritis, such as arachidonic acid metabolism and cytokine production. Specifically, using cell culture techniques develop in vitro assays for arachidonic acid metabolism and cytokine production. Additionally, using cell culture techniques develop in vitro assays for interleukin-1, interleukin-6, tumor necrosis factor, etc. Develop in vivo biological assays to measure the effects of oral doses of new chemicals on arachidonic acid metabolism and cytokine production. Additionally, use in vivo biological assays to evaluate the effects of new chemicals on the biosynthesis of inflammatory mediators and, use of chromatographic and radioimmunoassay techniques.

FORSTER 7TH WEEK, 8:00 TO 4:30. Salary: $55,000 PER YEAR. Must have proof of legal authority to work indefinitely in the United States. Send résumé in duplicate (no calls) to: L. Ellison, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

STAFF SCIENTIST—Cereal Chemist, for manufacturer in the Cincinnati area. Develop understanding of ingredient functionality and interactions during cake baking. Evaluate current baking mix products for performance characteristics. Develop analytical methods to measure changes in baking ingredients during baking and characteristics of finished cakes. Develop scientific mechanisms for baking mix product performance and design and conduct research to test theories. Develop, design and test mechanisms and theories for improvements of product performance. Develop understanding of how the flavor system reacts with the ingredients and how interactions affect flavor retention in low fat cake systems. Develop a feasible flavor system for low fat cakes mixes and the process for incorporating the flavor system into mix. Requires BS in Food Science or Food Science required plus one year of experience in job offered or one year of experience as a Pre or Postdoctoral Researcher in flour rheology, and three years experience in flour analysis. Applicants would include a curriculum vitae, statements of teaching experience and research interests, reprints of up to three selected publications, and names and addresses of three or four references. Send complete application to: Dr. Ross Prentice, Director, Division of Public Health Sciences, Fred Hutchinson Cancer Research Center, 1124 12th Avenue, Seattle, WA 98104.

BIOMEDICAL SCIENCES DEPARTMENT OF PHYSIOLOGY

The University of California (UC), San Francisco seeks applications for a tenure-track position of ASSISTANT OR ASSOCIATE PROFESSOR in the Department of Physiology, M.D. or Ph.D. Preference will be given to applicants who have demonstrated the ability to interact with faculty and students in our nationally recognized programs such as those concerning arthropod-borne infectious diseases, retroviruses, mycobacteria, and with the Diagnostic Laboratory of the Veterinary Teaching Hospital. Applicants should send curriculum vitae, a statement of research interests, a list of at least three references to: Dr. Jonathan Carlson, Search Committee Chairman, Department of Microbiology, Colorado State University, Fort Collins, CO 80525, Telephone: 303-491-7840. Closing date for this application will be February 28, 1993. Colorado State University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR, biolo-
gy education; tenure-track, earned doctorate in biology education or equivalent in biology content field required. Position #20201, Biology Educator: Applicants with expertise in vertebrate evolution, comparative physiology and anatomy/physiology are urged to apply. Applicants are expected to demonstrate quality teaching in pedagogy, general biology, and content areas of expertise and the ability to direct pedagogical research. Established research record required. Teaching and research is at both graduate and undergraduate levels. Submit (using position number and title: by 1 February 1993) letter of application, curriculum vitae, 3 references, transcripts, evidence of U.S. citizenship, and statements of teaching philosophy and research interests and plans to: Dr. April L. Gardner, Chair, Search & Screen Committee, Department of Biological Sciences, University of Northern Colorado, Greeley, CO 80639; Telephone: 303-351-2921, FAX: 303-351-1269. Minorities and women encouraged to apply. The University is an Equal Opportunity/Affirmative Action Employer. Position contingent upon adequate funding from the state legislature and final approval by the Board of Trustees.

POSTDOCTORAL RESEARCH POSITION available immediately to carry out studies on regulation of the transcription of the murine interleukin-2 gene in lipopolysaccharide metabolism and atherosclerosis. Send curriculum vitae to: Dr. Alan Tall, Department of Medicine, Columbia University College of Physicians and Surgeons, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.
Call for Papers

INTERNATIONAL CONGRESS ON THE HEALTH EFFECTS OF HAZARDOUS WASTE

The Agency for Toxic Substances and Disease Registry (ATSDR), Public Health Service, U.S. Department of Health and Human Services, announces the first International Congress on the Health Effects of Hazardous Waste, to be held May 3–6, 1993, at the Marriott Marquis Hotel in Atlanta, Georgia. The purpose of the Congress is to promote the exchange of findings and recommendations about human exposure to and health effects resulting from hazardous waste.

Abstracts are solicited for the following content areas: populations at risk, exposure assessment (including environmental measurements, modeling, and use of biologic markers), health effects resulting from exposure to toxic substances (including toxicologic studies, health effects studies, diagnostic strategies, and risk analysis), risk communication, technology and information transfer, health implications of emerging technologies, gaps in data, and research needs.

Abstracts should be received by ATSDR by mail or Fax by January 28, 1993.

Registration fee is $100 by April 5, 1993, or $125 at the Congress ($50 for full-time students).

Submit abstracts to:
John S. Andrews, Jr., M.D., M.P.H.
Associate Administrator for Science
Agency for Toxic Substances and Disease Registry
1600 Clifton Road, NE, Mallstop E-28
Atlanta, GA 30333
Telephone: (404) 639-0708,
Fax (404) 639-0586

For registration material contact:
Howard Frumkin, M.D., M.P.H.
Director, Division of Environmental and Occupational Health
Emory University School of Public Health
1599 Clifton Road, NE
Atlanta, GA 30329
Telephone: (404) 727-3697,
Fax: (404) 727-8744

NATIONAL ACADEMY OF SCIENCES
SUMMER PROGRAMS FOR YOUNG INVESTIGATORS
1993-94

COLLABORATION WITH
CENTRAL/EASTERN EUROPE AND EURASIA

DEADLINE: FEBRUARY 12, 1993

The NAS will sponsor three Young Investigator Programs (YIP) for the summers of 1993-94:

1) Ecological Concerns in the Development of the Arctic and Far Northern Regions (with Russia)
2) Nuclear Accidents and Radioactive Contamination (with Ukraine and Belarus)
3) Health Impacts of Environmental Degradation (with Czech Republic and Slovak Republic)

Each program will consist of two, three-week workshops held in consecutive years. The American teams are selected with an eye to interdisciplinary representation as is to foster an integrated approach to the problems under study.

Only those individuals engaged in teaching and/or research careers or those planning such careers are eligible to apply. Individuals entering this competition must have earned the Ph.D. degree, or achieved equivalent accomplishments, since January 1, 1986, and not later than January 1, 1993.

For application details contact:
Office for Central Europe and Eurasia (R02014)
2101 Constitution Ave., NW
Washington, DC 20418
ATTN: YIP 93-94
Tel: 202/334-2644; Fax: 202/334-2614

FACULTY POSITIONS
IN MOLECULAR ONCOLOGY

St. Jude Children’s Research Hospital
Seeks qualified molecular biologists for its expanding biomedical research program.

The newly established Department of Experimental Oncology has immediate openings for several faculty positions. M.D.’s and Ph.D.’s whose research focuses on the genes and proteins involved in cancer induction and progression are encouraged to apply. Although preference will be given to physician-scientists who have recently completed postdoctoral training and have strong interests in molecular medicine, applicants with extensive experience in cancer research will be considered for positions at the associate and full-member levels. Successful applicants will work in a 240,000 square foot research center, completed in 1991, which houses all of the institute’s scientific programs. Opportunities exist for interaction with specialists in Virology/Molecular Biology, Biochemistry, Immunology, Tumor Cell Biology, Pharmacology, Hematology/Oncology, and Infectious Diseases.

St. Jude provides generous start-up funds, nationally competitive salaries and an excellent benefits package.

A strong institutional commitment to the basic science faculty ensures stability in program development and continuity of research activities.

Applicants should submit a C.V., a letter summarizing their research accomplishments and goals, and the names of three references to:

Dr. A. Thomas Look, Chairman
Department of Experimental Oncology
St. Jude Children’s Research Hospital
332 North Lauderdale
Memphis, TN 38105 U.S.A.

AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

Deutsches Institut für Ernährungsforschung
Potsdam-Rehbrücke (DIE)

Associate Research
Group Leader

The Deutsches Institut für Ernährungsforschung Potsdam-Rehbrücke - a foundation established January 1st, 1992, devoted to research aiming at prevention of nutrition-related diseases - seeks an investigator with strong research background to lead within the department of nutrition physiology the group on Protein Metabolism.

The salary will be BAT 1. The appointment will be for 5 years; a continuation after this time span is feasible.

The candidate is expected to establish a strong research program on protein and amino acid metabolism, including its implications for nutrition and clinical medicine. The application of stable isotopes will be indispensable.

Interested biochemists, physicians, biologists or nutritionists should send within 4 weeks after appearance of this advertisement curriculum vitae and list of publications to:

Prof. Dr. C.A. Barth
Wissenschaftlicher Direktor
Deutsches Institut für Ernährungsforschung
Arthur-Scheunert-Allee 114/116
D-1505 Bergkamen-Rehbrücke
Germany
POSITIONS OPEN

ASSISTANT PROFESSOR, Tenure-track—beginning Fall 1993. The Department of Biological Sciences at Mankato State University (MSU) is seeking a microbiologist with demonstrated expertise in molecular biology and teaching experience in general microbiology. The successful candidate will teach general microbiology and advanced courses from among the following areas: medical microbiology, environmental microbiology, and/or recombinant DNA technology. Applications at all levels, including those at the level of instructor, are encouraged. For further information, contact: Personel and/or Clinical Experience Desired.

The Biology Department of La Salle University, a Roman Catholic, four-year, liberal arts university under the auspices of the Brothers of the Christian Schools, invites applications for a tenured, ASSISTANT PROFESSOR position for September 1993. The successful candidate must possess the Ph.D. and a demonstrated strength in undergraduate teaching. Demonstration of ability to teach at both upper division and introductory biology levels is required. Applicants must be able to interact effectively with students, faculty, and the public. Applications from minority women are encouraged. Send curriculum vitae, letter of recommendation to: Search Committee, Biology Department, La Salle University, 1900 West Olney Avenue, Philadelphia, PA 19141–1199. Closing date: February 5, 1993 or until a suitable candidate is identified.

ASSOCIATE PROFESSOR, Tenure-track—beginning Fall 1993. The Department of Biological Sciences at the University of Arizona, Tucson, AZ 85721, invites applications for an Associate Professor position. The University of Arizona is an Equal Opportunity/Affirmative Action Employer—applications from females and minorities are encouraged.

POSTDOCTORAL POSITION available using recombinant DNA techniques to study cloned Na+-depen- dent and Na+-independent transport systems in a nematode, Caenorhabditis elegans. Position will be available January 1993. Preference will be given to candidates with experience in either transport physiology (of carriers or channels), molecular biology (DNA/RNA restriction and/or sequencing), or both. Applications will be accepted until position is filled. Send curriculum vitae, including names and addresses of three referees to: Richard T. Boughman, Department of Biological Sciences, University of Iowa, Iowa City, IA 52242-1404.

POSTDOCTORAL POSITION available using recombinant DNA techniques to study cloned Na+-depen- dent and Na+-independent transport systems in a nematode, Caenorhabditis elegans. Position will be available January 1993. Preference will be given to candidates with experience in either transport physiology (of carriers or channels), molecular biology (DNA/RNA restriction and/or sequencing), or both. Applications will be accepted until position is filled. Send curriculum vitae, including names and addresses of three referees to: Richard T. Boughman, Department of Biological Sciences, University of Iowa, Iowa City, IA 52242-1404.

