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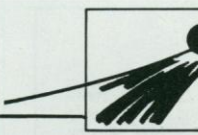
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## POSITIONS OPEN

### ASSISTANT PROFESSORSHIP

The Departments of General Surgery and Tumor Biology at the University of Texas M. D. Anderson Cancer Center are developing a strong program in the molecular aspects of soft tissue sarcoma proliferation and metastasis. A full-time, tenure-track position is available as a joint appointment in these Departments. We are seeking an outstanding individual who has expertise in tumor cell biology, tumor biochemistry, tumor molecular biology or other fields relevant to soft tissue sarcoma proliferation, invasion, and metastasis. Candidates should have a doctoral degree and postdoctoral experience and should demonstrate exceptional potential in research and graduate teaching. Level of appointment will be commensurate with previous experience and accomplishments. Applicants should include curriculum vitae, names and telephone numbers of at least five references and a 1- to 2-page statement of current research activities and future interests to either **Raphael E. Pollock, M.D., Ph.D., Deputy Chairman (Research), Department of General Surgery—Box 106, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030**, or to **Garth L. Nicolson, Ph.D., Chairman, Department of Tumor Biology—Box 108, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030**. *The University of Texas is an Equal Opportunity/Affirmative Action Employer. Smoke-Free Environment.*

## COLBY COLLEGE

is seeking an **Animal Physiologist** to fill a tenure-track position as **ASSISTANT PROFESSOR** of Biology to begin September, 1993. Women candidates will be considered for a **Clare Boothe Luce Assistant Professorship**, which provides dedicated annual research funds, and salaries for undergraduate research assistants. Candidates should have a Ph.D. and a strong commitment to undergraduate education. Applicants should have broad training in animal physiology. A research interest in invertebrate, fish, amphibian, or reptile biology is preferred. Teaching will include comparative physiology, a course in the candidate's discipline, a course for non-biology majors in alternate years and team teaching in the introductory course in some years. An active research program, including supervision of undergraduate research, will be expected. Familiarity with liberal arts colleges, teaching experience, and/or postdoctoral training are desirable.

Please submit a letter of application, statement of teaching and research interests, curriculum vitae, reprints of publications, undergraduate and graduate transcripts, and three letters of recommendation to: **Professor David H. Firmage, Chair, Department of Biology, Colby College, Waterville, ME 04901**. Application review will begin **November 2, 1992**. *Colby College is an Affirmative Action/Equal Opportunity Employer, and encourages applications from minorities and women.*

## ACADEMIC POSITIONS

**ASSISTANT PROFESSORSHIPS.** The Department of Chemistry and Biochemistry of The University of Texas at Austin solicits applications for tenure-track assistant professorships beginning September 1993. Exceptional candidates in all areas of chemistry/biochemistry will be considered. Candidates who have demonstrated outstanding research ability and show promise in teaching should forward curriculum vitae, short descriptions of research plans, and three letters of reference by **November 1, 1992**, to: **Search Committee, Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX 78712**. Please indicate in your letter the subdivision of chemistry or biochemistry which best describes your research and teaching interests.  
*Equal Opportunity/Affirmative Action Employer.*

**BIOCHEMIST/MOLECULAR BIOLOGIST.** The Department of Poultry Science has a 12-month, tenure-track **ASSISTANT PROFESSOR** position for an individual with a Ph.D. in basic sciences and postdoctoral training in molecular biology. Experience with poultry required. Individuals with a commitment to research and teaching should submit curriculum vitae, transcripts, statement of research interests, and three letters of reference to: **Dr. P.S. Hargis, Department of Poultry Science, Texas A&M University, College Station, TX 77843-2472**.

## POSITIONS OPEN

### ASSISTANT PROFESSORS OF BIOLOGY

The University of Texas at San Antonio (UTSA)

Applications are invited for four tenure-track faculty positions at the Assistant Professor level. Requirements include a doctoral degree, postdoctoral experience, a commitment to teaching, and demonstrated research accomplishments in one of the following areas: Immunology, Virology, Molecular/Cell Biology or Computational Neurobiology. Emphasis will be placed on selecting outstanding individuals with research interests relevant to the mission of the Division. Set-up funds and laboratory space are available. The Division of Life Sciences offers the B.S. and M.S. in Biology, an M.S. in Biotechnology and a Ph.D. in Biology.

To apply, send curriculum vitae and a letter of application describing research interests, and have three reference letters sent to: **Dr. Brenda J. Claiborne, Chair, Assistant Professor Search Committee, Division of Life Sciences, The University of Texas at San Antonio, San Antonio, TX 78249**. Initial screening of candidates will begin on November 2, 1992. Applications will be accepted until November 30, 1992.

*UTSA is an Affirmative Action/Equal Opportunity Employer. Minorities and women are especially encouraged to apply.*

The UCLA Department of Pathology invites applications for a faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in Hematopathology, at the affiliated program at Olive View Medical Center. The appointee will have responsibilities in patient care, research and teaching of Residents and Medical Students. Candidates should be board certified and experienced. Submit curriculum vitae and names and addresses of three references to: **George Smith, M.D., Professor and Acting Chair, UCLA Department of Pathology and Laboratory Medicine, 10833 LeConte Avenue, Los Angeles, CA 90024-1732**. *UCLA is an Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT PROFESSOR:** Harvard Medical School, Department of Biological Chemistry and Molecular Pharmacology (BCMP).

The Department of Biological Chemistry and Molecular Pharmacology Harvard Medical School invites applications for three tenure-track positions at the Assistant Professor level.

We seek individuals with strong experimental backgrounds in biochemistry, molecular biology and molecular pharmacology, and a commitment to excellence in research and teaching. We are particularly interested in applicants with expertise in (1) membrane biology, receptor-ligand interactions and signal transduction processes; (2) molecular genetics, approaches to gene regulations and/or development; (3) biophysical and/or bioorganic approaches to structure and mechanisms. Applicants should submit, by 1 November 1992, curriculum vitae, bibliography, statement of research plans and arrange for three letters of recommendation to be sent to: **Professor Christopher T. Walsh, Chairman, BCMP, Harvard Medical School, 240 Longwood Avenue, C1-213, Boston, MA 02115**.

*Harvard University is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.*

**TENURE-TRACK BIOCHEMIST—CARLETON COLLEGE** will have a tenure-track biochemistry position at the **ASSISTANT PROFESSOR** level beginning September 1993. We seek a person with a strong commitment to teaching and the ability to maintain an active research program in biochemistry; start-up funds will be provided. Teaching duties would normally include courses in the areas of biochemistry and organic chemistry. The Chemistry Department has a staff of 7, excellent students, facilities and equipment, and about 25 majors per year. Carleton is recognized for quality undergraduate teaching and student/faculty research. Applications should include a résumé, three letters of reference, graduate and undergraduate transcripts, a two-page discussion of teaching philosophy, and a discussion of research interests. Completed applications will be considered beginning October 16, 1992. Send all materials to: **Professor Jerry Mohrig, Department of Chemistry, Carleton College, Northfield, MN 55057**. *We particularly encourage applications from women and members of minority groups. EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.*



## THE WORLD HEALTH ORGANIZATION

has a vacancy with its Prevention of Environmental Pollution Unit  
within the Division of Environmental Health, in Geneva, for a

### SCIENTIST

(time-limited post for 1 year)

**Duties:** The incumbent, under the supervision of the Medical Officer, Prevention of Environmental Pollution, works on the environmental epidemiology component of the four networks making up the Global Long-Term Programme to strengthen education, training and research in environmental health in developing countries. The specific objectives are: to provide training expertise to the Global Environmental Epidemiology Network concerning health effects of environmental hazards; to establish and strengthen relevant education and training locally in collaboration with Regional Offices and to assist in the WHO promotion of epidemiological research on local environmental health problems.

**Qualifications required:** Degree in medicine, public health or epidemiology from a recognized university and a post-graduate degree in an appropriate subject. Capacity to organize and coordinate research and to teach environmental epidemiology. Administration and organizational skills. Ability to maintain good relations with staff and with national and international organizations. Considerable professional experience (after graduation) mainly in epidemiological research and training at the national level in the area of health effects of environmental health hazards. Excellent knowledge of English or French with a very good knowledge of the other language.

An attractive package of salary, international allowances, social security and statutory entitlements, is offered.

A detailed curriculum vitae with photograph should reach the following office within three weeks of publication of this advertisement quoting reference "MPR/PEP" and the name of this journal:

Personnel Officer  
World Health Organization  
Avenue Appia  
1211 Geneva 27, Switzerland

**APPLICATIONS FROM WOMEN ARE ENCOURAGED**

Only candidates under serious consideration will be contacted.

### Administrator/Scientist

#### Irvine Research Unit in Brain Aging and Alzheimer's Disease University of California, Irvine

The Irvine Research Unit in Brain Aging and Alzheimer's Disease is currently seeking an Administrative Scientist (Academic Coordinator III) to serve as chief academic/administrative director of a basic science/clinical program concerned with the study of successful aging and age-related neurodegenerative diseases, their diagnosis and treatment. The IRU serves as the administrative structure for a program that encompasses an NIA/Alzheimer's Disease Research Center, a State of California Alzheimer's Disease Diagnostic and Treatment Center, several program projects and a comprehensive training program that includes clinical and research opportunities. The mission of the IRU is to bridge the distance between clinical practice and basic neuroscience research in this field on the UCI campus by integrating complementary lines of inquiry in order to increase the potential for advancement in both, and optimize scarce resources.

The ideal candidate would possess postgraduate training in the neurosciences or psychology, hopefully a Ph.D., and have demonstrated experience in accomplishing research objectives, developing research projects, writing research grants and proposals. The incumbent should have strong managerial skills in the areas of contract and grant finance, personnel and supervisory policies, and strategic planning. The development of the IRU's large patient population, state wide patient assessment and research database provides an opportunity for creation of research projects for the candidate with training in computer sciences and/or relational databases. Background and/or experience in the health sciences and sensitivity to issues associated with patients and clinical research would be desirable.

Responsibilities include building collaborative studies, the development and implementation of new programs and research projects, maintaining a network of interactions with external government agencies and privately sponsored support groups, as well as oversight of the administrative and business services of the unit.

Interested persons should send a curriculum vitae, publications and list of three references to:

Dr. Carl Cotman, Director, Irvine Research Unit in Brain Aging  
2205 Biological Sciences II,  
University of California, Irvine  
Irvine, California 92717.

The University of California Irvine is an Equal Opportunity/  
Affirmative Action Employer  
Women and minorities are encouraged to apply.

### Public Health Service

#### Department of Health and Human Services

The National Institute on Aging (NIA) invites nominations and applications for the position of Director, NIA. This is a Civil Service position in the Senior Executive Service with a salary range of \$90,000 to \$112,100 per annum. The person selected may be eligible for various bonuses, awards, and allowances. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The Director is responsible for the policy development and coordination of all institute activities, which include: conducting, fostering, and supporting biomedical, social, and behavioral research and training pertaining to aging processes and common problems of older people.

Further information about the position and qualifications requirements may be obtained by contacting Mr. Barry Rubinstein at (301) 496-6477. An application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography should be submitted to:

Building 31, Room 5A28  
National Institutes of Health  
9000 Rockville Pike  
Bethesda, Maryland 20892.



**APPLICATIONS MUST BE POSTMARKED  
NO LATER THAN OCTOBER 7, 1992**

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental disability, age, or membership or non-membership in an employee organization.

Please note that this is a testing designated position. An applicant tentatively selected for this position will be required to submit to urinalysis prior to appointment to screen for illegal drug use.

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# Wyeth-Ayerst Research

## Opportunities in Clinical Pharmacology

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. We currently have the following opportunities at our modern pharmaceutical research division in Radnor, Pennsylvania:

### Associate Director Physician

Selected individual will be responsible for all aspects of safety monitoring. As medical monitor, this will include working closely with project monitors and pharmacokineticists to develop a scientifically sound and clinically safe developmental plan for projects, including all Phase I protocols, and to compile final safety reports/updates.

Requirements include medical school completion; board certification in a specialty is preferred. Familiarity with the evaluation of study events and laboratory studies is essential. Previous industry experience, including monitoring experience as well as experience in clinical medicine is preferred. **Position #002**

### Assistant Director

Selected individual will be responsible for the technical planning and implementation of clinical pharmacology objectives for each clinical development project. This will include supervising clinical scientists in the planning, generation and implementation of clinical pharmacology protocols. Requirements include a Pharm.D. or a Ph.D. in clinical/biomedical sciences with up to 3 years experience in a clinical drug development environment. Candidate should have specialized knowledge in one or more areas of clinical or preclinical science and should have the capability to analyze and resolve complex technical issues. **Position #003**

Wyeth-Ayerst offers an attractive salary, comprehensive benefits package and a choice environment on our 20-acre corporate campus. For immediate consideration, forward your resume/C.V. and salary history to: **Wyeth-Ayerst Research Personnel, Insert Position #, P.O. Box 8299, Philadelphia, PA 19101**. Equal Opportunity Employer, M/F/D/V responses encouraged.