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WORLD AIDS FOUNDATION

The World AIDS Foundation (WAF) announces its intent to support research and education relating to AIDS in the developing world. The goal of the WAF is to facilitate information exchange and to assist developing countries to respond to the AIDS pandemic.

The Foundation is particularly interested in projects that are catalytic, and once in place could have a multiplicative effect. The WAF also is particularly interested in supporting applications that originate from developing countries and which emphasize collaboration between and among scientists from developed and developing countries. The main area of interest of the WAF is education for health professionals in developing countries especially in-country training. This includes highly focused workshops which enhance the scientific process and transfer knowledge needed in the effort against HIV infection and AIDS.

The limit of any single funding request to the Foundation is $200,000.

Application Procedures:

Concept letter and applications may be prepared in either English or French. Applicants should submit concept letters for initial consideration. Following review of concept letters, applicants may be invited to submit complete proposals. The annual deadline for receipt of concept letters is February 1.

Concept letters and inquiries concerning the programs of the World AIDS Foundation should be directed by mail or by fax to either:

World AIDS Foundation
Assistant Secretary for Health
c/o Director, Fogarty International Center
National Institutes of Health
Building 31, Room B2C02
9000 Rockville Pike
Bethesda, Maryland 20892 U.S.A.
Fax: (301) 402-2056

or

Fondation Mondiale SIDA
c/o Directeur de l’Institut Pasteur
28 rue du Docteur Roux
75724 Paris, Cedex 15 FRANCE
Fax: 0033-1-45688938

THE FIFTH PRINCETON LIPOSOME CONFERENCE
THE BASICS AND THE BREAKTHROUGHS
May 24-25, 1993
Scanticon Conference Center
Princeton, New Jersey

Co-Chairmen: Marc J. Ostro, Ph.D. (The Liposome Co., Inc.)
Donald Kellaway, M.D. (Columbia)
Gerald Weissmann, M.D. (New York University)
Pietro R. Cullis, Ph.D. (Univ. of British Columbia)

Sponsor: The Liposome Company, Inc.

The Fifth Princeton Liposome Conference, "The Basics and the Breakthroughs," will be a major international gathering of scientists active in the lipid and liposome fields. The conference will serve as a comprehensive forum for discussion of developments in these areas.

Speakers include: Gerrit L. Scherphof, Ph.D. (University of Groningen), Donald Armstrong, M.D. (Sloan-Kettering), Marcel B. Bailey, Ph.D. (B. C. Cancer Agency), Stephen L. Seleman, M.D. (The Liposome Co.), Prof. L. W. Kellaway (University of Wales), Sam Castmore, V.M.D. (Ideal Farms Equine Clinic), Francis Szoka, Jr., Ph.D. (Univ. of California, SF), A.H. Goldstone, M.D. (Univ. College Hospital, London), A. Kilbanov, Ph.D. (University of Pittsburgh), Gabriel Lopez-Berestien, M.D. (M.D. Anderson Cancer Ctr.), R. Jain, M.D. (Harvard Medical School), John Repine, M.D. (Webb-Waring Lung Institute), Cary A. Presant, M.D. (University of Southern Calif), L.J. Fidler, M.D. (University of Texas Cancer Center), Gerald Batist, M.D. (McGill University), Leaf Huang, Ph.D. (University of Pittsburgh), Siniti Kim, Ph.D. (DepoTech Corporation), Andrew S. Janoff, Ph.D. (The Liposome Co.), Heiner Frost, M.D. (CIBA-GEIGY), and Pietro R. Cullis, Ph.D. (Univ. of British Columbia)

DEAN SEARCH
COLLEGE OF SCIENCES AND MATHEMATICS
AUBURN UNIVERSITY

The Auburn University College of Sciences and Mathematics invites applications and nominations for the position of Dean. Auburn University is the 1862 land-grant institution located in east central Alabama. It enrolls approximately 21,500 students on the Auburn campus. The College of Sciences and Mathematics consists of the departments of Botany and Microbiology; Chemistry; Discrete and Statistical Sciences; Geology; Mathematics; Physics; and Zoology and Wildlife Sciences.

The Dean is the chief executive officer of the college and reports directly to the Provost. General responsibilities include:

1) provide creative leadership for teaching, research, and extension programs;
2) promote the academic unit, through activities including fundraising, with alumni and external groups;
3) effectively represent the position of the College faculty to the central administration;
4) continue to lead the College toward national prominence.

Qualifications include: earned doctorate in field appropriate for full professor and tenure in one of the departments in the College; excellence in research and teaching; strong administrative and leadership capability, including effective personnel management and communication skills; commitment to Affirmative Action/Equal Employment Opportunity.

Twelve-month salary is competitive and commensurate with qualifications. Employment date is negotiable, preferably beginning by 7/1/93.

A review of applications and materials will begin on March 1, 1993 and will continue until the position is filled. Applicants should submit a vita and the names of five references to:

Dr. June Henton, Chair
Search Committee
210 Spidle Hall
Auburn University, AL 36849

Auburn University is an Affirmative Action, Equal Opportunity Employer. Women and minorities are encouraged to apply.

Acea Pharmaceuticals, Inc.

Acea Pharmaceuticals, Inc. is a neurobiotechnology company located in Irvine, California. It currently has the following positions available.

STROKE/NEURODEGENERATION

We are seeking a Ph.D. level scientist for the Pharmacology Group. The successful candidate should have at least 2 years of postdoctoral experience in assessing potential neuroprotective agents in animal models of brain ischemia.

PHARMACOKINETICS

Scientist to develop a pharmacokinetics/drug metabolism program. The successful candidate will design, conduct, analyze and report pharmacokinetics and drug metabolism studies essential to the development and registration of new drug entities. A Ph.D. or equivalent with at least 2 years of postdoctoral training is required. Research Associate to participate in pharmacokinetics and drug metabolism studies. B.S./M.S. with experience in pharmacokinetics required.

Send a cover letter and resume including the names and addresses of references to:

Human Resources
Acea Pharmaceuticals, Inc.
1003 Health Sciences Road West
Irvine, CA 92715

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Seattle, WA

ZYMOGENETICS

COMPUTATIONAL CHEMIST

ZYMOGENETICS, a Seattle based company making important strides in the development and clinical evaluation of therapeutic products aimed at tissue repair, coagulation disorders, and diabetes is currently seeking a Computational Chemist to conduct research in our structure-based drug discovery program.

The successful candidate will possess a PhD in Biochemistry, Computational chemistry or Pharmacology and 3+ years related experience in molecular modeling, computational chemistry, and pharmacophore design. Must have ability to interact and work effectively with both computer scientists and bench chemists.

ZYMOGENETICS offers an exciting environment characterized of a small research and development company, along with the scope and stability of a large pharmaceutical corporation as a subsidiary of NOVO NORDISK, the world’s largest manufacturer of insulin. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package.

Please apply by sending your CV to:

ZYMOGENETICS, Inc.
Attn.: Human Resources, #12N193
4225 Roosevelt Way NE
Seattle, WA 98105

ZYMOGENETICS is an Equal Opportunity Employer
Chief, Endocrinology Service
Memorial Sloan-Kettering Cancer Center

Memorial Sloan-Kettering Cancer Center is seeking a Chief of its Endocrinology Service in the Division of General Medicine, Department of Medicine. We encourage applications from physicians who can provide leadership for the clinical service, clinical investigation and the training of fellows. This individual will be in a unique position to collaborate with the neighboring institutions of Cornell University Medical Center and Rockefeller University. Board certification in Internal Medicine and Endocrinology required.

Please send curriculum vitae and bibliography to:
John Mendelsohn, M.D.
Chairman, Search Committee
Memorial Sloan-Kettering Cancer Center
1275 York Avenue
New York, New York 10021
An Equal Opportunity Employer

STANFORD UNIVERSITY
School of Medicine
Division of Cardiovascular Medicine

POSTDOCTORAL RESEARCH FELLOWSHIPS

The Division of Cardiovascular Medicine has several postdoctoral fellowships available and 3 Training Grants to support postdoctoral research. Participating preceptors are from different Departments in the School of Medicine.

A Postdoctoral Fellowship Position is available in the laboratory of Richard Lawn, Ph.D. to conduct research on lipoprotein Lp(a) and genes involved in cardiovascular disease. Preceptor: Richard Lawn, Ph.D.

American Heart Association/Bugher Foundation Center for Molecular Biology in the Cardiovascular System, offers fellowships to highly qualified M.D. and M.D./Ph.D. graduates to train in leading molecular and cellular biology laboratories on cardiovascular related projects (only US citizens and Permanent Residents are eligible). Principal Investigator: Victor J. Dzau, M.D.

NIH Training Grant in Vascular Biology and Medicine. Fellowships available to M.D. or Ph.D. applicants to train with leading scientists in several areas of basic research, including paracrine control of vasomotor tone, autocrine-paracrine regulation of vascular growth, response to injury: restenosis, cell-cell interaction: adhesion molecule, lipoprotein and glucose metabolism, genetics of vascular disease and gene transfer and therapy (only US citizens and Permanent Residents are eligible). Principal Investigator: Victor J. Dzau, M.D.

NIH Training Grant in Cardiac and Cellular Electrophysiology. Fellowships available to M.D. or Ph.D. applicants for laboratory research training in cellular electrophysiology (only US citizens and Permanent Residents are eligible). Principal Investigator: William Clusin, M.D., Ph.D.

Interested applicants should submit a c.v. and a letter outlining background and area of research interest. Three letters of reference should be submitted directly to the Preceptor or Principal Investigator at the following address:

Division of Cardiovascular Medicine
Falk Cardiovascular Research Center
Stanford University School of Medicine
300 Pasteur Drive
Stanford, California 94305-5246

The Division of Cardiovascular Medicine is committed to increasing representation of women and minority groups, and particularly encourages applications from such candidates.

LUDWIG INSTITUTE INSTITUTE SÃO PAULO RESEARCH Ludwig in Cancer Branch 10th CANCER ANNIVERSARY

BASIC AND APPLIED CANCER RESEARCH INTERNATIONAL SYMPOSIUM ON HUMAN PAPILLOMAVIRUS
April 1 - 3, 1993 April 4 - 6, 1993
São Paulo - Brazil

Cancer Heritage and Susceptibility; Transformation and Signaling Pathway; Tumor Immunology and Metastases; Glycobiology of the Transformed Phenotype; Etiology, Diagnosis and Epidemiology; Transformation by Human Papillomavirus; HPV and Cellular Proteins Interactions; Epidemiology of HPV Infections; Humoral and Cellular Immune Responses to HPV

MEETING ANNOUNCEMENT

Registration and Abstract Deadline
March 1st, 1993
PHYSIOLOGIST: The Biology Department of Birmingham-Southern College is accepting applications for a non-tenure track position at the ASSISTANT PROFESSOR level. Ph.D. required. Duties include teaching introductory organismic biology, physiology, nutrition, and an advanced course in an area of expertise. Commitment to undergraduate research is desirable. Send curriculum vitae, statement of teaching/research interests, transcripts, and three letters of recommendation to: Dr. Jeannette Runquist, BSC A-22, Birmingham, AL 35254. Closing date: January 31, 1993. Equal Opportunity Employer.

HANOVER COLLEGE DEPARTMENT OF EDUCATION
ASSOCIATE PROFESSOR (or PROFESSOR) and CHAIR, Department of Education, offering primary and secondary certification programs and in the midst of fundamentally rethinking teacher preparation. Hanover College seeks a person who meets one of the following three descriptions: (a) expertise and doctorate in a field of science education and substantial teaching experience on the college level; (b) expertise and doctorate in mathematics education and substantial teaching experience on the college level; and (c) master's degree or doctorate in English language/literature or a field of social studies PLUS a master's degree or doctorate in education (a person with a master's degree in mathematics must have a doctorate in the other) and substantial teaching experience on the college level. Experience in teaching in primary and/or secondary school settings is desirable. Please send letter of application, curriculum vitae, examples of scholarly work, and at least three letters of recommendation to: Christine Wilcox, Secretary to the Education Search Committee, Hanover College, Office Box 108, Hanover, IN 47243. Equal Opportunity/Affirmative Action Employer.

PROFESSOR/CURATOR OF PARASITOLOGY for a joint position in the University of Nebraska State Museum (academic unit) and the School of Biological Sciences, University of Nebraska–Lincoln. The successful candidate will hold a Ph.D. and have an established research record of international stature in the field of modern systematic parasitology. Responsibilities for the Museum will include intellectual and managerial leadership for the Division of Parasitology which includes the internationally important collections of the Harold W. Manter Laboratory, writing of grants to support research programs and collections, establishment of a research program in modern systematic parasitology which is at least in part collection based, and participation in the Museum's public programs. Responsibilities in the School include teaching and research courses in graduate program and instruction of an undergraduate level course in the area of zoology and a graduate level course in one of the research interests to be offered in alternate years. The Search Committee will begin reviewing files on February 5, 1993, and continue until a suitable candidate is found. Send application, résumé, and three letters of reference to: Chair, Parasitology Search Committee, W436 Nebraska Hall, University of Nebraska–Lincoln, Lincoln, NE 68588-0514. For additional information call (402) 472-2614. The University of Nebraska–Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to the needs of dual career couples. We assure reasonable accommodation under the Americans with Disabilities Act; contact Christine Horn at (402) 472-9522.

ASSOCIATE DEAN FOR BASIC SCIENCES
Loma Linda University School of Medicine is searching for an Associate Dean for Basic Sciences. We are seeking a person with an M.D. or Ph.D. degree who has extensive extramurally funded research experience. The applicant should be familiar with the field of basic sciences, with an understanding of how the NIH, foundations, and other groups fund research. The candidate must have the ability to stimulate collaborative research within basic science and clinical departments. Responsibilities include the promotion and maintenance of high research productivity, recruitment of outstanding basic scientists and program managers, and the development of effective relationships among scientists, clinical investigators, and funders. Interested and qualified individuals should call (909) 824-4481 for more information or send curriculum vitae to: A. Douglas Will, M.D., Dean, Loma Linda University School of Medicine, Loma Linda, CA 92350. Loma Linda University School of Medicine is an equal opportunity/affirmative action employer.

SCIENCE welcomes placement of line classified ads by FAX. Please include name and telephone number for our contact. When placing, be certain to address to:

FAX NUMBER: 202-682-0816

DEAN COLLEGE OF MEDICINE AND SCIENCES UNIVERSITY OF NEW MEXICO
Applications and nominations are invited by January 29, 1993. Contact: Tom Dodson, College of Fine Arts, University of New Mexico, Albuquerque, NM 87131. Tel/Fax: 505-277-2111, FAX: 505-277-0708.

DIRECTOR, Bone Marrow Transplantation Program. Tulane University School of Medicine and Tulane Cancer Center are seeking applicants at the Associate Professor level to lead the research and clinical program in Bone Marrow Transplantation. Candidates are expected to have an established, funded research program in bone marrow transplantation biology and be capable of developing and managing the research and clinical aspects of the program with the Sections of Pediatric and Medical Hematology/Oncology. Candidates must be Board Certified in either Pediatric or Medicine and have at least three years of experience in a bone marrow transplant unit accredited by the National Marrow Donor Program. An attractive package of salary and development resources is available. Research space in the new Cancer Center will be ready for occupancy in June of 1993. Interested applicants should send curriculum vitae and names of three references to: James J. Corrigan, Jr., M.D., Vice Dean, Tulane School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112-2699. Applications will be accepted until position filled. Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST
The Department of Otolaryngology and the Cancer Center are seeking a molecular biologist with solid productive experience in Head and Neck Cancer/Molecular Biology Research. Applicants will develop their research programs and establish grants. Salary and Academic Rank are dependent on the candidate's background. Please forward curriculum vitae to: Nabil Fuleihan, M.D. Associate Professor and Chairman Department of Otolaryngology Boston University School of Medicine 80 East Concord Street Boston, MA 02118

TECHNICAL STAFF (RESEARCH CHEMIST), for manufacturer in the Cincinnati area. Conduct research on fiber-optic and drug delivery systems. Experience in fiber optics, drug and cosmetic product initiatives. Explore the methods for in vitro and in situ analysis using fiber-optic probes and injectable therapy. Must be capable of evaluating the efficacy of new ingredients by utilizing a variety of spectroscopic (UV-Vis, fluorescence, atomic spectroscopy and image analysis) and chromatographic techniques. Improve analytical sensitivity and develop trace analysis methods to assess the skin penetration and deposition of active ingredients. Provide analytical support for implementing on-line process monitoring and solving quality assurance problems. Ph.D. in Analytical Chemistry required plus one year of experience in job offered or one year of experience as a Pre- or postdoctoral researcher in the design of fiber-optic chemical sensors for the analysis of organic and inorganic compounds. One year of experience must involve the utilization of NIR (Near Infrared), chemometrics and/or characterization of polymers, the use of principal component analysis techniques for data analysis, applications of atomic spectroscopy methods, chromatography and use of charge-coupled devices (CCD) for image analysis and ultraviolet and visible spectral studies.

Science welcomes placement of line classified ads by FAX. Please indicate name and telephone number for contact. When placing be certain to address to:

FAX NUMBER: 202-682-0816

RESEARCH FACULTY POSITIONS BIOLOGICAL PSYCHIATRY
The Department of Psychiatry and Human Behavior at the University of Mississippi Medical Center invites applications to fill several tenure-track research positions for its newly established laboratories. Candidates should hold a Ph.D., M.D. or equivalent, with 2 years of postdoctoral experience in one or more of the following areas: molecular biology, receptor binding, receptor cloning, brain imaging, molecular genetics, neuropsychopharmacology, microanalysis. Prefer candidates with biogenic amines, neuropeptides and psychotropic drugs is highly desirable. Candidates should have demonstrated ability to obtain research funding, and be capable of developing and managing the research and clinical aspects of the program with the Sections of Pediatric and Medical Hematology/Oncology. Candidates must be Board Certified in either Pediatric or Medicine and have at least three years of experience in a bone marrow transplant unit accredited by the National Marrow Donor Program. An attractive package of salary and development resources is available. Research space in the new Cancer Center will be ready for occupancy in June of 1993. Interested applicants should send curriculum vitae and names of three references to: James J. Corrigan, Jr., M.D., Vice Dean, Tulane School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112-2699. Applications will be accepted until position filled. Affirmative Action/Equal Opportunity Employer.

MCNIKER COLLEGE OF SCIENCES
The College of Sciences will include a new Department of Molecular Biology & Biochemistry beginning in Fall 1993. The Department will have 4-faculty positions for research mentorship of undergraduates and graduate students. The College is seeking applications for the new faculty positions. Applicants should have a Ph.D. in molecular biology or related fields and a strong commitment to excellence in research and teaching. The College of Sciences currently has 20 faculty members in sciences and mathematics.

FACULTY, CLINICAL HEMATOLOGIST AND IMMUNOHEMATOLOGIST
DIAMONDSTONE LABORATORY
Michigan State University (MSU) invites applications for two tenure-track, academic year, faculty positions in the Medical Technology Program. The successful candidates must have a Ph.D., nationally recognized certification in the appropriate area, clinical experience and demonstrated evidence of the ability to establish active research programs. A strong commitment to teaching at both the undergraduate and graduate level is expected. The immunohematologist/immunogeneticist must be eligible for certification as a Histocompatibility Laboratory Director; preference will be given to candidates with experience in tissue typing immunology, molecular definition of major histocompatibility complex and individual identification using various methods. Review of applications will begin March 1, 1993. Send curriculum vitae and names of four references to: Dr. Douglas W. Entry, Medical Technology Program, E-37 McDonel Hall, East Lansing, MI 48824, MSU is an Equal Opportunity/Affirmative Action Employer and women and minority applicants are encouraged to apply.

ANATOMY AND PHYSIOLOGY POSITION.
The Ashland University College of Allied Health/Biology/Toxicology Program in the Department of Allied Health/Toxicology seeks to fill a TENURE-TRACK FACULTY POSITION. Teaching responsibilities include courses in anatomy, physiology, embryology, histology and a non-clinical course. Preference is given to candidates with experience in the field of anatomy. Applicants should submit curriculum vitae, copies of transcripts, statement of teaching philosophy and research interests, and three letters of reference by February 15, 1993 to: Dr. Duncan R. Jameson, Dean, School of Sciences, Ashland University, Ashland, OH 44805. Affirmative Action/Equal Opportunity Employer.

MOLECULAR-CELLULAR PHARMACOLOGY, TENURE-TRACK POSITIONS at the University of Texas Health Science Center at Houston for outstanding individuals studying molecular mechanisms underlying cell proliferation, nervous transmitters, growth factors, toxic substances, etc. Primary responsibility will be the conduct of independently research, teaching and graduate teaching. Applicants are expected to compete for grant funding in the field. In the Texas Medical Center, an exciting environment that includes six schools of the University of Texas System, Baylor College of Medicine, and the M. D. Anderson Cancer Center. Send applications (including curriculum vitae, research plans, and names, addresses, and telephone numbers of 4 references) to: Dr. Victoria Knutson, Professor/Program Director, Department of Texas Medical School at Houston, P.O. Box 20708, Houston, TX 77225, by February 28, 1993. The University of Texas is an Equal Opportunity/Affirmative Action Employer. Women and Minorities are encouraged to apply.
Alcohol Metabolism Fellowship.

The Unit of Pharmacokinetic Studies, Laboratory of Clinical Studies, invites qualified individuals to apply for a postdoctoral fellowship to study the effects of ethanol withdrawal on drug-metabolizing enzymes. Basic studies of enzyme activity and clinical studies involving altered pharmacokinetics of therapeutic agents are ongoing. A background in biochemistry or pharmacology and experience with in vitro enzyme assays and/or HPLC is preferred.

Individuals with less than five years postdoctoral experience may apply by submitting a curriculum vitae, three letters of reference and a statement of research interests to Ms. Kathleen Hanratty, Personnel Management Branch.

National Institute On Alcohol Abuse And Alcoholism
National Institutes Of Health
Building 31, Room 1B58, 9000 Rockville Pike Bethesda, MD 20892
Equal Opportunity Employer

RESEARCH OPPORTUNITIES

Saint Francis Hospital and Medical Center, located in Hartford, Connecticut, is seeking candidates to join our NIH-supported Bone Biology Laboratory, to work on molecular and cellular biology of the bone.

RESEARCH SCIENTIST
Candidates should have completed a doctoral degree and a postdoctoral fellowship, with prior molecular and cellular biology experience. Candidates will be eligible for an appointment at the University of Connecticut School of Medicine.