## Analytical Chemists

The Procter & Gamble Company has immediate openings for Ph.D. analytical chemists in its drug discovery and product development divisions at laboratories based in Cincinnati, Ohio and Norwich, New York. The positions involve working closely with project teams that are developing and evaluating new therapeutic agents and require developing and validating methods to analyze pharmaceuticals in a variety of matrices (drug substances, formulations, ultra-trace drugs/mediators in biofluids). Analytical chemists in the drug discovery divisions provide upstream support for model development, mechanism-of-action studies and preclinical/clinical programs. Positions in the product development divisions focus on support for later stage programs, i.e., clinical programs, new product development, lab-to-plant technology transfer and support of business claims. These openings require a Ph.D. degree in analytical chemistry or biochemistry and experience using a variety of techniques (chromatography, electrophoresis, immunoassays, wet chemistry) and instrumentation. An understanding of GLP/GMP systems,

strong problem-solving skills, the ability to set and achieve goals, good communication skills and teamwork skills are also desired.

Procter & Gamble is a world leader in the research, development, manufacture and marketing of a wide variety of consumer products in the health and beauty care, food and beverage, laundry and cleaning and paper products areas. Annual sales exceed \$30 billion, and the R&D budget is over \$800 million.

We offer excellent opportunities for professional growth, with significant expansion under way in the health care area. We provide competitive salaries and benefits packages, placing us among the top 5% of U.S. firms.

Candidates must be presently authorized to work in the U.S. on a full-time basis. Resumes, with a list of publications and references, should be sent to:

**Dr. N.G. Howell, Dept. LC2**  
**The Procter & Gamble Company**  
**P.O. Box 398707, Cincinnati, OH 45239-8707**

*No Agency referrals, please. Allow 6-8 weeks for response. An Equal Opportunity Employer.*

# Procter & Gamble



## POSITIONS OPEN

### ANATOMIST/CELL BIOLOGIST

The Department of Anatomy and Cell Biology, University of Minnesota, Duluth, School of Medicine, is seeking applications to fill a 12-month, tenure-track, Anatomist/Cell Biologist position at the **ASSISTANT PROFESSOR** level. The anticipated start-up date is July 1, 1993. The individual will participate in the teaching of microscopic, developmental and/or gross anatomy to first-year medical students. Opportunities exist to participate in both graduate and undergraduate education in the area of cell/molecular biology. The individual will be expected to develop an externally funded research program in her/his area of expertise. Excellent opportunities exist at the School of Medicine for research collaboration, especially in the areas of cardiovascular, developmental/toxicological, or neuroscience problems. The qualified applicant must have a Ph.D. and/or M.D. with emphasis on research using cellular/molecular biological techniques. Two or more years of postdoctoral experience in cell/molecular biology is desirable. The deadline for receipt of applications is December 7, 1992. Interested individuals should submit an application (including curriculum vitae) and three letters of recommendation to: **Lillian A. Repesh, Ph.D., Chair, Search Committee, Department of Anatomy and Cell Biology, University of Minnesota, Duluth, School of Medicine, 10 University Drive, Duluth, MN 55812.**

*The University of Minnesota is an Equal Opportunity Educator and Employer.*

### CELL PHYSIOLOGIST

The Department of Anatomy and Physiology in the College of Veterinary Medicine invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level; appointment begins 1 July 1993. Candidates should have an extramurally funded research program or have an established research program with considerable potential for securing funding. Preference will be given to candidates who have a strong interest in professional and graduate instruction, who can contribute to a team-taught cell physiology course for veterinary students, and who are using contemporary approaches to study regulatory mechanisms involved in immunophysiological or cardiopulmonary systems. DVM and/or Ph.D. required.

Applications should include curriculum vitae, a statement of research and teaching interest, three letters of recommendation and reprints of three representative publications. Applications will be received until December 1, 1992. Send applications and materials to: **Dr. Jon D. Dunn, Professor and Department Head, Department of Anatomy and Physiology, VMS 228, Kansas State University, Manhattan, KS 66506. Kansas State University is an Equal Opportunity Employer/Affirmative Action Employer.**

### MOLECULAR BIOLOGIST

Applications are being accepted for a tenure-track **ASSISTANT PROFESSOR** position in the Department of Veterinary Biomedical Sciences, College of Veterinary Medicine, at the University of Missouri-Columbia. Requirements include the DVM and/or Ph.D. or equivalent degree. The successful candidate must have proven expertise in molecular biology technologies and have extramural research support or demonstrate exceptional potential for the development of a vigorous, sustained research program. Preference will be placed on those whose research utilizes a molecular approach to cardiovascular and/or muscle membrane problems, although outstanding applicants in other related aspects of molecular biology are encouraged to apply. A joint appointment is possible with the Dalton Research Center, a University unit emphasizing cardiovascular research at the molecular, cellular, and systemic level. Teaching responsibilities involve lectures in molecular biology to first-year veterinary and graduate students. *Women and minorities are encouraged to apply.* Applicants should send curriculum vitae, a statement of professional goals, and the names of four references by October 1, 1992 to:

**Dr. Calvin C. Hale  
Veterinary Biomedical Sciences  
College of Veterinary Medicine  
University of Missouri-Columbia  
Columbia, MO 65211**

*The University of Missouri is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### FACULTY POSITION IN CLINICAL PHARMACOLOGY

Applications are invited for the position of **RESEARCH ASSISTANT PROFESSOR**. Primary responsibilities will include teaching and research. Applicants must have an M.D. or M.D./Ph.D. with experience in cancer research, drug metabolism, and toxicology as evidenced by publications in high quality journals. Salary commensurate with qualifications and experience. Send curriculum vitae to: **Dr. Robert B. Diasio, Professor and Chairman, Department of Pharmacology, University of Alabama at Birmingham (UAB), UAB Station, Box 600, VH 101, Birmingham, AL 35294-0019. UAB is an Equal Opportunity/Affirmative Action Employer.**

### ASSISTANT PROFESSOR MEMBRANE BIOLOGY University of California, Santa Barbara

Applications are invited for a tenure-track faculty position in the Department of Biological Sciences. An integrative approach to membrane biology using modern molecular biology, biochemistry, structural biology, biophysics or physiology is desired. Areas of interest include, but are not limited to: membrane-cytoskeletal interactions, membrane turnover and biogenesis, protein trafficking, ion channels, or membrane transport. Only applicants with a strong research record and the ability to develop extramurally supported research programs will be considered. Teaching responsibilities will include undergraduate teaching in cell biology/physiology and graduate teaching in the area of specialty. Ph.D. degree or equivalent and postdoctoral experience are required. Interested candidates should arrange to have curriculum vitae, a statement of research interests, 3 to 5 relevant publications and three letters of reference sent to: **Chairman, Department of Biological Sciences, University of California, Santa Barbara, CA 93106, by October 30, 1992 or until the position is filled. The University of California is an Affirmative Action/Equal Opportunity Employer.**

### EVOLUTIONARY BIOLOGIST ECOLOGIST STATE UNIVERSITY OF NEW YORK AT STONY BROOK

The Department of Ecology and Evolution at Stony Brook is seeking applicants for two tenure-track positions to begin in the Fall of 1993 at the **ASSISTANT PROFESSOR** level. Applicants must have a Ph.D. degree. The first position is for an evolutionary biologist. We are interested in finding candidates with research interests which include experimental molecular, physiological, or quantitative genetic approaches to the study of evolution, as well as evolutionary biologists with interest in plant or animal development. Theoretical population geneticists are also encouraged to apply.

The second position is for an ecologist. We are seeking applicants with research interests in experimental ecology, conservation ecology, or global ecology, but will consider individuals in other areas as well.

Potential applicants should identify which position they are applying for in their cover letter, and send current curriculum vitae, statement of research interests, up to five selected reprints, and have three letters of recommendation sent by November 15, 1992 to either the **Evolutionary Biologist Search Committee or Ecology Search Committee, Department of Ecology and Evolution, State University of New York, Stony Brook, NY 11794-5245. SUNY-Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer.**

### THE UNIVERSITY OF CHICAGO THE DEPARTMENT OF ECOLOGY AND EVOLUTION

**ECOLOGIST.** The Department of Ecology and Evolution at the University of Chicago seeks to hire an ecologist with interests in plant, animal or microbial species for a faculty position at the **ASSISTANT PROFESSOR** level. To apply please send curriculum vitae, reprints, and a statement of research interests, and have three letters of recommendation sent by 1 November 1992 to: **Chair, Ecology Search Committee, Department of Ecology and Evolution, The University of Chicago, 1101 East 57th Street, Chicago, IL 60637. Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

**FACULTY POSITION, UNIVERSITY OF CONNECTICUT HEALTH CENTER.** Applications are invited for a tenure-track **ASSISTANT PROFESSORSHIP** in the Department of BioStructure and Function. Responsibilities include teaching of dental, medical and graduate students. Applicants must have a research doctorate and a strong research program in which excellence and independence have been demonstrated. The Department's interests include areas within the neurosciences, developmental biology, tissue repair and regeneration, macromolecular structure and function, and cell/matrix interactions. Applications containing curriculum vitae, a list of publications, three representative publications, a description of research interests, and three references should be sent to: **Dr. Marvin L. Tanzer, Head, Department of BioStructure and Function, University of Connecticut Health Center, Farmington, CT 06030-3705.** Closing date for applications is November 30, 1992. *An Affirmative Action/Equal Opportunity Employer, M/W/H.*

**CONSERVATION BIOLOGY/ECOLOGY: ASSISTANT PROFESSOR.** The Board of Studies in Environmental Studies at the University of California, Santa Cruz (UCSC), is seeking applicants for a tenure-track position in ecology, with expertise in spatial and landscape level processes and experience in multi-species interactions using GIS. Candidates are expected to have completed or to soon complete a Ph.D. in Biology, Geography or a closely related field. A letter of application, three letters of recommendation and curriculum vitae listing two additional reviewers should be sent to: **Michael Soule, Environmental Studies Board, University of California, Santa Cruz, CA 95064. Refer to 262-923. CLOSING DATE: October 15, 1992.** Appointment contingent upon availability of funds. *UCSC is an Affirmative Action/Equal Opportunity Employer.*

**BOTANY, TEMPORARY ASSISTANT PROFESSOR** teaching responsibilities include plant general biology, anatomy, physiology and systematics, and a nonmajors course in general biology. Ph.D. in appropriate field required. Salary commensurate with qualifications and experience. Position available 14 January 1993. Send letter of application, curriculum vitae, official transcripts, and three letters of recommendation to: **Botany Search Committee, Station #33, Eastern New Mexico University (ENMU), Portales, NM 88130.** Screening will begin 30 November 1992 and continue until the position is filled. *ENMU is an Affirmative Action/Equal Opportunity Employer.* New Mexico is an open records state; therefore, it is the policy of the University to reveal to the public the identities of the applicants for whom outside inquiries have been made or for whom on-campus interviews are scheduled.

### ASSISTANT PROFESSOR OF CELL BIOLOGY

The Department of Cell Biology, University of New Mexico (UNM) School of Medicine, is offering a tenure-track appointment at the level of Assistant Professor to an investigator who is studying molecular mechanisms of replication, gene expression, or pathogenesis of human retroviruses. Candidates are required to hold a Ph.D. in a related field of study and should have two or more years of postdoctoral training. Candidates will be expected to demonstrate evidence of originality and the ability to establish an effective and competitive research program, and possess effective teaching skills for participation in Graduate training programs. The Department of Cell Biology, housed in the UNM Cancer Center, currently consists of 10 full-time faculty working in areas of molecular virology and epidemiology, hematopoietic development and oncogenesis, molecular genetics of bacterial and viral gene expression and DNA replication, RNA processing, and biomolecular structure and function. The Cancer Center is located within the UNM Medical Center, which includes the School of Medicine, Schools of Pharmacy and Nursing, and UNM Hospital. Candidates should send curriculum vitae, a brief description of research plans, and three letters of reference to: **Melinda Guerrero, Search Coordinator, University of New Mexico School of Medicine, Department of Cell Biology, Albuquerque, NM 87131-5226.** Deadline for receipt of applications is 1 December 1992.

*The University of New Mexico is an Affirmative Action/Equal Opportunity Employer.*

## VICE PRESIDENT FOR RESEARCH AND GRADUATE STUDIES

SUNY Stony Brook invites nominations and applications for the position of Vice President for Research and Graduate Studies.

The Vice President for Research and Graduate Studies is the senior academic administrator who is responsible for all aspects of post-baccalaureate education and for the advancement of the University's research mission. The Vice President, who reports to the Provost (Vice President for Academic Affairs and Chief Academic Officer), is the principal advisor to the Provost on all matters that pertain to research and graduate studies. Attending meetings of the President's Cabinet, he/she is the major advocate both within and outside the University on research and graduate matters. As the administrator responsible for encouraging and facilitating research proposals throughout the campus, the Vice President should also be familiar with the objectives and procedures of the major public and private funding agencies that support scholarly and creative activities. Working closely with the Graduate Council, the Vice President is responsible for the direction of the Graduate School, for the formulation and implementation of its policies, and for monitoring the quality of graduate programs.

Qualifications include a Ph.D., a record of academic distinction and scholarly achievement, as well as evidence of outstanding administrative capabilities. We particularly wish to encourage applications from women and members of minority groups. The position will be available on July 1, 1993.