POST-DOCTORAL FELLOW
Candidates should have completed a doctoral degree.

Interested candidates should send a resume and references to: Dr. Ernesto Canalis, Director, Department of Research, Saint Francis Hospital and Medical Center, 114 Woodland Street, Hartford, CT 06105-1299.

BECTON DICKINSON

SCIENTIST
Molecular Biology

Becton Dickinson Research Center is expanding its corporate program in the development of DNA probe-based technology for diagnostic applications. Innovative and highly-motivated scientists are invited to submit an application to join a multi-disciplinary team of investigators working on novel nucleic acid amplification technologies.

Positions are available for Ph.D.-level scientists (two positions) to join our amplification development group. You will be involved in the development of improved nucleic acid amplification systems based upon novel enzymatic methods.

The successful candidate must have a doctorate degree in biochemistry or molecular biology with at least two years of postdoctoral experience in the area of restriction enzyme characterization, DNA polymerases or nucleic acid replication enzymology with a published record of accomplishment.

For immediate consideration, please send your resume: Human Resources, Becton Dickinson & Company Research Center, 21 Davis Drive, Research Triangle Park, NC 27709. AA/EEO Employer.

Becton
Dickinson

THE REWARDS OF DISCOVERY

Biotechnology Staff Scientist

Affymax Research Institute is an innovative venture dedicated to the development of new technology which will accelerate the process of drug discovery. Affymax offers a creative and stimulating environment for talented people.

Affymax has an opening for a scientist to use biological peptide libraries to identify the epitopes of human antibodies. A doctoral degree and one to three years of postdoctoral experience are required. Experience with molecular biological, immunochemical, microbiological, or biochemical techniques is required. Experience with handling human serum samples is required. Experience in the development of ELISA and other diagnostic tests is encouraged.

If you would like to join our fast growing company, send your resume to: Affymax Research Institute, Job Code PS86, Human Resources Department, 4001 Miranda Avenue, Palo Alto, California 94304. EOE.
POSITIONS OPEN

SIGMA XI
The Scientific Research Society
DIRECTOR OF MEMBERSHIP

A senior position at the Society’s headquarters in Research Triangle Park, North Carolina, the Director is responsible for working with the Membership Committee to develop and implement policies dealing with the Society’s 100,000 members, who are primarily Ph.D.-level research scientists and engineers. Sigma Xi membership is open to scientists, engineers, and other technical staff of four who handle the day-to-day work. The Director is responsible for analyzing trends, identifying problems, and proposing actions regarding membership satisfaction, retention, and selection. Extensive marketing experience in technical areas or experience as a membership director or in a senior membership position for a technical society or association is required. A master’s degree or equivalent experience in a technical or scientific field, including social sciences, is desired. Send resume to: Gary C. G. Meadows, Director of Administration, P.O. Box 139758, Research Triangle Park, NC 27709. Deadline for resumes is January 31, 1993. Sigma Xi is an Equal Opportunity Employer.

FACULTY POSITION IN PHARMACOLOGY/TOXICOLOGY, WAYNE STATE UNIVERSITY COLLEGE OF PHARMACY AND ALLIED HEALTH PROFESSIONS, DEPARTMENT OF PHARMACEUTICAL SCIENCES.
The Department of Pharmaceutical Sciences is seeking candidates for a tenure-track position available immediately in pharmacology/toxicology, behavioral pharmacology/toxicology, or immunopharmacology/toxicology. Persons with demonstrated potential to create an active graduate research program in these areas and who are very well versed in grant writing are urged to apply. Candidates will be expected to establish an active graduate research program in their respective areas and to develop a strong potential for receiving extramural funding. University of Chicago at the advanced undergraduate level, and will have the opportunity to participate in interdisciplinary teaching. She/he will also be expected to establish a vigorous research program with which undergraduate, graduate, and minority students can substantively participate. Applicants should submit detailed curriculum vitae, a description of their teaching and research plans, and the names of three references to: Dr. N. Kusich, Chairman, Department of Chemistry, Amherst College, Amherst, MA 01002, by February 1, 1993, and should arrange to have their letters of reference sent to the same address. Amherst is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

INORGANIC CHEMISTRY—AMHERST COLLEGE.
A full-time tenured or tenure-track FACULTY POSITION is available for a Ph.D. inorganic chemist beginning in July, 1993. The rank for this position is open. Applicants are expected to interact in the above areas of research. Ph.D. in chemical education is preferred. Interested candidates are encouraged to apply and are invited to visit the department. Amherst College is an Equal Opportunity/Affirmative Action Employer and especially welcomes applications from women, minority, and disabled candidates.

POSTDOCTORAL POSITION

Molecular Biologist/Biochemist to study the intracellular trafficking of antigens, the roles of lipid rafts, cholesterol and cholesterol related molecules. The successful candidate will be responsible for preparing a research plan, performing experiments and maintaining an active participation in scientific meetings. The position is available for a period of two years and is renewable for an additional two years. The position is available immediately. Interested candidates should submit a brief resume, a description of research experience and two letters of recommendation to: Dr. L. E. Urbach, Director, Department of Chemistry, Rockefeller University, 1230 York Avenue, New York, NY 10021. M.D.C# CR0409.


136

SCIENCE • VOL. 259 • 1 JANUARY 1993

POSITIONS OPEN

FACULTY POSITION IN GENERAL/ANALYTICAL CHEMISTRY
WEST VIRGINIA STATE COLLEGE

Applications are invited from persons holding a Ph.D. degree in Analytical Chemistry for a full-time, tenure-track position in the Chemistry Department of a four-year state college. A strong commitment to excellence in teaching is mandatory and a background in instrumental and HPLC is recommended. The position offers four-year B.S. in Chemistry and two-year A.A.S. in Chemical Technology degrees. Responsibilities include teaching general chemistry lecture and lab courses for non-science and science majors, quantitative analysis, and instrumental analysis lecture and lab for chemical technology and chemistry majors. The successful candidate should have a Ph.D. in Analytical Chemistry or related field. Salary and rank negotiable. Excellent benefit package.

West Virginia State College is a historically black college which has evolved into a fully accessible, racially diverse, and multi-generational institution. It is the largest institution of higher education in the Charleston, WV metropolitan area, with an annual enrollment of approximately 5,000 students. West Virginia State College is an Affirmative Action/Equal Opportunity Employer and actively solicits applications from women and minorities.

Send application, statement of teaching and research philosophy, official undergraduate and graduate transcripts, and three letters of recommendation by March 1, 1993, to: Dr. Barbara J. Oden, Vice President for Academic Affairs, West Virginia State College, Institute, WV 25112-1000.

MICROBIOLOGY AND IMMUNOLOGY

The Department of Microbiology and Immunology of the University of Oklahoma Health Sciences Center invites applications for two TENURE-TRACK POSITIONS with a preferred interest in the areas of:

Immunology

Molecular Pathogenesis

Candidates with postdoctoral experience, as well as more senior scientists considered, rank will depend on the qualifications of the successful applicant. The applicant should have demonstrated excellence in conducting independent research and be able to compete for extramural research support. Academic responsibilities will include participation in the instruction of medical, dental, and graduate students. The position will provide excellent opportunities for conducting basic biomedical research in a department of 12 faculty members and 31 adjunct members, with a strong emphasis on immunology and immunobiology.

Send curriculum vitae, current research statement, teaching statement, and names of three references to: Dr. R. E. Lloyd, Department of Microbiology and Immunology, University of Oklahoma Health Sciences Center, Oklahoma City, OK 73190.

The University of Oklahoma Health Sciences Center is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN MOLECULAR EVOLUTION

Two postdoctoral positions in molecular evolution and systematics are available at the State University. Successful candidates will work in the laboratory of one or more of the following investigators: M. Blackwell (Biological Anthropology and Genetics), D. C. Swanson (Pharmacology/Bryology), D. W. Foltz (Population Genetics), D. A. Good (Herpetology), M. S. Haffer (Host-Parasite Coevolution), D. P. Fahle (Plant-Animal Interactions), M. S. Llopis (Genetics), and J. L. E. Urban (Vascular Plant Systematics). A research stipend accompanies position. Completion of requirements for Ph.D. necessary for employment; employment will initiate after 1 April 1993. Interested persons should write: Dr. Robert M. Zink, Museum of Natural Science, Louisiana State University, Baton Rouge, LA 70803, to receive application information. Applications will be accepted until 1 March 1993, or until suitable candidates are identified. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR CHAPERONES

Three-year POSTDOCTORAL POSITION is available to study roles of chaperones in protein folding, assembly, and translocation. Structure and function of 70K stress proteins, as well as roles of molecular chaperones in related field required. Send curriculum vitae, reprints, and three letters of reference to: Dr. William J. Chirico, Department of Anatomy, Box 5, State University of New York—Health Science Center at Brooklyn, 450 Clarkson Avenue, Brooklyn, NY 11203. Equal Opportunity/Affirmative Action Employer. DMCA# CR0409.

Wyeth-Ayerst Laboratories is a Division of Fortune 100 American Home Products Corporation, a leading manufacturer and marketer of health care products with multi-billion dollar annual sales and an impressive record of growth and profitability.

As a GLOBAL research-based pharmaceutical company, we are committed to helping people lead healthier lives through innovative pharmaceutical and nutritional products. It is from this commitment and position of strength that we move forward with a major expansion of our research and development activities.

**RESEARCH SCIENTISTS – Microbiology Research**

Participate in development of drugs against viral diseases and of new models for such diseases. Experience in antiviral drug development required. Direct experience with human papillomavirus vaccines beneficial but not required. Ph.D. in the appropriate scientific discipline (Pharmacology, Biology, Microbiology, Biochemistry) with a minimum of 3 years related laboratory experience.

**SENIOR MICROBIOLOGISTS**

Participate in the development of drugs against viral diseases and of new models for such diseases. Ideal candidates will have solid experience in basic techniques used in virology, pharmacology, tissue culture, or molecular biology and in vivo models of viral diseases. These positions require a B.S./M.S. in the appropriate scientific discipline (Molecular Biology, Biology, Microbiology, Biochemistry) with 4-5 years related laboratory experience. Experience in in vitro and in vivo papillomavirus models desired.

Wyeth-Ayerst offers an attractive salary, comprehensive benefits package and opportunities for advancement for the right candidate. For immediate consideration, forward your resume and salary history/requirements to: Wyeth-Ayerst Research Personnel, Dept. SG, P.O. Box 8299, Philadelphia, PA 19101-0082. Equal Opportunity Employer. M/F/D/V responses encouraged.
IRRI
INTERNATIONAL RICE RESEARCH INSTITUTE
POSITION ANNOUNCEMENT
FOR
Agronomist

The International Rice Research Institute (IRRI) is seeking a highly motivated, dynamic, and creative agronomist to join its research team in Lao PDR.

The Institute
IRRI is a renowned center for research excellence dedicated to improving the well-being of present and future generations of rice farmers and consumers, particularly those with low income. IRRI seeks to generate and disseminate rice-related knowledge and technology that is environmentally, socially, and economically sound.

The Institute is one of the 16 international agricultural research centers of the Consultative Group on International Agricultural Research (CGIAR). The research and administrative headquarters of this non-profit, autonomous organization are at Los Baños, Philippines. Outreach scientists are posted in 12 countries of Asia, Africa, and Latin America. IRRI scientists actively collaborate with national programs to develop more productive and sustainable rice technology.