The University enrolls 17,000 students, including 5,900 graduate and professional students, and consists of a College of Arts and Sciences, a College of Engineering and Applied Sciences, The W. Averell Harriman College for Management and Policy, and a Health Sciences Center that includes Schools of Medicine, Dental Medicine, Nursing, Social Welfare and Allied Health Professions, a 540-bed University Hospital and a 350-bed Veterans' Home. There are currently about 80 graduate programs. In 1991, sponsored research expenditures amounted to 80 million dollars.

In order to receive maximum consideration, applications should be sent by November 1, 1992 to: Chairman, Search Committee, Vice President for Research and Graduate Studies, Office of the Provost, SUNY at Stony Brook, Stony Brook, New York, 11794-1401.

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# STONY BROOK

## Postdoctoral Research Fellowships

The Pathology and Experimental Toxicology Department of the PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company is seeking qualified persons for postdoctoral fellowships in biochemical toxicology and genetic toxicology.

The BIOCHEMICAL TOXICOLOGY fellowship will entail investigation of mechanisms of nephrotoxicity induced by platinum-based chemotherapeutic agents. Applicants should possess a Ph.D. in toxicology or a related discipline and should have experience with in vitro techniques and tissue culture methodology. Additional experience with real transport studies, atomic absorption spectrometry, auto radiography, use of fluorescent probes and/or confocal microscopy is desirable.

The GENETIC TOXICOLOGY fellow will investigate new approaches to assessing genotoxicity in multiple organs in vivo utilizing a variety of endpoints (DNA strand breakage, mutation induction, chromosome damage, aneugenicity). The technologies utilized will include biochemical and molecular techniques as well as more classical methodologies. Qualifications include a Ph.D. or M.D. and experience with in vivo/in vitro genotoxicity. Experience with molecular biology techniques such as in situ hybridization, PCR and use of DNA probes is desirable but not required.

Fellowships are for one year, renewable for a second year with mutual agreement, and include a competitive salary, comprehensive benefits package and relocation assistance.

Interested individuals should send their resume and list of references to **Box JDM-PD915, Human Resources Department, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105**. Candidates may also fax their resumes to (313) 996-7617 to the attention of **Box JDM-PD915**. Please specify the fellowship being applied for. "Smoke-Free Work Environment"



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## POSITIONS OPEN

### FACULTY OPENING IN PHYSICS University of California at Berkeley

The Physics Department of the University of California at Berkeley, pending budgetary approval intends to make one or more faculty appointment(s) at the tenure-track **ASSISTANT PROFESSOR** level effective July 1 1993. In exceptional circumstances appointment at a more senior level will be considered. We encourage applications from both theorists and experimentalists in condensed matter physics (including low temperature physics), astrophysics and space physics, particle physics, atomic physics, plasma physics and non-linear dynamics, and newly emerging subfields of physics.

Please send curriculum vitae, bibliography, statement of research interests, and a list of references to: **Professor Herbert Steiner, Chairman, Department of Physics, Berkeley, CA 94720**, before November 13, 1992. Applications submitted after the deadline will not be considered. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### CELLULAR/MOLECULAR TOXICOLOGIST DEPARTMENT OF PHARMACOLOGY UNIVERSITY OF TORONTO

The Department of Pharmacology, Faculty of Medicine, University of Toronto invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** from individuals well-qualified to establish an independent first-class research program employing a cellular or molecular approach to understanding mechanisms of toxicity of drugs or other foreign chemicals. Successful applicants will have promise in teaching as well as in research and will be expected to teach some portion of pharmacology or toxicology to students in undergraduate, graduate, or professional (medical/dental) courses and to train graduate students. Qualifications should include a Ph.D. or M.D. degree with postdoctoral research experience. The starting date is July 1993 with some flexibility if necessary. Applications should include complete curriculum vitae, a letter stating current and intended research interests and the names of at least three referees. Apply before 15 December 1992 to: **Dr. Allan B. Okey, Professor and Chair, Department of Pharmacology, Medical Sciences Building, University of Toronto, Toronto, Ontario, Canada M5S 1A8.**

*The University of Toronto encourages applications from both women and men.*

### ASSISTANT PROFESSOR OF CHEMICAL ENGINEERING MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)

Applicants are invited for a junior-level, tenure-track faculty position in the Department of Chemical Engineering at the Massachusetts Institute of Technology. Applicants should have a Ph.D. in Chemical Engineering or a closely related field, should have demonstrated excellence in academic research, and should have a strong interest in teaching graduate and undergraduate chemical engineering. Send résumé including the names of at least three references, graduate transcripts and a description of research interests to: **Dr. Robert A. Brown, Head, Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139.** Material should be received by January 1, 1993. *MIT is an Equal Opportunity, Affirmative Action Employer.*

Virginia Commonwealth University's Department of Pharmacology and Toxicology announces a tenure-track **ASSISTANT PROFESSOR** position in **MOLECULAR PHARMACOLOGY**. Applicant must have a Ph.D. or its equivalent in pharmacology or a closely related discipline and at least three years of relevant postdoctoral research experience. Must have an outstanding record of research accomplishments and, preferably, experience in using modern molecular biological approaches. Applicant will be expected to establish an independently funded research program and to support the department's graduate and professional school teaching mission. Send curriculum vitae, brief research proposal and the names and telephone numbers of three references by November 1, 1992 to: **Dr. George Kunos, Chair Designate, Box 613, MCV Station, Richmond, VA 23298-0613.** Complete position description available upon request. *Virginia Commonwealth University is an Equal Employment Opportunity/Affirmative Action Employer and encourages women, minorities and persons with disabilities to apply.*

## POSITIONS OPEN

### BRANDEIS UNIVERSITY NEUROSCIENCE

The Center for Complex Systems, Department of Biology and Rosensiel Basic Medical Sciences Research Center seek a tenure-track **ASSISTANT PROFESSOR** with interest and experience in the regulation of gene expression in the nervous system. Areas of interest include, but are not restricted to, control of the expression of neurobiologically important proteins related to neuronal development, plasticity and disease. Applicants should send curriculum vitae and statement of research interests, and arrange for three letters of recommendation to be sent directly to:

**Neuroscience Search  
Center for Complex Systems  
Brandeis University  
Waltham, MA 02254**

The deadline for receipt of applications is 31 October, 1992. *Brandeis University is committed to Equal Opportunity and welcomes applications from underrepresented groups.*

### TENURE-TRACK POSITION DEPARTMENT OF BIOCHEMISTRY WRIGHT STATE UNIVERSITY

The Department of Biochemistry at Wright State University invites applications for a 12-month, tenure-track, faculty position at the **ASSISTANT PROFESSOR** level with an appointment in both the School of Medicine and the College of Science and Mathematics. Candidates with research expertise in any area of contemporary biochemistry will be considered.

Current research interests of the department are grouped into three areas: macromolecular mechanisms, including protein and membrane structure-function relationships; molecular genetics and the regulation of transcription and replication in eukaryotes; and the application of nuclear magnetic resonance to biomedical research.

A Ph.D. in Biochemistry or a related field and two or more years of postdoctoral experience are required for appointment. The successful applicant will be expected to develop an extramurally-funded independent research program as well as to participate in the department's undergraduate, graduate (M.S. and Ph.D.), and professional (M.D.) teaching programs.

Interested applicants should submit curriculum vitae, a focused research plan, and the names of three references to: **Dr. Lawrence J. Prochaska, Chairperson, Faculty Search Committee, Department of Biochemistry, Wright State University, Dayton, OH 45435.**

*Candidates from groups under-represented in academic science are encouraged to apply.*

Applications will be accepted until the position is filled; however, those received prior to December 1, 1992 will be assured of full consideration.

*Wright State University is an Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITION Molecular Neurobiology Department of Neurobiology and Behavior State University of New York at Stony Brook

The Department of Neurobiology and Behavior of SUNY at Stony Brook is seeking a candidate for a tenure-track state-funded position as an **ASSISTANT PROFESSOR** beginning with the 1993-1994 academic year. Area of interest for the successful candidate will be in *molecular neurobiology*. The applicant will be expected to teach in the undergraduate and graduate program. This position is a 10-month appointment in the Division of Biological Sciences. The Department, which currently consists of 18 members, is slated to grow to at least 22 full-time faculty within the next five years.

All applicants should have a minimum of two years of postdoctoral experience. Candidates will be expected to develop a vigorous, independent research program. Ample space and start-up funds will be provided. Applicants should submit curriculum vitae, statement of research interests, any information relevant to the applicant's ability to teach, and the names and addresses of at least three references to: **Search Committee B, c/o Dr. Lorne M. Mendell, Chairman, Department of Neurobiology and Behavior, State University of New York, Stony Brook, NY 11794-5230.** The closing date for applications is November 30, 1992.

*SUNY Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer.*

## POSITIONS OPEN

### EVOLUTIONARY BIOLOGIST UNIVERSITY OF VIRGINIA

The Department of Biology at the University of Virginia seeks an individual of outstanding promise to fill a new tenure-track position of **ASSISTANT PROFESSOR** as we build strength in the broadly defined field of evolutionary biology. The successful candidate will be expected to have an innovative research program and to participate in teaching of graduate and undergraduate students. Mountain Lake Biological Station, a facility of the department, offers research opportunities and colleagues in addition to those in Charlottesville. Candidates should submit curriculum vitae, the names and addresses of three references, and statements of teaching and research interests by November 1, 1992 to: **Henry M. Wilbur, Ecology Search, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, VA 22903-2477.** *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

**BAYLOR UNIVERSITY—ORGANIC CHEMISTRY FACULTY POSITION.** The Department of Chemistry invites applications for a tenure-track organic faculty position at the **ASSISTANT PROFESSOR** level, beginning Fall 1993. A Ph.D. in chemistry is required and postdoctoral experience is desirable. The successful applicant will be expected to demonstrate excellence in teaching at the undergraduate and graduate levels and to establish an independent research program capable of attracting graduate students (M.S. and Ph.D.) and extramural funding. Applicants should submit a letter of application, curriculum vitae, including a list of publications, and a description of research interests and plans, and have three letters of recommendation sent to: **Professor Stephen L. Gipson, Department of Chemistry, P.O. Box 97348, Baylor University, Waco, TX 76798.** The deadline for receipt of all materials is October 23, 1992. Baylor is a Baptist university affiliated with the Baptist General Convention of Texas. *As an Affirmative Action/Equal Employment Opportunity Employer, Baylor encourages minorities, women and persons with disabilities to apply.*

### Harvard University ASSISTANT PROFESSOR CELLULAR AND DEVELOPMENTAL BIOLOGY (CDB)

The Department of Cellular and Developmental Biology intends to make an assistant professor appointment (entry level) available starting either September 1993 or September 1994. Our department covers a broad range of topics in cellular biology, developmental biology and molecular genetics. We are seeking outstanding candidates in any of these fields. We strongly encourage applications from women and minority groups. Applications should include curriculum vitae, reprints of publications, and a statement of present and future research plans (1-3 pages). Complete applications and three letters of recommendation, *solicited by the applicant*, should be received no later than October 15, 1992 by: **CDB Search Committee, Cellular and Developmental Biology, Harvard University, 16 Divinity Avenue, Cambridge, MA 02138; telephone (617) 495-2327.** *Harvard University is an Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY**—West Virginia University invites applications for a tenure-track position at the Assistant Professor level. Applicants should have a Ph.D. in toxicology, pharmacology, or related discipline and postdoctoral research experience. Research area of particular interest is toxicology/signal transduction, but other areas of cellular and molecular pharmacology/toxicology will be considered. A background and teaching interest in toxicology are also desirable. Research accomplishments and evidence of ability to develop independent, externally funded research will be prime considerations. The first cycle of review will begin November 2, 1992. Send curriculum vitae, statement of future research plans, and two letters of reference sent to: **Dr. M. J. Reasor, Department of Pharmacology and Toxicology, West Virginia University, P.O. Box 9223, Morgantown, WV 26506-9223.** *An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

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## Director

### Institute of Physical Research and Technology (IPRT) Iowa State University

Iowa State University is seeking candidates to fill the position of Director of the Institute for Physical Research and Technology (IPRT). The Director, who reports to the Provost, is responsible for administering a variety of centers and programs whose broad mission is to promote interdisciplinary research and technology transfer in the physical sciences and engineering. Responsibilities include coordination among the eleven IPRT centers and the Ames Laboratory (a contract agency funded by the U.S. Department of Energy), as well as coordination with programs administered elsewhere within the university. Among the centers administered by IPRT are the Center for Nondestructive Evaluation, the Center for Advanced Technology Development, and the Iowa Center for Emerging Manufacturing Technologies. The Director of IPRT appoints the directors of IPRT centers and consults with the Provost and President with respect to the appointment of the Ames Lab Director; conducts periodic evaluations of all IPRT programs and recommends their continuance or discontinuance; recommends the establishment of new centers; works with federal, state and private entities to secure funding for the centers; and recommends to the Provost strategies for the development of research and technology transfer related to the IPRT missions.

The successful candidate must possess the Ph.D. in a physical science, engineering or related field. Candidates should have at least three years experience in management of a research program that included several principal investigators, as well as experience with a variety of research funding sources and a record of individual research and scholarship equivalent to that of a senior professor.

Persons wishing to be considered for the position or wanting to nominate a candidate should write to:

Chair, IPRT Director Search Committee  
Office of the Provost  
Iowa State University  
107 Beardshear Hall  
Ames, Iowa 50011

Applications should include a letter, a complete curriculum vitae, and the names of five references. Review of applications will begin on October 15, 1992, and the position will be available January 1, 1993, or as soon thereafter as the successful candidate is available. Women and minorities are especially encouraged to apply.

Iowa State University of Science and Technology is an affirmative action/equal opportunity employer.

Department of Health and Human Services  
Public Health Service  
National Institutes of Health  
National Heart, Lung, and Blood Institute

## DIRECTOR

### DIVISION OF HEART AND VASCULAR DISEASES

Opening Date: August 26, 1992 / Closing Date: October 26, 1992  
(All applications must be post-marked by the closing date).

The National Heart, Lung, and Blood Institute is recruiting a Director for its Division of Heart and Vascular Diseases. The Director will coordinate the planning, management, and evaluation of a major program of basic and targeted research, clinical trials, and national cardiovascular centers. The Division itself is divided into two major programs, with a staff of approximately 72 employees and a current annual budget in excess of \$450 million. Salary range from \$90,000 to \$104,000 per year depending on qualifications. May be eligible for various bonuses, awards, and allowances.

Mandatory professional/technical qualifications are a medical doctorate, and research and/or clinical experience in the field of cardiology or cardiovascular diseases. Mandatory managerial/ executive qualifications include evidence of management of a basic or clinical research program.

Please submit an Application for Federal Employment (SF-171), Curriculum Vitae and Bibliography to:

Susan McGowan, Personnel Management Specialist  
Building 31, Room 5A28  
National Institutes of Health  
National Heart, Lung, and Blood Institute  
9000 Rockville Pike  
Bethesda, Maryland 20892

Additional information may be obtained from:  
Dr. Barbara Packard, Chairman  
Director, DHVD Search Committee, on (301) 496-6331.



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NYU  
Medical  
Center

# Assistant Research Scientist

A postdoctoral position is available in the laboratory of Dr. Xiao-Hong Sun to study the role of helix-loop-helix transcription factors in differentiation of hematopoietic and lymphoid cells. Candidates who have recently received a PhD degree in molecular biology, cell biology or biochemistry are encouraged to apply. Salary is commensurate to experience.

Interested individuals should send curriculum vitae, a description of past research and names of three references to Maha Singh, Professional Recruiter, NYU Medical Center, 550 First Avenue, NY, NY 10016. EOE, MF.



## POSITIONS OPEN

### FACULTY POSITIONS IN MOLECULAR PHYSIOLOGY University of North Carolina at Chapel Hill

The Department of Physiology at the University of North Carolina at Chapel Hill (UNC-CH) invites applications for two tenure-track faculty positions at the ASSISTANT PROFESSOR level from candidates with a Ph.D., M.D. or the equivalent degree and at least two years of postdoctoral experience. We seek individuals who will establish vigorous research programs investigating physiological processes at the molecular level and participate effectively in the department's graduate and medical student teaching programs. To complement existing strengths in the department, candidates studying the nervous, cardiovascular, or endocrine systems will be given special consideration, although outstanding applicants with research interests in other areas will also be considered. Send complete curriculum vitae, a brief description of research interests and the names, addresses, and telephone numbers of three referees to: **Stanley C. Froehner, Chairman, Department of Physiology, University of North Carolina, Chapel Hill, NC 27599-7545.** UNC-CH is an Affirmative Action/Equal Opportunity Employer. Minorities and women are especially encouraged to apply.

**ASSISTANT PROFESSOR, Wildlife/Natural Resources Systems Ecologist.** Entry level position in wildlife science/ecology with emphasis on systems modeling. Tenure-track, 12-month position; Ph.D. required. Must demonstrate potential for obtaining external funding, publishing research results, interdisciplinary cooperation, working with public and private sectors and communicating effectively before an audience. Initial appointment about 70% research and 30% teaching (about the equivalent of three, 3-credit courses per year). Send letter of application; résumé; list of publications; unofficial transcripts; and name, address and telephone number of three references to: **Dr. Richard A. Cole, Search Committee Chairman, Box 30003, Department 4901, New Mexico State University (NMSU), Las Cruces, NM 88003-0003.** (Telephone: (505) 646-1346) by October 30, 1992. NMSU is an Equal Employment Opportunity/Affirmative Action Employer.

### POSITIONS IN EXPERIMENTAL PSYCHOLOGY AT DUKE UNIVERSITY

The Department of Experimental Psychology of DUKE UNIVERSITY has a non-tenure-track ASSISTANT RESEARCH PROFESSOR position beginning in the area of experimental and theoretical analysis of animal learning. This three-year appointment is renewable for an additional two years. Duties include a regular teaching schedule and collaboration with Professor John E. R. Staddon's research group. Applicants should send curriculum vitae, four or fewer publications, and names of three referees to: **Dr. J.E.R. Staddon, Department of Experimental Psychology, Duke University, Durham, NC 27706** by December 1, 1992. Duke is an Equal Opportunity/Affirmative Action Employer.

**BIOCHEMISTRY TENURE-TRACK POSITION.** The Department of Chemistry at the College of William and Mary is seeking applications for a tenure-track appointment with the rank of ASSISTANT PROFESSOR beginning Fall 1993. This permanent position is made possible by a grant from the Howard Hughes Medical Institute for program development in biochemistry and molecular biology. The successful applicant must possess a Ph.D., the ability and sustained desire to conduct research with advanced undergraduates and Master's students, and the competence and interest in developing and teaching courses in biochemistry. Postdoctoral experience is highly desirable. The College of William and Mary is a state-supported institution with a highly selective admissions policy. The Department has a tradition of substantial extramural research funding. Applicants should send a résumé, transcripts, and a description of research interests and plans, and should arrange to have not fewer than three letters of reference sent to: **Professor S.K. Knudson, Chair, Department of Chemistry, College of William and Mary, P.O. Box 8795, Williamsburg, VA 23187-8795.** Review of applications will begin October 19, 1992 and will continue until the position is filled.

The College of William and Mary is an Affirmative Action/Equal Opportunity Employer which welcomes and encourages applications from women and minorities.

## POSITIONS OPEN

### FACULTY POSITION IN MEDICINE (CARDIOLOGY)/PHYSIOLOGY AND BIOPHYSICS CASE WESTERN RESERVE UNIVERSITY

The Departments of Medicine (Cardiology) and Physiology and Biophysics invite applications for tenure-track positions at the ASSISTANT PROFESSOR level. M.D., M.D./Ph.D. as well as Ph.D. candidates with strong credentials in an area of cell physiology and/or molecular biology with a cardiovascular orientation are encouraged to apply. Terms are highly competitive and appointments provide excellent opportunities to develop strong, independent research programs in newly built state-of-the-art facilities within an expanding research community. Submit curriculum vitae, brief statement of present and proposed research interest, representative reprints, and names of four references to: **Marc D. Thames, M.D., Division of Cardiology, University Hospitals of Cleveland, 2074 Abington Road, Cleveland, OH 44106.** The University is an Equal Opportunity/Affirmative Action Employer.

### FACULTY POSITION

The Department of Biochemistry at UMDNJ-Robert Wood Johnson Medical School invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. Candidates should have a Ph.D., M.D. or equivalent, postdoctoral training and significant research accomplishments in molecular biology, biochemistry, cellular or developmental biology. Successful candidates should establish a vigorous research program, in addition to teaching medical and graduate students. Send curriculum vitae, reprints, a statement of research accomplishments and plans, and arrange to have 3 to 4 letters sent to: **Dr. Masayori Inouye, Department of Biochemistry, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635.** UMDNJ, NJ's university of the health sciences, is an Affirmative Action/Equal Employment Opportunity Employer, M/F/H/V, and a member of the University Health System of New Jersey.

### UMD New Jersey

### UNIVERSITY OF FLORIDA COLLEGE OF MEDICINE DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

A tenure-track ASSISTANT PROFESSOR position is open for applicants having a Ph.D. and/or M.D. degree with at least two years of postgraduate experience. The successful candidate will be expected to develop an independent research program, teach professional and graduate students, and contribute to other academic activities. Position offers a competitive salary and laboratory start-up package. The Department is interested in strengthening research in neuropharmacology with molecular and structural biology approaches although all candidates with strong scientific credentials are encouraged to apply. Application deadline is October 31, 1992. Applications including names of three references should be sent to: **Dr. Fulton T. Crews, Chairman of the Search Committee, University of Florida, Department of Pharmacology, P.O. Box 100267, Gainesville, FL 32610.** The University of Florida is an Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

### EXPERIMENTAL PATHOLOGIST- IMMUNOLOGIST ASSISTANT OR ASSOCIATE PROFESSOR

Tenure-track position at the University of Florida Health Science Center beginning March 1, 1993. Applicants should have a Ph.D. degree or D.V.M., Ph.D. degrees and evidence of research accomplishment in molecular pathology, immunology, or related disciplines. The successful candidate will be expected to establish an independent research program and to contribute to graduate and professional student teaching. Send curriculum vitae and the names of three references before October 1, 1992 to: **Dr. William L. Castleman, Chairman, Department of Comparative and Experimental Pathology, College of Veterinary Medicine, P.O. Box 100145, University of Florida, Gainesville, FL 32610-0145.**

The University of Florida is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### FACULTY POSITION Structure and Function of Neural Circuits Department of Neurobiology and Behavior State University of New York at Stony Brook

The Department of Neurobiology and Behavior of SUNY at Stony Brook is seeking a candidate for a tenure-track state-funded position as an ASSISTANT PROFESSOR beginning with the 1993-1994 academic year. Area of interest for the successful candidate will be in *structure and function of neural circuits*. The applicant will be expected to teach neuroanatomy to first-year medical and graduate students and to participate in the graduate program. This position is a 12-month appointment in the Medical School. The Department, which currently consists of 18 members, is slated to grow to at least 22 full-time faculty within the next five years.

All applicants should have a minimum of two years of postdoctoral experience. Candidates will be expected to develop a vigorous, independent research program. Ample space and start-up funds will be provided. Applicants should submit curriculum vitae, statement of research interests, any information relevant to the applicant's ability to teach medical neuroanatomy, and the names and addresses of at least three references to: **Search Committee A, c/o Dr. Lorne M. Mendell, Chairman, Department of Neurobiology and Behavior, State University of New York, Stony Brook, NY 11794-5230.** The closing date for applications is October 30, 1992.

SUNY Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer.

**ASSISTANT PROFESSORSHIP**—The Department of Veterinary Microbiology, College of Veterinary Medicine, University of Missouri-Columbia has an immediate opening for a full-time tenure-track position at the rank of Assistant Professor. The Department focuses on biotechnology and contemporary immunologic technology for controlling infectious diseases of veterinary, zoonotic, and comparative medical importance. The Department collaborates with campus researchers in molecular/cell biology, medicine, agriculture, and biological sciences.

Requires a Ph.D. molecular virologist. D.V.M. degree is preferred. The position will involve development of a competitive research program in molecular virology and instruction of graduate and professional (D.V.M.) students.

Applications will be reviewed beginning November 1, 1992, and will be accepted until suitable candidates are identified. Salaries negotiable.

Send curriculum vitae, names and addresses of three references, and a statement of professional goals to:

**Dr. James G. Thorne, Chair, Search Committee  
Department of Veterinary Microbiology  
104 Connaway Hall  
University of Missouri-Columbia  
Columbia, MO 65211  
Telephone: 314-882-6550**

The University of Missouri is an Affirmative Action/Equal Opportunity Employer/Educator.

### ASSISTANT PROFESSOR Biochemistry, Cell and Molecular Biology Dartmouth Medical School

The Department of Biochemistry at Dartmouth Medical School, with Dr. William T. Wickner as Chair-designate, is recruiting an Assistant Professor. Consideration will be given to outstanding individuals who work within the broad areas of biochemistry, cell and molecular biology, including molecular genetics, neurobiology and developmental biology. The successful candidate will be expected to establish an independent research program, to participate in medical and graduate education, and to be a member of a well-established multidisciplinary graduate program. Candidates should have a Ph.D. or M.D. degree with relevant postdoctoral training.

Please send curriculum vitae and statement of research goals, and arrange for three letters of recommendation to be mailed to the address below.

**BCMB Search Committee, Department of Biochemistry, Dartmouth Medical School, 7200 Vail Building, Room 413, Hanover, NH 03755-3844.** Fax: 603-650-1128. Review of applications will begin November 15, 1992. Dartmouth is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS  
BOSTON UNIVERSITY  
COLLEGE OF ENGINEERING  
BIOMEDICAL ENGINEERING  
DEPARTMENT**

Several postdoctoral positions are available through the college, department, and individual research programs. The College and Departmental positions are scheduled to begin July 1, 1993 and may be with any of the department's full time faculty in the following laboratories and affiliated Centers:

Fields and Tissues Lab (Eisenberg);  
Hearing Research Labs (Camey, Colburn, Hubbard, Mountain, Voigt);  
Intelligent Systems Lab (Vaina);  
Molecular Engineering Lab (DeLisi, Vajda);  
Respiratory Research labs (Federspiel, Jackson, Lutchen, Stamenovic);  
Biomolecular Engineering Research Center (T. Smith)  
Biotechnology Center (Cantor, C. Smith)  
NeuroMuscular Research Center (De Luca, Merletti, Ladin).