The Position
The agronomist will collaborate with Lao scientists in the design, implementation, and analysis of on-station and on-farm experiments for lowland rice-based farming systems, to develop more productive yet sustainable farming systems with emphasis on improved soil fertility and crop management. In addition, the agronomist will oversee rice varietal improvement. Effective linkages with extension and development programs in Lao PDR will be developed and maintained. The successful candidate will also help develop in-country training programs in agronomic research.

The position is based in Vientiane but requires regular travel throughout the country.

The Qualifications
The successful applicant should have a Ph.D. in agronomy, soil science, or a related discipline and have a minimum of 5 years experience in developing and leading agronomic research programs in rainfed rice. Research experience in S.E. Asia is desirable. The candidate must have the ability to work within a multidisciplinary and multicultural team, and with national program scientists. Fluency in English is required; a knowledge of Lao or Thai would be advantageous.

IRRI provides a gender sensitive work environment and particularly welcomes women applicants.

Salary and Benefits
The salary and perquisites for the position are commensurate to qualifications and are internationally competitive.

The Application
Applications will be accepted until 15 January 1993 or until a successful candidate has been identified. Submit curriculum vitae, date of availability and names (with fax or telex addresses) of three references to:
Dr. Klaus Lampe, Director General
International Rice Research Institute
P.O. Box 933, 1099 Manila, Philippines
Fax: 63-2-818-2087; Telex: (ITT) 45365 RICE PM
(RCA) 22456 IRI PH

University of Minnesota
Department of Physiology
Announces the Maurice Visscher Land Grant Chair in Physiology

The Department of Physiology is accepting applications for the Visscher Chair in Physiology, established to honor Maurice Visscher, former Head of Physiology at Minnesota (1936–1968) and to promote further excellence in research and teaching in the Department. We are seeking applications from established investigators at the ASSOCIATE or FULL PROFESSOR level who have achieved international recognition for their research.

Degree requirements: Ph.D., M.D., or foreign equivalent. We also welcome nominations. We will place special emphasis on applicants with strong research programs in cell and molecular physiology, particularly those which fall within the broad, traditional subdisciplines of cardiovascular, neuroscience, renal and the cell and molecular mechanisms of transport, ion channel function, transduction and transcellular communication. This endowed chair is associated with a 12 month, tenure faculty position at a rank and salary commensurate with the experience of the individual. Endowment income can be used to enhance the research mission of the laboratory. Affiliation with Departmental and University-wide interdisciplinary graduate programs is expected.

Applicants should submit curriculum vitae, brief statement of their current research and future research directions and two recent reprints. In addition, we ask for the names of three persons to be contacted, with permission, at a later date for reference.

Send material or nominations to:
Dr. Richard Poppele
Professor of Physiology
University of Minnesota Medical School
6-255 Millard Hall
435 Delaware Street, S.E.
Minneapolis, MN 55455

Deadline for Applications is March 1, 1993.
The University of Minnesota is an Equal Opportunity Educator and Employer

Associated Western Universities, Inc., a consortium of 44 universities, has been a contractor to the Federal energy agency for 30 years.
AWU is a leader in the development and administration of science and engineering education programs on behalf of the U.S. Department of Energy (DOE). These programs provide support for faculty and students from high schools, colleges, and universities to participate in research at more than 40 DOE-funded laboratories. AWU is located in the residential community of Holladay in southeast Salt Lake City. The city offers a diversity of cultural and other leisure activities, and the state is renowned for its opportunities for year-around outdoor recreation.

To support its continuing growth, AWU is seeking creative individuals to fill two leadership positions. Applications are invited for:

Program Manager—Precollege
Program Manager—Underrepresented Groups.

Responsibilities. Manage national and site-specific science education programs; interface with program partners; evaluate and analyze programs; conceive, plan, and develop new programs; participate actively as a member of the AWU team.

Qualifications. Bachelor's degree (advanced degree preferred), with strong background in science and engineering; excellent communication, interpersonal, organizational skills; experience in education and/or administration of sponsored programs desired.

Salary commensurate with qualifications and experience; excellent benefits. To ensure consideration, applications should be received by January 31, 1993. Send letter of application, salary requirements, resume, and the names, addresses, and telephone numbers of three references to: Dr. R. Norman Orava, Deputy Director, Associated Western Universities, Inc., 4190 S. Highland Dr., Suite 211, Salt Lake City, UT 84124.
DEPARTMENT OF MICROBIOLOGY
UNIVERSITY OF SASKATCHEWAN

Applications are invited from academically oriented research scientists for a tenure-track Assistant Professor position in the Department of Microbiology at the College of Medicine, University of Saskatchewan, Saskatoon. Applicants should have a Ph.D. or M.D. degree, at least two years of postdoctoral experience and an interest in developing an independent research program in a broadly based academic environment. Medical microbiologists interested in an academic career, including responsibilities for management of a clinical bacteriology laboratory are also invited to apply. The department has 13 faculty, including members of the Clinical Microbiology Department in the Royal University Hospital. Currently, 16 students are enrolled in M.Sc. and Ph.D. graduate programs in the department. Research interests in the department include diverse aspects of both basic and clinical microbiology, with a special emphasis in microbial pathogenesis, immunology, microbial genetics and bacterial physiology. Collaboration with existing research programs in the department will be strongly encouraged. An application letter together with curriculum vitae, names of three references and a statement of research interests should be sent by April 15, 1993 to:

Dr. L.F. Qualtiere
Head, Department of Microbiology
Health Sciences Building
University of Saskatchewan
Saskatoon, Sask. S7N 0W9

The University of Saskatchewan is committed to the principles of employment equity.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

The University of Pittsburgh Medical Center (UPMC) and the Pittsburgh Cancer Institute are seeking applicants for new FACULTY POSITIONS in the areas of molecular biology and immunology of human brain tumors. By close cooperation between the Department of Neurosurgery and the Pittsburgh Cancer Institute, a major Brain Tumor Research Program is being developed. Dr. Paul Kornblith from Neurosurgery and Dr. Mark Gilbert from Neuro-Oncology are Co-directors of the Clinical Neuro-Oncology Program. The individual recruited for this research position will be able to focus on their own individual area and have the opportunity to train graduate students, as well as participating in basic molecular biological and/or immunology research in the brain tumor field. Faculty appointment, as the Assistant or Associate Professor level, jointly in clinical and basic science departments, is available. Salary will be in the $40,000 to $75,000 range commensurate with background and training. Successful applicants will be given laboratory space in the new Biomedical Science Tower of the UPMC, start-up equipment and other support. In order to ensure full consideration, applications must be received by February 26, 1993.

To obtain more information and to submit an application, write to Ronald B. Herberman, M.D., Chairman of Search Committee and Director of the Pittsburgh Cancer Institute, 200 Meyran Avenue, Pittsburgh, PA 15213; telephone: (412) 647-8506.

The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer.

DIRECTOR
CANCER BIOLOGY

Discovering New Avenues for Pharmaceutical Therapy...

Cell Therapeutics, Inc. is an innovative biopharmaceutical company developing novel small molecule inhibitors of signal transduction pathways. Our discoveries represent breakthrough therapies for a variety of significant human diseases.

We invite you to consider this opportunity to be responsible for establishing a comprehensive program for the preclinical development of novel anti-cancer therapeutics that inhibit oncogene-mediated cellular events and become an active participant in later phases of drug development. You will be 3 or more years from a post-doctoral fellowship, have expertise in the molecular and cellular biology of oncogenes and have experience in the drug industry. Experience with anti-cancer drug screening models and transgenic models preferred.

CTI is located in downtown Seattle, with views of Puget Sound and the Olympic Mountains. We offer an attractive compensation and benefits package, plus an environment where you can make a significant contribution to medical technology. For consideration, send or fax your C.V. to:


Population Biologist

Assistant Professor, tenure-track position available 9/93 in population dynamics or systems biology, to teach undergraduate courses and a course in a new Environmental Biology doctoral track. Ph.D. ability to attract external funding, and strong research credentials required in either demographic or genetic models of populations, metapopulations, host-pathogen interactions or plant-herbivore systems, or the application of molecular and/or quantitative approaches to systematic problems. Post-doctoral experience and interest in conservation and biodiversity preferred. Send letter stating interests and goals in research and teaching, CV, and three reference letters to Chair, Biology Search Committee, Biology Department, UMass-Boston, 100 Morrissey Blvd., Boston, MA 02125-3393. Applications received by January 30, 1993 will receive priority consideration. An Affirmative Action, Equal Opportunity, Title IX employer. Women and minorities are especially encouraged to apply.

University of Massachusetts
Boston

Advancement in Science Begins at Bio-Rad Laboratories

Bio-Rad Laboratories is a world leader in clinical diagnostics and one of the fastest growing companies in California. Continued growth has created several opportunities in major U.S. cities for talented scientists who wish to begin their careers in industry as a:

Diagnostics Sales Representative

You will serve in a highly visible position with excellent opportunities for growth and advancement. Career paths include sales and product management leading to general management.

We require a BS or equivalent in a Life Science (Ph.D., MBA or MS a plus). Successful candidates must be willing to relocate.

We offer a competitive compensation package. Please send your resume to: Bio-Rad Laboratories, Dept. 531, 4000 Alfred Nobel Dr., Hercules, CA 94547. An Affirmative Opportunity Employer, M/F/D/V.
POSTDOCTORAL POSITION available immediately to work on NIH-funded grant to study mucosal immunity as related to enhancement of the immunogenicity of enteric viral vaccines and recombinant proteins in a pig challenge model. Experience in immunology is required with training in molecular virology desirable. Send curriculum vitae and 3 letters of recommendation to: Dr. Linda Saif, Food Animal Health Research Program, OARD, The Ohio State University, Wooster, OH 44691.

POSTDOCTORAL POSITION in CARDIAC ELECTROPHYSIOLOGY. Available immediately to study the ionic mechanisms of the β-adrenergic stimulation of excitation-contraction coupling in single cells isolated from the ventricular node, the pacemaker of the heart. Experience with patch-clamp techniques desired. Please send curriculum vitae and names of three references to: M.R. Locken, Ph.D., Section on Molecular Biology, Joslin Diabetes Center, One Joslin Place, Boston, MA 02215. An Equal Opportunity/Affirmative Action Employer.

HARVARD MEDICAL SCHOOL / JOSLIN DIABETES CENTER

Postdoctoral Position

Position available to study regulation of gene expression controlling cell division and differentiation during early mouse embryogenesis, and the effects of drugs and chemicals on these processes. Experience in mammalian embryology or molecular biology desired. Please send curriculum vitae, statement of research interests, and names of three references to: M.R. Locken, Ph.D., Section on Molecular Biology, Joslin Diabetes Center, One Joslin Place, Boston, MA 02215. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION now available to study altered gene expression during chemical oral carcinogenesis using in vivo/in vitro model and human tissue. Experience in cell culture, biochemical techniques, immunohistochemistry, and basic molecular biology techniques, including in situ hybridization and PCR required. Send curriculum vitae and the names of three references to: Dennis Solt, D.M.D., Ph.D., Northwestern University, Department of Pathology, 303 East Chicago Avenue, Chicago, IL 60611. Telephone: (312) 503-8240.

POSTDOCTORAL POSITION in COCHLEAR PHYSIOLOGY. Available immediately to study the relationship of myelinated and nonmyelinated nerve afferents and the vibration of the basilar membrane. Send curriculum vitae and the names of three references to: A. Raugno, Department of Otolaryngology, University of Minnesota, 2001 6th Street S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Educator and Employer and encourage applications from women and minorities.

POSTDOCTORAL POSITION TO STUDY MOLECULAR BIOLOGY OF THE SARCOCOM- MAL SODIUM-CALCIUM EXCHANGER PROTEIN. A postdoctoral position is available immediately to complete the sequencing of the cDNA, to express the exchanger activity, to isolate and purify the protein, and to determine its tertiary structure and function in vascular smooth muscle in normotensive and hypertensive states. Experience in molecular biological techniques and protein chemistry is desirable. Send curriculum vitae and names of references to: Dr. M.A. Mathil, Department of Pharmacology and Cell Biophysics, University of Cincinnati College of Medicine, Cincinnati, OH 45267-0808.

POSTDOCTORAL POSITION AVAILABLE immediately to examine the relationship of thyroid hormone and sex steroids to the function of glutathione S-transferase. Experience in biochemical and molecular biology background necessary. Send curriculum vitae and 3 letters of reference to: L. Waskell, M.D., Ph.D., University of California, San Francisco, Mallinckrodt Center, Department of Anesthesia, 4150 Clement Street, San Francisco, CA 94121. Equal Opportunity Employer.

POSTDOCTORAL POSITION available March 1, 1993 to study the mechanisms of cell membrane transport. Ph.D. with experience in recombinant DNA, electronic microscopy, and biochemistry required. Salary of $22,000 to $30,000 will be commensurate with skills and experience. Send curriculum vitae and names of four references to: E. Young, Harvard Medical School, Department of Pharmacology and Toxicology, 717 Huntington Avenue, Boston, MA 02115. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to study the molecular genetics of DNA replication and the mammalian cell cycle. Epstein-Barr virus sequences as well as immunoglobulin, globin, eye and thyroidal DNA genes, families are being used as model systems both in vivo and in vitro to study cell cycle regulation of DNA replication. Other projects include the role of cyclin in regulating DNA replication. Apply by mail and a fax copy to: Dr. Carl Schildkraut, CH 416, Albert Einstein College of Medicine, Park Avenue, Bronx, NY 10461. FAX: (212) 829-5619. Equal Opportunity Employer.

POSTDOCTORAL POSITION in HUMAN MOLECULAR GENETICS. The University of Michigan. Position available isolating and analyzing genes responsible for human developmental anomalies. Project involves studies of familial and sporadic cases. Opportunity for interaction with numerous investigators in the Human Genome Center and Developmental Biology Program. Applicants should have Ph.D. degree and familiarity with molecular and cytogenetic techniques. Send curriculum vitae, a statement of research interests, and the names of three references to: Dr. Jerome L. Gorski, Division of Pediatric Genetics, Departments of Pediatrics and Human Genetics, The University of Michigan, 3570 MSB RR, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0688. Telephone: (313) 763-5276. FAX: (313) 764-4133. An Equal Opportunity/Affirmative Action Employer.

THREE POSTDOCTORAL POSITIONS available June 1, 1993 on NIH Training Grant in Chemical and Viral Carcinogenesis at the Kenneth Norris Jr. Comprehensive Cancer Center at the University of Southern California School of Medicine to train with Drs. Yuen Fung (molecular biology of retinoblastoma), Craig Solt, M.D., Ph.D. (immunohistochemistry and molecular mechanisms of mutation), Peter Jones (DNA methylation, molecular biology of urolologic tumors), Joseph Landolph (molecular biology of chemical carcinogenesis), Amy Lee (steroid-inducible gene expression, cell cycle regulation), Pradip Roy-Barman (molecular genetics of feline leukemia viruses; tumor suppressor gene, v-fos), and Saurabh Rathi (molecular biology of RNA tumor viruses). Modern facilities include protein and DNA sequencing and peptide synthetizing facilities. Excellent staff, capable facilities and opportunity to commensurate with training/experience. Candidates must be U.S. citizens/permanent residents. Minority and women candidates strongly encouraged to apply. Send three letters of recommendation, NIH research statement, and research mentor preference to: Dr. Joseph Landolph, Principal Investigator, Kenneth Norris Jr. Comprehensive Cancer Center, P.O. Box 33800, 1441 Eastlake Avenue, University of Southern California, School of Medicine, Los Angeles, CA 90033-0800. Telephone: (213) 224-6526.

POSTDOCTORAL POSITION—Molecular biologi- st to work on regulation, expression, site directed mutagenesis, and structure-function studies of folate de- pendent enzymes. Send curriculum vitae and names of three references to: G. Peter Beardsley, Ph.D., M.D., Department of Pediatrics and Pharmacology L17, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. FAX: (203) 785-7194. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Position available immediately to study the molecular biology of cellular differentiation (muscle differentiation). Areas of research include aromatase expression and the mechanisms of myogenic inhibitors. Interested candidates are encouraged to send curriculum vitae to: Dr. Alan Taylor, Director, Molecular Biology Core Laboratory, Department of Biological Sciences, The Wichita State University, Wichita, KS 67260-0026. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP available to U.S. citizens for the study of mechanisms of phagocytic cell involvement in chemically induced liver or lung injury. A Ph.D. degree is required; research training in biochemistry, molecular and/or cell biology is preferred. Applicants should submit curriculum vitae and names of three references to: Dr. John C. Lee, Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI 48824. Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP in Complex Systems Studies at the Santa Fe Institute (SFI). The Santa Fe Institute expects to have an opening for a postdoctoral fellow beginning in September, 1993.

The Institute's research program is devoted to the study of complex systems, especially complex adaptive systems. Systems and techniques under study include the economy, the immune system, biomolecular sequence and structure; the origin of life; artificial life, models of evolution; neural networks, genetic algorithms, classifier systems and other adaptive computation techniques; complexity, entropy and the physics of information; nonlinear modeling and prediction; and others.

Candidates should have, or expect to receive soon a Ph.D. and should have backgrounds in theoretical physics or chemistry, computer science, mathematics, economics, psychology, theoretical biology, dynamical systems theory, or related fields. An interest in interdisciplinary fields is essential. Evidence of this interest, in the form of previous research experience and publications, is also desirable. Contact, to include curriculum vitae and statements of research interests, and anticipated length of stay, is necessary. Incomplete applications will not be processed.

Send applications to: Postdoctoral Committee, Santa Fe Institute, 1500 E. Old Palace Road, Santa Fe, NM 87501. Applications or inquiries may also be sent by electronic mail to: postdoc@santafe.edu. SFI is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP HARVARD MEDICAL SCHOOL

NIH-funded position available July 1, 1993 to study mechanisms of signal transduction in vascular cells. An advanced degree in biochemistry, plus familiarity with recombinant DNA is highly desirable. Curriculum vitae and the names of three references should be forwarded to: Dr. Craig Kent, Division of Vascular Surgery, Department of Surgery, Harvard Medical School, Beth Israel Hospital, 350 Brookline Avenue, Boston, MA 02215.

POSTDOCTORAL FELLOWSHIP available immediately, supported by NIH grant, to perform molecular epidemiology and genetic characterization of human herpesvirus-6. Studies will involve PCR, recombinant DNA, as well as mapping/function analyses of origin and packaging sites—with a view towards development of HHV-6 based vectors. Send curriculum vitae and names of three references to: Steve Dewhurst, Department of Microbiology and Immunology, University of Rochester Medical Center, 601 Elmwood Avenue—Box 672, Rochester, NY 14642.

POSTDOCTORAL FELLOW

A postdoctoral position is available immediately for a highly motivated scientist with training and research experience in signal transduction mechanisms to study gene expression and related signal transduction mecha- nisms in experimental cerebral ischemia. Applicants should have a doctoral degree with strong background in molecular biology and experience in elucidating current NIH postdoctoral stipends which are dependent on qualifications and experience. Please send curriculum vitae and names of three references to: Dr. John C. Lee, Department of Biochemistry, The University of Texas Health Science Center at San Antonio, San Antonio, TX 78284. Applications must be received no later than January 31, 1993. An Equal Opportunity/ Affirmative Action Employer.

140

SCIENCE • VOL. 259 • 1 JANUARY 1993
Fellowship Opportunity

DeCamp Fellowship in the Life Sciences, Ethics and Policy

Princeton University is pleased to offer a new resident fellowship program in the Life Sciences and Ethics. A purpose of the fellowships is to provide an opportunity for life scientists to devote a year toward an integrated plan of multidisciplinary study at Princeton University. The DeCamp Fellows will be affiliated with the Department of Molecular Biology or the Department of Ecology and Evolutionary Biology. The fellows will also be affiliated with the Program in Ethics and Public Affairs in the Woodrow Wilson School and the University Center for Human Values at Princeton.

Applications are invited from individuals with a Ph.D. or equivalent degree, at any career stage from postdoctoral to mid-career faculty. Candidates must demonstrate a high level of quality in the work they have produced to date, and a clear interest in the study of a policy issue in the life sciences that raises ethical concerns.

The deadline for application materials is March 1, 1993 for fellowships beginning September 1993. There is no application form. Applicants should submit a curriculum vitae, a sample of their published work, and a brief statement describing the specific area that they are interested in pursuing during their tenure at Princeton. Applicants should arrange for three letters of reference to be sent directly to the DeCamp Committee. All application materials should be sent to: The DeCamp Committee; Center for Energy and Environmental Studies; H-201 Engineering Quadrangle; Princeton University; Princeton, New Jersey 08544.

For further information, contact Nancy Duprey Koehler at the above address.

Princeton is an affirmative action/equal opportunity employer.

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PROTEIN PURIFICATION / CHARACTERIZATION PROJECT LEADER

Miles Inc. has an opening for a Senior Staff Scientist with significant experience in purification / characterization of mammalian glycoproteins.

Responsibilities include:

- Leadership of projects through purification of therapeutic grade proteins for clinical trials under cGMP environments.
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- Familiarity with state of the art biochemical assay methods to extensively characterize the purified glycoproteins.

A Ph.D. in Biochemistry/Biochemical Engineering with 8+ years of proven experience and accomplishment is required. Miles Inc offers attractive compensation and generous benefits.

Send resume and salary history to:

JoAnn McHugh,
Miles Inc, 4th & Parker Sts,
P.O. Box 1986,
Berkeley, CA 94701

Pharmaceutical Division
An Equal Opportunity Employer

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Assistant Scientist

Marine Chemistry & Geochemistry

Tenure-track position available November 1, 1993. Successful candidate will, after a 1 to 2 year transition period, assume scientific leadership of a multi-year project of time-series measurements of deep-ocean particle flux at the WHOI-JGOFS site in the Sargasso Sea. Will also be responsible for logistics of field work, processing and archiving samples, seeking continued funding for the project. The series is presently in its 15th year under NSF sponsorship with continuation anticipated. There is considerable latitude for the focus of successful candidate’s research (e.g., carbon cycle, tracer elements, stable or radiotopes, etc.), and opportunities for cooperative projects abound. Requirements: Ph.D. oceanographic or related discipline preferred, good organizational skills, sea-going experience, knowledge of time series analysis, familiarity with MSDOS and UNIX based computers.

The Department has a staff of about 80 with 20 tenured and tenure-track scientists, and 18 Ph.D. candidates in the WHOI-MIT joint graduate program. Research interests of staff include organic and inorganic geochemistry, ranging from atmosphere to the earth’s mantle, but with emphasis on the ocean. Facilities at WHOI include three ocean-going research vessels, the deep submersible ALVIN, a wide range of state-of-the-art analytical instrumentation, and access to national supercomputing facilities.