The following positions are available immediately;  
(Auditory Neurophysiology Laboratory) H. F. Voigt, T. Benson  
structure/function relations in cochlear nucleus;  
multiple-unit and intracellular studies  
(Field and Tissues Laboratory) S. Eisenberg  
finite element analysis of magnetically induced electric fields in the heart and thorax  
(Molecular Engineering Lab) C. DeLisi  
biomolecular engineering/computation of protein and DNA structure & function  
(NeuroMuscular Research Center) C. De Luca, J. Collins, S. Roy  
(2 positions)  
to study the neural control and biomechanics of posture and locomotion; to study the relationship between muscle fiber type and electromyography.

Send curriculum vitae and the names of three references by November 1, 1992 for positions starting July 1, 1993 and as soon as possible for positions available immediately to: H.F. Voigt, Ph.D. Chairman, Biomedical Engineering, Boston University, College of Engineering, 44 Cummington, MA 02215

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This position will afford the opportunity to study the pharmacological regulation of cartilage turnover as it relates to the development of drugs for the treatment of arthritis.

The qualified candidate will have a Ph.D. in Cell Biology, Pharmacology, Biochemistry or a related discipline and 1-3 years of postdoctoral experience. Laboratory experience in the area of connective tissue metabolism, familiarity with *in vitro* test systems used to study the turnover of the extracellular matrix, and the ability to interact effectively with coworkers and participate in a team effort are essential.

As a reflection of the significance we place on this position, we've created a highly competitive and comprehensive compensation package. Please send resume, including present salary (those without this information will not be considered) to: **Mrs. Eleanor Malone, Staffing Department EM152JC, Hoffmann-La Roche Inc., Nutley, New Jersey 07110-1199.** We are an equal opportunity employer.

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## STUDY DIRECTOR ACUTE TOXICOLOGY

The toxicology facility of Miles, Inc. located near Kansas City is currently searching for a toxicologist to serve as the Study Director for Acute Toxicology. Responsibilities include:

Planning and directing acute toxicity testing principally for the Agriculture, Industrial Chemicals and Polymers Divisions

Scientific interpretation of study results and technical report preparation

Supervision of technical personnel  
Evaluation of toxicology data for product safety

Planning for future development in the area of acute toxicology

Successful candidates must have earned their Doctorate in Toxicology or in related fields during 1990 through 1992. Miles Inc. offers a comprehensive benefit package including relocation. Send resume and salary history to: **Cheri Simons, c/o Miles Inc., P.O. Box 4913, Kansas City, MO 64120.**

**MILES** 

Agriculture Division  
An Equal Opportunity Employer

## RESEARCH OPPORTUNITY FOR MEDICAL STUDENTS

### HHMI-NIH RESEARCH SCHOLARS PROGRAM (CLOISTER PROGRAM)

Applications are now being accepted for the 1993-94 class of the Howard Hughes Medical Institute (HHMI)-National Institutes of Health (NIH) Research Scholars Program.

The Program is a joint venture of the Howard Hughes Medical Institute and the National Institutes of Health, and provides an opportunity for U.S. medical students to spend a year in laboratory research at the NIH. Upon arrival in Bethesda, Maryland, scholars choose a basic science research project, selecting from more than 287 laboratories and 1,100 scientists.

Scholars are employees of HHMI and are housed at The Cloister, a residence on the NIH campus. The annual salary is \$16,800, plus health insurance and other fringe benefits.

The applicant must be a U.S. citizen or permanent resident attending a medical school in the United States or Puerto Rico and must not be enrolled in an M.D.-Ph.D. program.

Deadline for applications is **January 11, 1993.** Students will be notified of results by **April 1, 1993.** The program year will begin in the summer of **1993.**

Brochures and application kits are available in the student affairs office of medical schools; they may also be obtained by writing or calling:

Howard Hughes Medical Institute  
One Cloister Court, Dept S  
Bethesda, MD 20814-1460  
Telephone: (301)951-6710 or (800)424-9924

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.

## POSITIONS OPEN

Minneapolis—UNIVERSITY OF MINNESOTA—Department of Psychiatry seeks two Psychiatrists to fill full-time faculty positions in the adult division at the level of **ASSISTANT PROFESSOR**, probationary, tenure-track. The positions require a commitment to research and teaching. Successful applicants will be involved in the following: (1) supervision of medical students, psychiatric residents, and allied health professionals in clinical setting; (2) conduct of clinical or basic research leading to scientific publications; (3) grant writing and submission; and (4) participation in the design and teaching of didactic courses for residents and medical students. Applicants should be board eligible with demonstrated interest and ability to do psychiatric research. Send résumé and letter of interest to: **Thomas B. Mackenzie, M.D., Box 329 UMHC, University of Minnesota Hospital and Clinic, Minneapolis, MN 55455**, by January 1, 1993. Beginning date of appointment is negotiable.

*The University of Minnesota is an Equal Opportunity Educator and Employer.*

## EVOLUTIONARY PLANT ECOLOGIST

The Department of Biological Sciences anticipates a full-time tenure-track faculty appointment at the **ASSISTANT PROFESSOR** level open in the area of evolutionary plant ecology beginning September 1993. Outstanding applicants at a more senior level are also encouraged to apply; in all cases salary will be highly competitive. Applicants must have a Ph.D. and extensive postdoctoral experience. Applicants interested in life history evolution, population ecology, reproductive ecology, ecology of riparian plant communities or plant/animal interactions are especially encouraged to apply. The successful candidate will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. The individual will also be expected to contribute to the expanding research and teaching program at the Department's Pymatuning Laboratory of Ecology. In order to ensure full consideration, applications must be received by December 11, 1992. Applicants should send curriculum vitae, a summary of research interests and goals, and arrange to have at least three letters of reference sent to:

**Dr. William Searcy**  
Plant Ecology Search Committee  
Department of Biological Sciences  
University of Pittsburgh  
Pittsburgh, PA 15260  
Telephone: (412) 624-4266

*The University of Pittsburgh is an Equal Opportunity/Affirmative Action employer. Women and minorities are especially encouraged to apply.*

## ASSISTANT PROFESSORS

**University of North Carolina at Chapel Hill  
Lineberger Comprehensive Cancer Center and  
The Program in Molecular Biology &  
Biotechnology**

As part of the expansion of the Program in Molecular Biology & Biotechnology and the Lineberger Comprehensive Cancer Center we are seeking investigators using mammalian or viral systems to study fundamental problems in regulation of biological processes at the molecular level. We are particularly interested in candidates studying: cell-cycle regulation; control of gene expression; protein-nucleic acid interactions; developmental biology; tumorigenesis or signal transduction. Successful applicants are expected to develop an independent interdisciplinary research program which would complement existing strong programs in yeast cell-cycle regulation, mammalian genetics, gene expression, and growth regulation. These will be tenure-track positions with the department determined by the applicant's training and interests. Apply with curriculum vitae, brief description of research plans, and three letters of recommendation by December 1, 1992 to:

**Dr. William Marzluff**  
University of North Carolina at Chapel Hill  
Program in Molecular Biology & Biotechnology  
CB #7100, 132 MBRL  
Chapel Hill, NC 27599-7100

*The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

## POSITIONS OPEN

The recently formed Department of Microbiology and Molecular Genetics at The University of Texas Medical School at Houston, invites applications at the **ASSISTANT PROFESSOR** level to fill one or more tenure-track faculty positions. Areas of interest include but are not restricted to the following: prokaryotic and lower eukaryotic genetics, physiology, molecular biology, cell signalling, development, structure and function; viral gene expression and replication control; and transcriptional analyses and RNA processing. Candidates are expected to have the Ph.D. and/or M.D. degree, and postdoctoral research experience. Emphasis will be placed upon the ability of the candidate to develop a strong, highly visible, independent and nationally competitive research program. Successful applicants will be expected to teach medical students and graduate students. Please send curriculum vitae and statement of teaching and research interests as well as the names of four referees to: **Dr. Samuel Kaplan, Microbiology and Molecular Genetics, The University of Texas Medical School at Houston, P.O. Box 20708, Houston, TX 77225**. For full consideration please respond by December 15, 1992.

*The University of Texas Health Science Center is an Equal Opportunity Employer. Women and Minorities are encouraged to apply.*

## TENURE-TRACK FACULTY POSITIONS Massachusetts Institute of Technology Department of Biology

Applicants are sought for several tenure-track faculty positions at the level of **ASSISTANT PROFESSOR**. Applicants should have significant research accomplishments, the ability to establish and maintain a vigorous research program, and a commitment to excellence in education at the undergraduate and graduate levels.

- Two positions are available in the areas of cellular, molecular and genetic approaches to nervous system function and development.
- One position is broadly defined and could include any area of modern molecular, cell or structural biology.

Applicants should provide curriculum vitae, a summary of research accomplishments and proposed research, and copies of key publications or preprints. Applicants should arrange that at least three letters of recommendation be sent from scientists who can evaluate their accomplishments and future potential for research and teaching. Applications should be sent to:

**Biology Search Committees**  
**Attn: Marilyn T. Smith**  
Massachusetts Institute of Technology,  
Building 56-511  
77 Massachusetts Avenue  
Cambridge, MA 02139

*M.I.T. is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.*

## ASSOCIATE PROFESSOR OF BIOLOGY The University of Texas at San Antonio (UTSA)

Applications are invited for a tenure-track faculty position at the Associate Professor level. Requirements include a doctoral degree, postdoctoral experience, a commitment to teaching, and demonstrated research accomplishments appropriate for the rank of Associate Professor in one of the following areas: Immunology, Virology, Molecular/Cell Biology or Computational Neurobiology. Emphasis will be placed on selecting an outstanding individual with research interests relevant to the mission of the Division. Set-up funds and laboratory space are available. The Division of Life Sciences offers the B.S. and M.S. in Biology, an M.S. in Biotechnology and a Ph.D. in Biology.

To apply, send curriculum vitae and a letter of application describing research interests, and have three reference letters sent to: **Dr. Brenda J. Claiborne, Chair, Associate Professor Search Committee, Division of Life Sciences, The University of Texas at San Antonio, San Antonio, TX 78249**. Initial screening of candidates will begin on November 2, 1992. Applications will be accepted until November 30, 1992.

*UTSA is an Affirmative Action/Equal Opportunity Employer. Minorities and women are especially encouraged to apply.*

## POSITIONS OPEN

### NEUROSCIENCE/CELL BIOLOGY

Two **ASSISTANT/ASSOCIATE PROFESSOR** positions in Neuroscience/Cell Biology are available, LSU Medical Center, New Orleans. A Ph.D. and two to three years postdoctoral experience are required. Applicants must have an outstanding funding record/potential. Salary levels are competitive, with ample space and start-up funds. Joint appointments in the Neuroscience and LSU Eye Centers are encouraged. Send curriculum vitae, research interests, and names of three references to: **Dr. R. Ranney Mize, Head, Department of Anatomy, LSU Medical Center (LSUMC), 1901 Perdido Street, New Orleans, LA 70112-1393**. *LSUMC is an Equal Opportunity/Affirmative Action Employer.*

## DEVELOPMENTAL BIOLOGY FACULTY POSITIONS

The Department of Cell Biology at the Duke University Medical Center is planning an expansion of its faculty in the field of Developmental Biology. Interactive scientists with a strong research commitment and interests in the cellular and molecular basis of development in vertebrate and invertebrate model systems are encouraged to apply. Focus should be on strategies designed to elucidate the cellular and molecular basis of metazoan development. Appointments will likely be at the level of **ASSISTANT PROFESSOR**.

Please send curriculum vitae, a list of three references and a brief description of research interests to:

**Michael P. Sheetz, Chairman**  
Department of Cell Biology  
Duke University Medical Center, Box 3709  
Durham, NC 27710

Priority will be given to those applications received by December 1, 1992. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

## REPRODUCTIVE ENDOCRINOLOGY

The Department of Physiology at the University of Maryland School of Medicine invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** levels. We are seeking candidates with cellular and molecular training in female **reproductive endocrinology/neuroendocrinology**. Applicants must have a Ph.D. or M.D., at least two years of postdoctoral experience, and the potential to develop a strong, independent research program. Teaching responsibilities include participation in medical and graduate courses. The Department of Physiology and School of Medicine provide a stimulating environment for research. Interdisciplinary programs in Reproductive Biology, Molecular and Cell Biology, Membrane Biology, Cardiovascular Biology, and Neuroscience promote interaction between faculty, fellows, and students. The candidate will join the Center for Studies in Reproduction and other programs of interest, and participate in the NIH-sponsored Reproductive Biology Training Program. Applicants should submit (1) curriculum vitae, (2) statement of research interests, experience and plans, and (3) names of three references to: **Robert D. Koos, Ph.D., Chair, Reproductive Endocrinology Search Committee, Department of Physiology, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201**. Review of applications will begin October 12, 1992. *Women and minority candidates are encouraged to apply. The University of Maryland is an Affirmative Action/Equal Opportunity Employer M/F/H/V.*

**THE DEPARTMENT OF CHEMISTRY, INDIANA UNIVERSITY** invites applications for tenured positions in analytical chemistry, biochemistry, and organic chemistry at the level of **ASSOCIATE PROFESSOR** or higher. Outstanding, established teacher-scholars are sought whose research interests will complement those of the current staff. The positions are to be occupied in the academic year 1993-94. Applicants should submit curriculum vitae and a list of publications to: **Professor Paul A. Grieco, Department of Chemistry, Indiana University, Bloomington, IN 47405**. *Minority and female applicants are encouraged to apply. The deadline for receipt of applications is November 1, 1992. Indiana University is an Equal Opportunity/Affirmative Action Employer.*



## NEUROGEN CORPORATION

### RESEARCH ASSOCIATES

#### **OPPORTUNITIES IN DRUG DISCOVERY, ELECTROPHYSIOLOGY AND PHARMACOLOGY**

**NEUROGEN CORPORATION**, a young dynamic company in the field of neuroscience, is currently expanding its staff in Drug Discovery, Pharmacology and Electrophysiology. Neurogen scientists are developing novel therapeutics for neurological and psychiatric disorders.

#### **DRUG DISCOVERY**

The successful candidate will use *in vitro* pharmacological and biochemical techniques to assess binding affinities and functional potencies of novel compounds in the CNS. A B.S. or M.S. (or equivalent) is required. Previous experience performing receptor binding and/or second messenger enzyme assays is preferred.

#### **PHARMACOLOGY**

Neurogen-synthesized drugs will be examined in *in vitro* and *in vivo* models designed to predict clinical effects in humans. A B.S. or M.S. degree (or equivalent) with a background in neuroscience, experimental design and the desire to work with laboratory animals (rodents) are prerequisites.

#### **ELECTROPHYSIOLOGY**

This position involves using electrophysiological techniques for preclinical research into the actions of novel compounds targeted as hypnotics, anxiolytics and antipsychotics. A B.S. or M.S. degree (or equivalent) is required. Experience in the use of electrophysiological recording techniques is preferred.

**NEUROGEN** is located in Branford, Connecticut, close to New Haven. We offer a stimulating intellectual environment and state of the art laboratory facilities. Neurogen has a comprehensive compensation program consisting of competitive salary, equity participation, 401(K) plan, health and medical programs, as well as relocation assistance.

Interested candidates should send resumes with a cover letter indicating position of interest, to **Director of Human Resources (Science), Neurogen Corporation, 35 N.E. Industrial Road, Branford, CT, 06405.**

*Neurogen is an Affirmative Action/Equal Employment Opportunity Employer.*



SAINT  
MARY'S  
COLLEGE  
OF CALIFORNIA

## DEAN OF THE SCHOOL OF SCIENCE

Saint Mary's College of California seeks a colleague and leader who will build upon a record of success and guide the School of Science to its next level of academic excellence. With strong institutional support, this Dean will facilitate the development of an outstanding and nationally acknowledged program of under graduate science and mathematics education.

As the chief academic officer of the School of Science, the Dean will demonstrate vision, leadership, energy, and an intense commitment to the pursuit of ideas and academic excellence in science education. The successful applicant will have an earned doctorate; a distinguished record of teaching and active scholarship commensurate with the rank of Associate or Full Professor; and experience as an effective academic administrator.

Saint Mary's College is a Catholic, selective, coeducational, comprehensive college of about 3,500 students, 2,200 of whom are undergraduates. Operated by the Christian Brothers, it is located 21 miles east of San Francisco. The School of Science is a vigorous and growing academic unit with a faculty of 44 (28 full-time/7 FTE part-time) representing the disciplines of Biology, Chemistry, Mathematics, Physics, and Psychology.

Please send nominations or application letter, along with curriculum vitae, names, addresses, and telephone numbers of at least five references, and relevant supporting materials to: Dr. William J. Hynes, Academic Vice President, P.O. Box 4257, St. Mary's College, Moraga, CA 94575; (510) 631-4406. Salary and rank dependent on exp. & qualifications. Consideration of completed applications will begin in mid-October 1992 and continue until the position is filled. Committed to diversity and an Equal Opportunity Employer, the College encourages women, people of color, Christian Brothers, disabled individuals & veterans to apply.

### IMMUNOLOGY FACULTY POSITIONS SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH

Tenure-track positions at the Assistant or Associate Member levels are available in the Immunology Program at the Sloan-Kettering Institute. Candidates with an interest in the molecular, biochemical, and functional aspects of lymphocyte receptors and antigens will be given preference. Candidates should have a successful record of research achievements in immunology and the ability to develop a strong, independent research program. The Immunology Program has an active and expanding faculty whose research interests encompass cellular immunology, histocompatibility, transplantation, immunogenetics, immunochemistry, gene regulation, and tumor immunology. Interactions with other members of the Immunology Program and with the other programs in the Institute (Molecular Biology; Cell Biology and Genetics; Molecular Pharmacology; and Cellular Biochemistry and Biophysics) are encouraged. Graduate school affiliation with Cornell Medical College is possible. An attractive start-up package will be provided for the investigator to establish or re-establish his/her laboratory.

Applicants should send a Curriculum Vitae, bibliography, statement of research interests and names of three references to:

Dr. Kenneth O. Lloyd,  
Chairman, Immunology Program  
Sloan-Kettering Institute  
1275 York Avenue  
New York, NY 10021

SKI is an affirmative action, equal opportunity employer.



## DIRECTOR-UNIVERSITY OF IOWA CENTER FOR BIOCATALYSIS & BIOPROCESSING

The University of Iowa, Center for Biocatalysis and Bioprocessing (CBB) seeks a qualified scientist to serve as Director of the Center. We seek a leader with a distinguished career in academic and/or industrial research in biocatalysis and/or bioprocessing. Ideally, the Director will have extensive industrial contacts and scholarly credentials suitable for a tenured position in any one of the following academic departments: Biochemistry, Chemical and Biochemical Engineering, Chemistry, Civil and Environmental Engineering, Medicinal and Natural Products Chemistry, and Microbiology.

The Director will report directly to the Vice President for Research and will be responsible for coordination of all the Center's activities. These include: planning and development of the Center's new facilities; budget management, staff management and recruitment; working with faculty to seek industrial, federal and state support for research projects to be conducted in the Center; expansion and development of an industrial affiliates program; management of university/industry minisymposia, seminars, and annual conferences on Biocatalysis and Bioprocessing. The CBB is a multidisciplinary organization founded in 1983 and is currently supported by an annual state appropriation of \$1.27 million. Its 37 faculty affiliates, drawn from six departments and four colleges, are supported by more than \$6 million annually from federal, state and industrial sources.

Applicants are expected to have a Ph.D. degree. Salary will be commensurate with qualifications and experience. Applications including a curriculum vitae, a current list of publications and grant support, and the names of three referees should be sent to:

**Dr. John P. N. Rosazza, Center for Biocatalysis and Bioprocessing, 318 College of Pharmacy, University of Iowa, Iowa City, Iowa 52242-1112. Phone (319) 335-8764; FAX (319) 335-8766. Applications will be received until the position is filled by January 1, 1993. The University of Iowa is an Affirmative Action/Equal Opportunity Employer.**



## STOCKHOLM UNIVERSITY FULL PROFESSORSHIP IN THEORETICAL CHEMISTRY

Stockholm University invites applications for a newly-created position as professor in theoretical chemistry. The position will be located within the department of chemistry, in the Arrhenius Laboratories for research in chemistry and life sciences. It will include responsibility for formulating and leading a graduate research program in theoretical chemistry. Applicants should have an outstanding record of research achievements in the field of theoretical chemistry, defined in the broadest possible sense. Informal enquiries may be made to professor Jozef Kowalewski, tel. +46-8 162376, fax +46-8 152187, e-mail JK@PHYSC.SU.SE.

*Stockholm University is a major university in the capital of Sweden. The city of Stockholm has almost one million inhabitants and is a major cultural and scientific centre. It enjoys a unique location on the edge of an archipelago of over ten thousand islands.*

Applications should be sent **before October 15, 1992 to the Registrar, Stockholm University, S-106 91 Stockholm, Sweden**, quoting the reference number 611-483/92. The following items should be included (all in four copies): 1. curriculum vitae. 2. bibliography. 3. brief description of the scientific achievements and teaching experience (5-10 pages). 4. all scientific papers (numbered according to the bibliography). Item 1 should reach the university before October 15, 1992. Items 2-3 and one copy of item 4 should arrive before November 5, 1992. The three additional copies of item 4 are to be sent at a later date directly to the expert members of the search committee.

## POSITIONS OPEN

### EXERCISE MOLECULAR BIOLOGIST

**ASSISTANT PROFESSOR.** The College of Kinesiology at the University of Illinois at Chicago invites applications for a tenure-track position in exercise molecular biology beginning Fall 1993. Candidates should have a strong background in physiology and extensive experience using transgenic mice to study problems associated with exercise and development. Applicants should have a doctoral degree (Ph.D. and M.D.) and at least three years of postdoctoral training in molecular biology with clear potential to develop a productive research program and the ability to be an effective teacher. Salary will be commensurate with qualifications. Interested individuals should send curriculum vitae and three letters of recommendation postmarked by December 1, 1992 to: **Lawrence B. Oscai, Ph.D., College of Kinesiology, M/C 194, University of Illinois at Chicago, 901 West Roosevelt Road, Chicago, IL 60608-1516.** *The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.*

### PHYSIOLOGICAL ECOLOGIST

The Department of Biological Sciences, Dartmouth College, invites applications for a tenure-track position in Physiological Ecology, to begin Fall 1993, at the **ASSISTANT** or possibly **ASSOCIATE PROFESSOR** level. We seek candidates studying the physiological ecology of plants, animals, or plant-animal interactions in terrestrial environments. Research should be at the organismal level, but directed towards understanding patterns or processes at the population, community, or ecosystem levels. Individuals addressing fundamental research questions and/or questions relevant to environmental issues are encouraged to apply. 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. and postdoctoral experience required. Submit curriculum vitae, statement of research and teaching interests, three recent reprints, and three letters of reference to: **Ecology Search Committee, Department of Biological Sciences, Dartmouth College, 6044 Gilman, Hanover, NH 03755-3576. FAX: (603) 646-1347.** Review of applications will begin on 15 October 1992. *Dartmouth is an Equal Opportunity/Affirmative Action Employer.*

**HEMATOLOGY FACULTY POSITION—ASSISTANT/ASSOCIATE PROFESSOR.** Hematology Section at Boston University Medical Center. We are seeking an M.D. or M.D./Ph.D. whose primary responsibility will be to maintain an active research program addressing basic issues in cell differentiation, immunology, hemostasis, oncogenesis, cytokines or gene regulation. Minimal clinical and teaching duties. Send curriculum vitae to: **Lewis R. Weintraub, M.D., Room E-501, University Hospital, 75 East Newton Street, Boston, MA 02118. Telephone: 617-638-7002, FAX: 617-638-7065.**

**ASSISTANT/ASSOCIATE PROFESSOR—GIS IN NATURAL RESOURCES.** School of Agriculture and Land Resources Management, University of Alaska Fairbanks (UAF). Salary: \$1,490.94 per bi-weekly pay period DOE. Ph.D. in Geography, Forestry, Landscape Ecology, Natural Resources Management, Spatial Statistics, or a related field required. UAF offers a multitude of existing research programs and potential new opportunities dealing with the circumpolar environment. Existing programs include the NSF-funded Taiga Long Term Ecological Research (LTER) program which emphasizes the successional ecology of the boreal forest; an expanding biodiversity and natural areas program, programs dealing with land and forest management in interior Alaska and programs that relate to multiple resource management problems faced within the state. For more information and application process, contact: **Lori Schommer, CES/SALRM Personnel Contact, Room 110 Arctic Health Building, University of Alaska Fairbanks, Fairbanks, AK 99775; Telephone: 907-474-7963.** Application Deadline: November 1, 1992.

Persons hired by the University of Alaska must comply with the provisions of the 1986 Immigration Control Act and are expected to possess a valid social security number. Finalist applications for employment with the University of Alaska may be subject to disclosure.