Send cover letter, curriculum vitae and names and addresses for 3 references by March 1, 1993 to:

Personnel Office Box 54PAP

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Woods Hole OCEANOGRAPHIC INSTITUTION

Woods Hole, MA 02543
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SENIOR POSTDOCTORAL FELLOW—The Department of Pathology and Laboratory Medicine of Temple University School of Medicine is seeking applicants for a Senior Postdoctoral Fellow with a Ph.D. in Biochemistry, Microbiology, or Pharmacology. The successful candidate will be involved in a research area focused on molecular biological techniques, interest in the molecular actions of chemotherapeutic agents and mechanisms of drug resistance required for projects to identify genes responsible for resistance to chemotherapeutic agents and to perform cell line and DNA testing by Dr. Henry Simpkins, M.D., Ph.D., Professor and Chairperson, Department of Pathology, Temple University School of Medicine, 3401 North Broad Street, Philadelphia, PA 19140. Temple University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE, Brookhaven National Laboratory. The Chemistry Department has a position available for a recent Ph.D. trained in pharmacology for a project to perform in vivo microdialysis studies in cigarette smoking and other neurochemical studies in humans and primates using PET. The initial appointment is for one year, renewable. Candidates can apply by sending curriculum vitae, publications list, and names of three references to: Mr. Richard L. Hahn, Chemistry Department, Building 555, Brookhaven National Laboratory, Upton, NY 11973, or by phone at (516) 576-6082. BNL is an Equal Opportunity/Affirmative Action Employer. No agencies, please.

POSTDOCTORAL RESEARCH ASSOCIATE, Oregon State University, Corvallis, OR 97331–0502. The Division of Chemistry is seeking a postdoctoral research associate with a strong background in statistics to work as a team of computer scientists, geneticists, and statisticians to develop or enhance estimation algorithms and software for mapping genetic markers and genes underlying quantitative traits. A Ph.D. in statistics or genetics and a very strong background in applied statistics are essential. Please reply by January 30, 1993. Salary will be competitive. Oregon State University is an Equal Opportunity/Affirmative Action Employer and is responsive to dual-career needs.

POSTDOCTORAL RESEARCH ASSOCIATE, University of Michigan, Group, A. This position is available immediately and is in the laboratory of Dr. David K. Fischman, Department of Dermatology, University of Michigan, Ann Arbor, MI 48109. Dr. Fischman is interested in prostaglandins and cytokines. The successful candidate will be involved in studies related to prostaglandins and cytokines and should have a Ph.D. in cytology, biochemistry, or related field. The starting salary is competitive. University of Michigan is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST—Scripps Research Institute, La Jolla, CA 92037, is seeking research scientists in several areas of molecular biology and genetics. These positions are at the postdoctoral level and require a Ph.D. with a strong background in molecular biology and experience in mammalian cell culture and molecular cloning techniques. Applicants should submit a letter of interest, curriculum vitae, and the names and addresses of at least three references to: Dr. Alan R. Katzenstein, Chair, Department of Molecular Biology, Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. Scripps Research Institute is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST—The laboratory of Dr. John F. Burger, Department of Medicine, University of Michigan, Ann Arbor, MI 48109, seeks a talented research scientist with experience in molecular biology and genetics to work on a project involving the use of transgenic mice as models for human disease. The candidate should have a Ph.D. or equivalent degree in molecular biology and possess the ability to work independently. Experience in mouse genetics, transgenic technology, and microcomputer programming is desirable. University of Michigan is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE, Inc. The Division of Toxicology is seeking a qualified candidate with a Ph.D. in biochemistry, pharmacology, or related field to perform research on the effects of environmental pollutants on the central nervous system. The successful candidate will be involved in studies related to the effects of environmental pollutants on the central nervous system. University of California, Los Angeles is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST—The Division of Toxicology is seeking a qualified candidate with a Ph.D. in biochemistry, pharmacology, or related field to perform research on the effects of environmental pollutants on the central nervous system. The successful candidate will be involved in studies related to the effects of environmental pollutants on the central nervous system. University of California, Los Angeles is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT RESEARCH IMMUNOLOGIST—Immediate opening for an Assistant Research Immunologist to perform transplantation immunology studies using DNA typing methods for HLA, Flow cytometry, and Immunohistochemistry. The candidate should have a Ph.D. in Immunology or related field and experience in transplantation. The candidate must be able to work independently and develop new techniques. University of California, Los Angeles is an Equal Opportunity/Affirmative Action Employer.

Molecular Genetics

The Division of Human Genetics, University of Maryland at Baltimore, seeks a full-time, tenure-track investigator who is applying molecular approaches to developmental and/or molecular biology problems in mammalian or other eukaryotic systems. The successful candidate will be expected to participate in an interactive research environment and contribute to the training of medical, graduate, and professional students. A Ph.D. or M.D. degree, with at least two years of relevant postdoctoral training and experience, is required. The ability to obtain independent funding within a reasonable period is essential. This position is available July 1, 1993. The Division of Human Genetics consists of 11 full-time faculty members (8 Ph.D., 2 M.D., and an M.D./ Ph.D. candidate), one postdoctoral fellow, one clinical coordinator, and one research technician. A broad range of basic and clinical research is represented. The Division offers a Ph.D. degree in Human Genetics, and its training program is fully accredited in all subspecialties by the American Medical Association. Research interests include molecular cytogenetics, genome organization and regulation, and gene mapping in hereditary disorders. Salary is commensurate with qualifications and experience. Candidates should submit current curriculum vitae, selected reprints, a detailed statement of past experience, a description of future research plans, and the names of three references to: Maimon M. Cohen, Ph.D.; Director, Division of Human Genetics; 655 West Baltimore Street, Room 11–037; Baltimore, MD 21201. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.
Science's  
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European Recruitment Advertising contact:
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Applications and nominations are being accepted for the newly established position of Associate Dean for Research. The Associate Dean will be responsible for research administration and development and will: 1) serve as representative of and advocate for the research community to the Dean COM(VPHLA); 2) provide advice and consultation to chairs and faculty to enhance the research mission of the COM; 3) represent the research community in local, state and federal research-related issues; 4) facilitate development of program projects and consortium research among basic and clinical scientists; and 5) work with investigators and university officials to facilitate initiatives for funding of research and for implementation of funded projects. The Associate Dean will be involved with the planning and construction of major research facilities.

The successful applicant must have: 1) an earned M.D., Ph.D. or D. Sc.; 2) scholarly credentials sufficient for appointment at the rank of full professor; 3) interpersonal skills to successfully work with clinical and basic science faculty; 4) research experience including major funding for at least five years as a principal investigator on nationally competitive awards or intramural grants at a nationally recognized research institution; 5) demonstrated ability to facilitate the research efforts of others and an ability to foster collaborations across institutions, professions, and disciplines; and 6) strong evidence of administrative and leadership ability in the health sciences.

The Quillen COM offers the M.D., Ph.D. and M.S. in Biomedical Sciences, and six residency programs. In association with the Veterans Administration Medical Center and four other community-based hospitals over 2000 beds are available for medical education and clinical research. The college is participating in the Kellogg Foundation Community Partnership Initiative and is a key player in the development of a bio-technology corridor in Northeast Tennessee. ETSU is a regional, state-assisted university with an enrollment of over 12,000 students.

The position is available July 1, 1993. Review of applications will begin February 15, 1993 and continue until the position is filled. Nominations and applications should consist of a letter of application accompanied by a current curriculum vitae and the names of five references with addresses (including E-mail where possible), telephone and FAX numbers. Send to: Dr. Wilkie Bishop, Chair, Search Committee for Associate Dean for Research; James H. Quillen College of Medicine; East Tennessee State University; P.O. Box 70424; Johnson City, Tennessee 37614-0424. AA/EOE.

Applications and nominations are invited for the Chair of the Department of Molecular Biology and Microbiology at Tufts University in Boston. The Department, comprising a dynamic and distinguished research and teaching faculty, is a component of the Schools of Medicine, Dental Medicine, Veterinary Medicine, and the Sackler Graduate School. We seek a candidate with an outstanding record of scholarship, an internationally recognized research program and demonstrated academic leadership, and a commitment to faculty development and teaching of students in the professional health schools and the graduate school.

Letter of application or nominations should be sent to:

Dr. B. David Stoller
Chair, Molecular Biology and Microbiology Search Committee
Office of the Dean, Sackler School of Graduate School of Medicine
138 Harrison Avenue, Boston, MA 02111

Candidates should include a curriculum vitae, list of published research, and a summary of academic accomplishments and administrative experience.

We encourage applications from and nominations of women and minority group members. Tufts University is an Equal Employment Opportunity/Affirmative Action Employer.

Applications and nominations are being accepted for the newly established position of Associate Dean for Research. The Associate Dean will be responsible for research administration and development and will: 1) serve as representative of and advocate for the research community to the Dean COM(VPHLA); 2) provide advice and consultation to chairs and faculty to enhance the research mission of the COM; 3) represent the research community in local, state and federal research-related issues; 4) facilitate development of program projects and consortium research among basic and clinical scientists; and 5) work with investigators and university officials to facilitate initiatives for funding of research and for implementation of funded projects. The Associate Dean will be involved with the planning and construction of major research facilities.

The successful applicant must have: 1) an earned M.D., Ph.D. or D. Sc.; 2) scholarly credentials sufficient for appointment at the rank of full professor; 3) interpersonal skills to successfully work with clinical and basic science faculty; 4) research experience including major funding for at least five years as a principal investigator on nationally competitive awards or intramural grants at a nationally recognized research institution; 5) demonstrated ability to facilitate the research efforts of others and an ability to foster collaborations across institutions, professions, and disciplines; and 6) strong evidence of administrative and leadership ability in the health sciences.

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Research position available in the Department of Anaesthesia, University of Western Ontario. Candidates should have a Ph.D. with postdoctoral experience in cellular or molecular biology. The successful applicant will be expected to develop a vigorous, externally funded research program, a component of which must be anaesthesia related. The University of Western Ontario provides a rich environment for collaborative interaction with scientists in affiliated hospitals and research institutes. Opportunities exist for cross appointments in appropriate basic science departments. Applications consisting of curriculum vitae, statement of research goals, selected reprints and names and addresses of three referees should be submitted to Dr. Adrian W. Gelb, Professor and Chairman, Department of Anaesthesia, University Hospital, 339 Windermere Road, London, Ontario, Canada, N6A 5A5. Preference will be given to candidates who apply before March 31, 1993. This position carries a competitive salary and benefits package. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

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Dr. B. David Stoller
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Tufts University, School of Medicine
138 Harrison Avenue, Boston, MA 02111

Candidates should include a curriculum vitae, list of published research, and a summary of academic accomplishments and administrative experience.

We encourage applications from and nominations of women and minority group members. Tufts University is an Equal Employment Opportunity/Affirmative Action Employer.

The position requires comprehensive experience in designing precision mechanical and/or optical components using CAD/CAM systems. A working knowledge of fabrication and assembly techniques for ultra-high vacuum components, instrumentation, pneumatics, hydraulic systems and controls is required. Actual design experience in synchrotron radiation facility and analytical capabilities regarding stress and thermal assessment would be beneficial. Formal training in Mechanical/Industrial Engineering with a B.S. or M.S. level or equivalent and several years of actual design experience in industrial or research/development environment is also required.