**THE UNIVERSITY OF ALASKA IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER AND EDUCATIONAL INSTITUTION.**

## POSITIONS OPEN

The Department of Biomedical Sciences, Southern Illinois University School of Dental Medicine is seeking applicants for a full-time, continuing, tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level, Section of Pharmacology. A Ph.D. in pharmacology or combined Ph.D./D.M.D. or D.D.S. is required. The candidate will have the responsibility of teaching pharmacology and therapeutics to dental students and is expected to pursue an active, fundable research program. Position available July 1, 1993. Applications accepted until January 15, 1993, or until position is filled. Send curriculum vitae with names and addresses of three references to: **Dean Patrick J. Ferrillo Jr., Southern Illinois University, School of Dental Medicine, 2800 College Avenue, Alton, IL 62002.**

*Affirmative Action Equal Opportunity Employer.*

## UNIVERSITY OF VERMONT Molecular/Cellular Physiologist

The Department of Physiology and Biophysics seeks two tenure/research-track faculty members at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. The Department has strengths in the following aspects of muscle physiology: 1) Contraction and motility; 2) Ion channel and transport function; 3) Cellular growth and remodeling; 4) Intra- and intercellular signaling. We are seeking individuals whose research directly complements existing strengths. Strong preference will be given to individuals applying forefront cellular and/or molecular biological techniques to the study of physiological function. Candidates for Assistant Professor must have an earned doctorate, plus two or more years of postdoctoral experience at time of application. They must demonstrate the potential to develop an active independent research program and to contribute effectively to department teaching at both graduate and undergraduate levels. Applicants at the Associate Professor level must have demonstrated excellence in teaching and their ability to direct and sustain vigorous and productive research programs. *The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and individuals from diverse racial, ethnic, and cultural backgrounds are encouraged to apply.*

Applicants should send curriculum vitae along with a description of career goals, research objectives, and names of three references, by November 15, 1992, to:

**Chair, Faculty Search Committee  
Department of Physiology & Biophysics  
University of Vermont College of Medicine  
Burlington, VT 05405-0068**

## PROFESSOR OR ASSISTANT PROFESSOR

Section of Cell Growth, Regulation and Oncogenesis, Duke Comprehensive Cancer Center, Duke University Medical Center. Applications invited for a position at the level of either Professor or Assistant Professor in the Section of Cell Growth, Regulation and Oncogenesis. Research within the Section is focused on the genes and biochemical pathways that regulate cell growth and the molecular analysis of the disruption of such controls in cancer cells. Investigators working at the molecular level on signal transduction, oncogenes/anti-oncogenes, angiogenesis, metastasis and apoptosis are especially encouraged to apply. Applicants seeking a tenured professorship must have distinguished records of accomplishments and be internationally recognized as a leader and innovator in research. Applicants seeking a tenure-track assistant professorship must have a doctorate, at least two years of postdoctoral training and must have demonstrated high potential for imaginative independent research. Successful candidates will also be appointed into a basic science department within the Medical Center. Applicants for a tenured professorship position need send only a letter expressing interest, curriculum vitae and list of publications. All inquiries will be held in confidence. Applicants for an assistant professorship should send curriculum vitae, a brief description of present and proposed research and arrange for three or more letters of recommendation to be forwarded to: **Dr. Robert M. Bell, Head, Section of Cell Growth, Regulation and Oncogenesis, Duke Comprehensive Cancer Center, Box 3686, Durham, NC 27710.** To be assured of full consideration, the application should be received by October 23, 1992. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

# MOLECULAR BIOLOGIST

## *(Chemical Carcinogenesis)*

The Chemical Industry Institute of Toxicology (CIIT) is seeking a scientist to join the research staff in the Carcinogenesis Program. Qualified individuals need to have a Ph.D. in a research area that had a concentration on molecular biology, and should have at least three years postdoctoral experience. It is also advantageous to have research interests in the general area of mechanisms of chemical carcinogenesis.

# MOLECULAR/CELLULAR PATHOBIOLOGIST

## *(Respiratory Tract Carcinogenesis)*

CIIT is seeking a scientist to join its research staff in the Respiratory Toxicology Program. Qualified individuals need to have a Ph.D. in a research area that had a concentration on molecular or cell biology, and should have at least three years postdoctoral experience. It is also advantageous to have research interests and experiences in the general area of pulmonary toxicology, biology and the pathobiology of fiber and particle-induced respiratory tract tumors.

The research areas of CIIT include carcinogenesis, respiratory toxicology, neuro- and developmental toxicology, with an emphasis on mechanistic studies and interdisciplinary collaborative research directed toward a better understanding of human health risks of exposure to chemicals. CIIT has a strong postdoctoral program and there are excellent opportunities for interaction with nearby outstanding Universities.

CIIT is an independent, not-for-profit research institute. The Institute is located in Research Triangle Park, NC, which offers many cultural and recreational activities. We offer competitive salary and benefits and a stimulating work environment. Interested applicants should submit a curriculum vitae with the names of three professional references, representative reprints and summary of research interests to: Human Resources Manager, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709.



An Equal Opportunity Employer (M/F, H/V)

## Environmental Professionals Join a Dynamic Team

**The Carlsbad Environmental Monitoring & Research Center** was established in 1991 as an independent, world-class, research facility for the study of health and environmental impacts associated with technological development. The first major activity managed by the Center is the Carlsbad Environmental Monitoring and Research Program (CEMRP). The mission of the CEMRP is to initiate and maintain an independent, state-of-the-art, environmental monitoring and research program in the vicinity of the Waste Isolation Pilot Plant (WIPP) and make the results easily accessible to all interested parties.

These challenging times require innovative environmental solutions. Join the Center team and turn your ideas into reality. The Center is now hiring senior scientists in the following areas:

- **ENVIRONMENTAL PROGRAMS MANAGEMENT** - Duties include: lead responsibility for the management of the CEMRP, coordinate research efforts, assist in development of integrated program management plans, manage a multi-disciplinary staff of scientists and engineers participating in the CEMRP, subcontract administration, and business development. Qualifications: M.S. or Ph.D. in Radiochemistry, Health Physics, Environmental Chemistry or related field, with a minimum of 5 years experience managing large environmental programs.
- **INTERNAL DOSIMETRY** - Duties include: develop and implement internal dosimetry program; supervise laboratory operations; establish procedures; implement research program. Qualifications: Ph.D. in Radiochemistry or Health Physics, with a minimum of 5 years of laboratory experience.
- **RADIOCHEMISTRY** - Duties include: develop and implement radiochemistry program; supervise laboratory operations; implement research program; establish procedures for sample collection and analyses. Qualifications: Ph.D. in Radiochemistry, with a minimum of 5 years of laboratory experience.
- **ENVIRONMENTAL CHEMISTRY** - Duties include: develop and implement environmental chemistry program; supervise laboratory operations; implement research program; establish procedures for sample collection and analyses. Qualifications: Ph.D. in Environmental Chemistry or Radiochemistry, with a minimum of 5 years of laboratory experience.

Employment is contingent on the availability of funding, and salary is negotiable, depending on education and experience. Applications will be accepted until all positions are filled. In addition, we are expecting openings for environmental professionals at all levels of training and experience. Please send résumé to: Dr. Donald J. Fingleton, Director; Carlsbad Environmental Monitoring & Research Center; 800 West Pierce; Carlsbad, NM 88220.

New Mexico State University is an EEO/AA employer.

## MANAGER TECHNOLOGY DEVELOPMENT

We are a well-established, Cincinnati-based, private company which invests in, develops and manages medical technology ventures.

As a key member of the Medical Technology Group, you will report directly to the Director of Medical Technology and play a lead role in identifying, selecting, acquiring and managing medical technology research projects in university medical research institutions and other sources of emerging technology. You will also monitor technology developments in areas of strategic interest to the firm as well as evaluate equity investments from a technology perspective for the organization. The projects you manage will have substantial capital backing and management support services available.

If you are the person we seek, you have direct experience in biomedical device and instrumentation development, technology licensing, intellectual property management and patent strategy; you are a broadly knowledgeable individual with the intellectual curiosity, confidence and capability to identify, synthesize and communicate the key elements and status of any physical and life sciences technology; you have a knowledge of regulatory requirements, with strong ties to medical research communities. You have distinguished academic and professional accomplishments which amply demonstrate your exceptional management and technical capabilities.

If this sounds like your professional profile, we would like to talk to you about an exceptional opportunity to fully apply your unique capabilities in an attractive, knowledge-based environment as part of a creative management team.

We have an excellent compensation and benefits package awaiting the right person. Please contact our consultant with a letter and resume in confidence: L. Christine Visnich, Dept. S-06; Bason Associates, Inc., 401 Crescent Ave., Cincinnati, OH 45215.



### DEAN, COLLEGE OF MEDICINE THE UNIVERSITY OF IOWA

The University of Iowa seeks candidates for the position of Dean of the College of Medicine. The Dean reports to the Vice President for Health Sciences, is spokesperson for the faculty of the College, and represents the College in interactions with practitioners throughout the state. Responsibilities of the Dean include faculty recruitment and appointments; educational, clinical and research programs; admission and placement of students; student affairs; fiscal planning and management; short term and strategic planning; space and equipment utilization; and other activities that affect education, research, and professional service within the College.

The College of Medicine is among the top ten public medical schools in National Institutes of Health funding and is part of a major research university. The College is affiliated both with an adjacent, comprehensive Department of Veterans Affairs Medical Center and with the University of Iowa Hospitals and Clinics, the largest university-owned teaching hospital in the United States.

Candidates should possess an M.D., Ph.D., or both, have a distinguished record of teaching, research, and service in a medically-related field and qualify for senior academic rank in the College of Medicine. The successful candidate must have a demonstrated capacity to foster an environment in which excellent teaching and scholarship can flourish, as well as an appreciation for the importance of developing and promoting clinical programs in a state which relies heavily on rural, primary care physicians.

The Search Committee seeks candidates who have a record of innovative and effective administrative leadership; possess strong advocacy skills expect and enjoy interaction with students; and who have a commitment to increasing diversity among students, staff, and faculty. A demonstrated knowledge of fiscal management within the complex, changing health care field is essential. A record of productive interaction with representatives of business and industry, community and state leaders, legislators, and officials at all governmental levels is highly desirable.

The Search Committee will accept nominations and applications until the position is filled. The Committee is particularly interested in identifying minority and women candidates. Applications should include a *curriculum vitae* and the names, addresses, and telephone numbers of five references. Please send nominations or applications to:

**Richard D. Williams, M.D.**  
**Professor and Head, Department of Urology**  
**Chair, Search Committee for the Dean**  
**of the College of Medicine**  
**126 CMAB**  
**The University of Iowa**  
**Iowa City, IA 52242**

*The University of Iowa is an equal opportunity and affirmative action employer.*

## POSITIONS OPEN

The Department of Physiology and Cell Biology of the University of Texas Medical School in Houston invites applications for a tenure-track faculty position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. Applicants are expected to have a Ph.D. or M.D., postdoctoral training experience and a record of accomplishments indicating that they are capable of pursuing a productive, independent research program. Special consideration will be given to those working in the areas of the cellular and/or molecular biology of epithelial ion transport.

Interested parties should send curriculum vitae, a statement of present and future research interests and the names of three references to:

**Dr. Stanley G. Schultz**  
**Professor and Chairman**  
**Department of Physiology and Cell Biology**  
**University of Texas Medical School at Houston**  
**P.O. Box 20708**  
**Houston, Texas 77225**

*The University of Texas Health Science Center is an Equal Opportunity/Affirmative Action Employer.*

### HAVERFORD COLLEGE

The Molecular, Cellular and Developmental Biology Department seeks two tenure-track **FACULTY MEMBERS** at the Assistant, or possibly Associate, Professorial rank for the Fall of 1993. Successful applicants will teach undergraduates at all levels and maintain an active research program with extensive undergraduate involvement. Areas of research should be in the regulation of gene expression or in cell biology with strong expertise in macromolecular biochemistry. Electron microscopy is desirable for one position. The department supports innovative teaching in the applicant's area of interest. A Ph.D. and postdoctoral research experience are required. Please send curriculum vitae, statements of teaching and research interests and three letters of recommendation by November 1, 1992 to: **Dr. Judy Owen, Biology Search, Haverford College, Haverford, PA 19041.** *Haverford College is an Equal Opportunity/Affirmative Action Employer.*

### TENURE TRACK ASSISTANT/ASSOCIATE PROFESSOR EUKARYOTIC MOLECULAR BIOLOGY

The Department of Microbiology, Molecular Genetics and Immunology at the University of Kansas Medical Center is recruiting an individual for appointment in the broad area of Eukaryotic Molecular Biology. Requirements include a Ph.D., demonstrated ability to pursue an independent research program and proven accomplishments at postdoctoral or faculty level. Applicants whose research efforts would strengthen existing programs or offer opportunities for collaboration with current faculty members are encouraged. Interested applicants should send full curriculum vitae, short summary of research plans, and names, addresses and phone numbers of three references to: **Dr. John A. Kinsey, Department of Microbiology Molecular Genetics and Immunology, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7420.**

*University of Kansas Medical Center is an Affirmative Action/Equal Opportunity Employer.*

### ANIMAL PHYSIOLOGIST

The Department of Biological Sciences at the University of Notre Dame invites applications for a tenure-track faculty position in Animal Physiology at the **ASSISTANT, ASSOCIATE or FULL PROFESSOR** level. While the specific area of physiology is open, candidates should be utilizing molecular techniques as part of their research. The successful candidate will be expected to maintain or develop an active research program that will attract outside funding. Teaching responsibilities will be one course per semester and will include an upper level undergraduate physiology course and a graduate course in the candidate's area of expertise. The University of Notre Dame offers highly competitive salaries, start-up funds and state of the art research facilities. Applicants should submit curriculum vitae, description of research and teaching interests and the names of three references by November 15, 1992 to: **Dr. Frederick W. Goetz, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556.** *Notre Dame is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### BIOLOGICAL SCIENCES FACULTY POSITIONS

The newly reorganized School of Biological Sciences (previously the School of Basic Life Sciences) invites application from individuals with a Ph.D. degree and at least two years of postdoctoral experience for two tenure-track ASSISTANT or ASSOCIATE PROFESSOR positions. Expertise in any one of the following research areas is preferred: Plant physiology, plant/cell developmental biology, comparative cell physiology, molecular genetics, cellular or molecular parasitology, invertebrate molecular neurobiology. We are seeking individuals with demonstrated potential for establishing independent, extramurally-funded research programs in any of the above research areas and with skills in communication. The successful candidates will be expected to teach courses at both the undergraduate and graduate level. Particular needs are for teaching general biology, plant sciences, general botany, genetics, zoology, cell biology, comparative physiology and related disciplines. Excellent career opportunities, competitive salaries, newly renovated space, start-up funds and modern research core facilities available. A commitment to quality undergraduate education is essential in a growing school with 45 faculty and an expanded scope to involve, within its mission in teaching the basic health sciences (Medicine/Dentistry) and the Ph.D. program, the bachelors and masters degrees in biology. Review of applicants will begin October 20, 1992. Applicants should refer to SBS-2 position and submit curriculum vitae, statement of research goals and teaching interests, and three letters of reference to: Search Committee, Office of the Dean, School of Biological Sciences, Biological Sciences Building Room 109, University of Missouri-Kansas City, Kansas City, MO 64110. An Equal Opportunity/Affirmative Action Employer.