This is a 12 month, 100% time, term appointment with standard university benefits. Salary will be commensurate with education and experience. The position is available in the Spring of 1993. In order to ensure full consideration, nominations must be received by February 26, 1993. Please send letter of application, resume and three letters of reference to Professor Haydn Chen, c/o Donna Jacobs, University of Illinois, Materials Research Laboratory, 104 South Goodwin Avenue, Urbana, Illinois 61801, phone (217) 344-2944.

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Ms.

Assistant Professor

NYU Medical Center, Department of Environmental Medicine is a multidisciplinary department with expertise in molecular biology, toxicology, human exposure assessment, carcinogenesis and epidemiology. We are currently searching to fill 4 new tenure-track or tenured faculty positions, at any level, in the areas of immunology, molecular biology, and chemistry. Successful candidates will be expected to develop an independently-funded research program and to collaborate with existing faculty members in the department.

Interested candidates should send their Curriculum Vitae and three references to Dr. Max Costa, Professor and Chairman, Department of Environmental Medicine, NYU Medical Center, 550 First Ave., New York, NY 10016. Resumes must be received by February 26. EOE, M/F.

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FACULTY POSITION IN MICROBIOLOGY AND IMMUNOLOGY

The Department of Microbiology and Immunology, University of Health Sciences/The Chicago Medical School, invites applications for tenure/tenure-track faculty position at the rank of ASSISTANT, ASSOCIATE OR FULL PROFESSOR. Applicants must have a Ph.D. and/or M.D. degree with solid training, research experiences, and interests in medical virology, molecular biology or immunogenetics. The successful candidate will be expected to bring and establish a strong externally funded research program in the field of Molecular Virology/Immunology and to participate in teaching medical and graduate students. The Department has established strength in the areas of Molecular Biology and Immunology. The salary will be commensurate with qualifications and a negotiable starting date. Applicants should send curriculum vitae, a brief outline of current and future research plans, and the names of at least three references to: Yoon Birm Kim, M.D., Ph.D., Professor and Chairman, Department of Microbiology and Immunology, University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.

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You will isolate and purify recombinant proteins on a large scale for clinical use, as well as conduct small scale process validation studies. Qualifications include a BSMS in Biology, Biochemistry, Chemical Engineering, Microbiology or a related field. Familiarity with various forms of column chromatography and membrane separation operations is essential. Knowledge of cGMPs and analytical techniques such as HPLC and gel electrophoresis is highly desirable. Shift work may be required. BIN-PP

Manufacturing Research Associates (2) - Fermentation

You will assume responsibility for the production of recombinant neurotrophic factors in treating neurological diseases, and perform fermentation and initial separation steps according to current GMPs. A BSMS in Biology, Chemical Engineering, Microbiology or a related field is required together with 1-2 years' experience with GMP production of biologics using recombinant E. coli fermentations. Experience with analytical methods, including SDS-polyacrylamide gel electrophoresis desirable. Shift work required. BIN-FM

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REGENERON Pharmaceuticals, Inc.

Assistant Professor

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In order to enhance the support that our Bioanalytical R&D area provides to the entire company, we are seeking a Senior Scientist who can visualize "the big picture" and propose/implement creative solutions to scientific challenges.

Overall responsibilities include writing experimental designs for the development, qualification and validation of analytical bioassay methods for cytokines in support of new line extensions, fermentation, purification, clinical and pre-clinical toxicology/PK studies; providing technical expertise at the bench level; and ensuring the development and preparation of technical documents for IND and PLA/ELA submission. In addition, you will review and monitor current operating practices in on-line bioassay methods, formulation, and off shore operations to ensure accuracy and compliance to GMP/GLP.

The qualified candidate will have a PhD in Cell or Molecular Biology, Microbiology or a closely related discipline, and 1-4 years of experience in cell biology/culture and GMP operations. The ability to effectively interface with multidisciplinary professionals at a level of sophistication commensurate with state-of-the-art science, and to ensure the group's involvement with other areas of the Company are additional vital attributes. Supervisory experience is preferred.

If your vision of scientific research is broad enough to encompass the many facets of involvement at Schering-Plough, we invite your inquiry. We offer a salary commensurate with your education and expertise, a generous benefits package and significant opportunities to impact a dynamic organization. For confidential consideration, please send your resume, indicating salary history and requirements, to: Personnel Manager, Department PML/DD92-49, Schering-Plough Research Institute, 1011 Morris Avenue, Union, New Jersey 07083. We are an equal opportunity employer.

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RESEARCH BIOLOGIST; to conduct independent research in biological science in conjunction with a multidisciplinary team to develop safety data of therapeutic agents for treatment of central nervous system disorders, diabetes, cytopenia and adaptive responses to ulcer formation, cardiovascular disease, and arthritis, using in vitro and in vivo technologies, statistical analysis, and surgery upon various types and sizes of animals, to determine acute and chronic toxic effects of such drugs; Conduct training of biologists in surgery procedures. Bachelor's degree in Biological Sciences, with 2 years of experience in job offer or 2 years as Teaching Assistant, required. Related experience must include teaching in animal physiology laboratories, training instructors and technicians in animal surgery, and research in neurological, gastrointestinal, and cardiovascular physiology procedures. Master's degree in Biological Sciences or in Physiology must be substituted for experience. Annual salary $40,000. Forty-hour work week (8:00 a.m. to 4:00 p.m.). Send resumes and transcripts to: 7310 Woodward Avenue, # 418, Detroit, MI 48202. Ref. No. 67992. Employer paid ad.

SENIOR PROJECT ENGINEER; process engineering; establish collaborative efforts in research through evaluation of potential bioreactor designs and operating conditions to facilitate transfer of technology for production of biological products (vaccine and therapeutic proteins) from research to manufacturing. Develop, improve and optimize process for existing products through experimentation, proves, implementation, and analysis of factors data. Identify and develop new technologies and implement required changes. Support bio- logical manufacturing; troubleshooting, profit improvement, and installation of improved manufacturing cap- abilities. Requirements: Ph.D. Chemical/Biochemical En- gineering and 1 year of experience with chemical and biochemical engineering background including cell culture, and development of bioreactors for suspension and anchor-dependent cell lines for viral infection and production. Experience must include design and evalua- tion of porous microcarriers for cell culture. Fundamental evaluation of support surfaces, demonstration of improved performance with such surfaces in bioreactors, ability to monitor cell metabolism through use of couler channelizer and glucose/lactate/LDH/NH3 analyzers and ability to monitor target protein products by kinetic based chromogenic assays. Ability to combine funding information and large scale bioreactor data into mathematical model for analysis of cell attachment, growth and substrate consumption. Experience in design, develop- ing, and commercialization of product processes. Doctoral research must have been in an area with appli- cation of large-scale cell culture to industrial manufac- turing setting, with graduate program encompassing extensive practical experience. Experience with cell cul- ture must demonstrate effective integration of acquired industrial and academic experience. Candidate must have published papers in related journals and articles documenting relevant research and have made refereed presentations in formal scientific/engineering conferences. Salary: $4770 per month, 40 hours per week; send curriculum vitae or resume to: Philadelphia Job Bank, 444 North 3rd Street, Philadelphia, PA 19123. J.O. #4488454.

SCIENTISTS—Xenometrics, Inc. is accepting applications for scientists position to develop novel and innovative microfluidic assay technology. Candidate should have a Ph.D. in either Molecular/Cellular Biology with experience in cell culture and transfection or Yeast Genet- ics. Both positions require three years of postdoctoral experience.

RESEARCH ASSOCIATES—We are also accepting applications for several Research Associate positions requiring hands-on experience in molecular biology, yeast biology, or mammalian cell culture. A minimum of B.A./B.S. is required.

Xenometrics, Inc. offers competitive salary and benefits including an attractive employee stock option plan. Please send applications to: Human Resources Depart- ment, Xenometrics, Inc., 1750 30th Street, P.O. Box 252, Boulder, CO 80301.

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Position Open

AIR POLLUTION RESEARCHERS California Air Resources Board is now accepting applications for AIR POLLUTION RESEARCH SPE- CIALIST. Must have a B.S. degree in engineering, math, or physical sciences with relevant research experience and 4 years of experience in research. Salary: $3928 to $4742 per month plus benefits. Inquire before January 29, 1993 by writing to: Air Pollution Research Specialist, 911 I Street, Sacramento, CA 95814 or call (916) 323-1158.

PLANT CONSERVATION BIOLOGIST at re- search facility of non-profit tropical botanic garden. Develop a research program in conservation of Caribbean plants, including subtropical Florida, emphasizing endangered habitats and plant species. Ph.D. (bio- logical sciences, emphasis on botany/ecology), experience in conservation-related research or equivalent, and familiarity with Caribbean plant conservation issues. Spanish fluency preferred. Salary competitive. Send cover letter and resume with three references by March 1, 1993 to: Dr. Jack Fisher, Fairchild Tropical Garden, 11385 Old Cutler Road, Miami, FL 33156.

Position Open

PREDOCTORAL TRAINING OPPORTUNITIES The Departments of Microbiology, Biochemistry and the Kenneth Norris Jr. Cancer Center at the University of Southern California School of Medicine have research opportunities for predoctoral students. Research training programs leading to the Ph.D. in Microbiology or Biochemistry are in the areas of molecular and cellular biology, virology, carcinogenesis, and immunology. Applicants must be permanent residents or U.S. citizens. For more information contact either: Graduate Administra- tion, Department of Microbiology, USC School of Medicine, 1101 Zonal Avenue, Los Angeles, CA 90033-1054. Telephone: 213-342-2373; FAX: 213- 342-1721 or Dr. Peter Jones, Kenneth Norris Jr. Comprehensive Cancer Center, 1411 Eastlake Avenue, Los Angeles, CA 90033-0800. Telephone: 213- 224-6503; FAX: 213-224-6593.

Position Open

RESEARCH GRANTS As part of its efforts to encourage the utilization of alternatives to traditional uses of laboratory animals, the Demeter Fund is soliciting research proposals to develop such methods. Funding up to $40,000 each is available to support individual projects at U.S. universities and research institutions. Special attention will be given to proposals which focus on the production of monoclonal antibodies or other products. Deadline for appli- cations is 20 April 1993, with recipients announced on 15 July 1993. For further information and application instructions contact (mail or FAX only): The Demeter Fund, Suite 204 Noble Plaza, 801 Old York Road, Jenkintown, PA 19046-1685 (FAX: 215-887-2088).

Announcements


Position Open

NATO Advanced Study Institute "MODERN ASPECTS OF SMALL-ANGLE SCATTERING" Centro di Cultura Scientifica "A. Volta" Villa Olmo, Como, Italy May 12-22, 1993 Contact: H. Brumberg, Director of the ASI Department of Chemistry Syracuse University, Syracuse, NY 13244-4100 Telephone: +1315-443-5923; FAX: +1315-443-4070 E-mail: hbrumberg@mailbox.syr.edu

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ANNOUNCEMENTS

MEETINGS

Exxon Valdez Oil Spill Symposium February 2 to 5, 1993, Anchorage, Alaska

A symposium presenting results of studies about the Exxon Valdez oil spill is scheduled for February 2 to 5, 1993. Symposium sponsors are the Exxon Valdez Oil Spill Trustee Council, the University of Alaska Sea Grant College Program, and the American Fisheries Society. The first day's program features summary presentations and will be free; there will be a registration fee of $95 for the technical sessions February 3 to 5.


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