### RESEARCH ASSOCIATE or ASSISTANT PROFESSOR

Research Associate or Assistant Professor position available for two years starting in winter 1992 for Ph.D. with experience in Molecular Biology. Project involves implementation of a sensitive hybridization assay for the detection of HIV-1 RNA in human cells using a novel ribozyme-mediated ligation reaction followed by RNA amplification using Q-Beta replicase. Work is funded by the Howard Hughes Medical Institute, the Rockefeller Foundation and the National University of Mexico. Research facilities include state-of-the-art instrumentation such as a Molecular Dynamics phosphorimager, a fluorescent DNA sequencer, advanced thermal cyclers and several ethernet-networked Macintosh II and Sparcstation computers. Salary is in the range of \$18,000-\$25,000 per annum (negotiable depending on level and qualifications). Familiarity with the Spanish language would be an asset, but is not essential. Please FAX curriculum vitae, statement of research interests, as well as the names of three references to Dr. Paul M. Lizardi, Depto. de Bioquímica, Instituto de Biotecnología, Cuernavaca, MEXICO. FAX (52-73) 17-73-88.

The Swiss Federal Institute of Technology and the University of Zurich are accepting applications for a joint PROFESSORSHIP in the field of MINERAL DEPOSITS AND CHEMISTRY OF THE EARTH'S INTERIOR. Candidates should be internationally recognized earth scientists with experience in studies of dynamic processes in the earth's interior, the interaction between crust and mantle as well as in the genesis of mineral deposits. Quantitative application of element and isotope abundance data in the development of chemical-thermodynamical models for mass transfer in the lithosphere is desired. We encourage close collaboration with other research groups of the department, especially in isotope geochemistry, geochemistry and petrology/petrography.

Teaching responsibilities include part of the undergraduate and graduate program in ore and mineral deposits, as well as ore microscopy, and should be expanded into the field of mantle geochemistry and application of related isotope data.

Applicants should submit detailed curriculum vitae, publication list, and a statement of research interest no later than October 31, 1992, to: President of ETHZ, Professor Dr. J. Nuësch, ETH Zentrum, CH-8092 Zurich. In an effort to increase the number of women in top academic positions, women are specifically invited to apply.

**Molecular Biosystems, Inc. (MBI)**, is a leader in the development and manufacturing of contrast agents for medical imaging, including ultrasound and MRI.

### SCIENTISTS

- Develop final formulations for MRI & CT products. Ph.D. in Pharmacy or Medicinal Chemistry with 5 years lab experience formulating organic/inorganic based drugs for solubility and tissue specific delivery. Drug delivery systems and tissue targeting experience. Knowledge of pharmaceutical operations, sterilization and cGMP regulations.
- Develop analytical methodology in support of process and product development & assembling IND and NDA's. Ph.D. in Analytical Chemistry with 5 years experience in analytical method development in pharmaceutical industry.
- Develop chemical processes for pilot plant. Ph.D. in Organic Chemistry with 5 years experience in chemical process development. Must have knowledge of cGMP regulations.

### RESEARCH ASSOCIATES

Positions available which require a BS in Chemistry with 3 years lab experience or a MS with 1 year lab experience and a background in one of the following areas:

- Familiarity with techniques in wet chemistry, analytical spectrophotometry & chromatography. Hands-on experience in HPLC, FTIR, AA, UV & autotitrimetry.
- Scale-up, formulation activities and methods development.

We offer competitive salaries, a comprehensive benefits package and a pleasant working environment. Qualified candidates should submit résumé with salary history to:

**Molecular Biosystems, Inc.**  
Human Resources Department A93-93  
10030 Barnes Canyon Road  
San Diego, CA 92121

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## Postdoctoral Research Fellow Signal Transduction

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has a postdoctoral position available immediately for an independent and highly motivated scientist interested in applying modern molecular techniques to the study of endothelin receptors and their signaling pathways. Current work is focused on the structure, function, and regulation of endothelin receptor subtypes in vascular cells (endothelial and smooth muscle), as well as cloned subtypes expressed in mammalian expression systems.

Candidates should be recent Ph.D. graduates with a background in cellular and molecular biology, biochemistry, or pharmacology.

The laboratory is in the Department of Cardiovascular Pharmacology, and collaboration with the Departments of Signal Transduction and Molecular Biology is highly encouraged. The company has strong ties to the University of Michigan and other academic institutions. Continued academic interactions and publication in leading journals is expected.

Interested persons should forward a CV and list of references to **Box JDM-55, Human Resources Department, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105**. Candidates may also fax their resumes to **(313) 996-7617** to the attention of **Box JDM-55**. "Smoke-Free Work Environment"



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## CELLULAR BIOLOGIST DRUG DISCOVERY RESEARCH

BIOFOR is searching for a *Ph.D. CELLULAR BIOLOGIST* that enjoys a multitude of challenges. Our ideal candidate will have a minimum of 2-3 years of industrial experience with training in arachidonic acid metabolism and/or immune cell modulation. We have collaborative research programs which will give you the unusual opportunity to work in close cooperation with several Nobel Laureates. This position requires a broad interest and knowledge in biochemical mechanisms and an appreciation of *in vivo* models.

BIOFOR is a growing company dedicated to developing human therapeutics through the integrated application of its' proprietary MultiCASE rational drug design paradigm and with the latest advances in biological sciences, medicinal chemistry and computational chemistry. The ideal candidate will enjoy a small company environment where you make a difference. Our salary and benefits package is competitive with industry norms, with the unusual opportunity for significant financial rewards related to your contributions. We are located in Northeastern Pennsylvania, known for its quality of life, outdoor recreational facilities and close proximity to the Northeast corridor.

Please send your resume to:  
Dr. J. C. Sircar  
Senior Vice President  
BIOFOR, INC.  
P.O. Box 629  
Waverly, PA 18471

## COMPREHENSIVE POSTDOCTORAL TRAINING IN THE CELLULAR, BIOCHEMICAL AND MOLECULAR PHARMACOLOGY OF ANTI-NEOPLASTIC AGENTS

This program provides trainees with perspectives and laboratory skills to explore the mechanisms of action of anti-cancer drugs, a rational basis for their selectivity, and their biochemical modulations and chemical modifications. The spectrum of training is broad and supported by a collaborating group of faculty with expertise in pharmacology, biochemistry, molecular biology and biophysics. Trainees are introduced to concepts in structural biology and computer modelling to prepare them for modern drug development strategies. There is an established track record of successful trainee placement in positions in academics, government or research units of the pharmaceutical industry. Trainees participate in the development of grants as part of the training experience and have an excellent record of peer-reviewed funding.

The program is supported by a longstanding NCI-funded Postdoctoral Training Grant with support for trainees for up to three years. There is extensive faculty and trainee collaboration and utilization of Massey Cancer Center Shared Resources. Starting stipend—\$25,000/yr with yearly increments. Contact Dr. I. David Goldman, Director, Massey Cancer Center, Medical College of Virginia, MCV Box 230, Richmond, Virginia 23298-0230. US citizenship or permanent residence status is required. MCV/VCU is an equal opportunity employer. Women and minorities are encouraged to apply.

# STAFF SCIENTISTS *Gene Expression*

**Targeted Genetics Corporation** is developing techniques for the treatment of infectious diseases and cancer using gene therapy. We are now hiring talented scientists with diverse backgrounds in gene expression and an enthusiasm for molecular medicine to complement our existing skill base in the Gene Expression Department

The ideal candidates will be well versed in the mechanisms of control of mammalian gene expression and DNA replication, and will have hands-on experience with a variety of gene transfer and expression vectors. Several years of postdoctoral experience would be a distinct advantage, but recent PhD graduates with a strong record of accomplishment are also encouraged to apply. The successful applicants will be expected to work in an interactive environment on projects involving regulated and constitutive gene expression in hematopoietic cells.

Targeted Genetics offers competitive salaries and an excellent benefits package, and is located in the beautiful Pacific Northwest. For consideration, please send resume to: **Targeted Genetics Corporation, Attn: GE/9-92, 1201 Western Avenue, Seattle, WA 98101.**

## Targeted Genetics Corporation

Equal Opportunity Employer

*McLean Hospital is a nationally known leader in psychiatric care. As a non-profit Harvard teaching affiliate offering a wide variety of services and programs, we are committed to advancement through research and teaching.*

## Molecular Neurobiology

**Postdoctoral/Research Associate Position.** At Harvard Medical School, Mailman Research Center, for a Ph.D. scientist with background in molecular biology to work on the molecular neurobiology of innervation and synapse formation. The research is basic neuroscience with relevance to CNS injury, neurotransmitter receptor interactions, and aging.

**Please send curriculum vitae and the names of three references to: Dr. S. Bursztajn, McLean Hospital, Mailman Research Center, 115 Mill Street, Belmont, MA 02178. Fax (617) 855-3479.**

An equal opportunity employer.



For the Good of Mind, Body and *Spirit*  
THE MGH HEALTH AFFILIATES



## THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE FACULTY POSITIONS IN PHYSIOLOGY

In the next three years the Department of Physiology will seek to fill up to 10 faculty positions at the level of Assistant, Associate and Full Professor. Candidates must have a doctoral degree, postdoctoral training and demonstrated independent excellence in research, with promise for developing a highly innovative program of investigation and graduate training. We seek candidates with creative, rigorous approaches to key physiological processes from the level of molecular structure and mechanism through systems level organization. Areas of interest include molecular neurophysiology, membrane transport and intercellular/intracellular signalling, with technical expertise in membrane biophysics, imaging, molecular structure determination, molecular biology (including transgenic methods), biochemistry and cell biology. The major activities of the department are research, direction of the graduate program in Cellular and Molecular Physiology, and medical education. Qualified candidates should submit curriculum vitae, a list of publications, up to three selected reprints and the names of three or more referees (whom we may contact) to: **William S. Agnew, Department of Physiology, The Johns Hopkins School of Medicine, 725 N. Wolfe Street, Baltimore, MD 21205.** Deadline for the first round of applications is October 30, 1992.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action employer.

## THE NEW YORK ACADEMY OF SCIENCES CALL FOR CONFERENCE PROPOSALS

The New York Academy of Sciences invites proposals for frontier conferences in all areas of science and engineering. Academy meetings frequently focus on biomedicine and neuroscience, and also cover, chemistry, computer sciences, the environment, mathematics, physics, the social sciences, and other fields.

The Academy sponsors meetings throughout the world, and provides the logistical, administrative, and fund-raising support necessary for the successful presentation and discussion of research reports. Academy conferences typically are an interdisciplinary examination of a single topic, generally have 24 to 30 speakers and poster sessions, last three days, and have about 250 attendees. Proceedings of these peer-reviewed conferences are published as volumes of the 169-year-old series, *Annals of the New York Academy of Sciences*, which are distributed internationally and are widely cited.

The Academy encourages all interested scientists and engineers to submit preliminary conference proposals. The current focus is for 1994, Conference proposals for 1995 are also welcome. Please prepare a two-page description of the meeting as you envision it, including title, key theme or rationale, the primary topics to be covered, the names of three or four senior scientists who might be on the program, and likely financial contributors. Send your preliminary proposal to:

**Geraldine Busacco**  
Conference Director

**The New York Academy of Sciences**  
2 East 63rd Street  
New York, New York 10021

Within a month after receipt of the preliminary proposal, the Academy will contact you, and if your short description is selected, invite you to submit a complete proposal. If you would like to see a typical conference program or the resulting *Annals*, or if you have any questions about organizing a major meeting, please call the Conference Department at 212-838-0230 or FAX 212-838-5640.



MYCOGEN CORPORATION, a leader in agricultural biotechnology, has the following exceptional career opportunities available at our San Diego corporate headquarters.

## RESEARCH ASSOCIATE, FERMENTATION

The successful candidate will work as part of a team responsible for the development and implementation of novel, cost effective processes for the production of biological pesticides. Requires a BS or MS degree in microbiology or a related discipline with a minimum of 1-2 years' bench scale experience in bacterial fermentation process development. Previous experience with computer controlled fermentation processes is desirable.

## MANUFACTURING ENGINEER

Responsibilities in our newly formed manufacturing group will include coordination with process development groups to monitor and improve existing processes and to bring new products through to manufacturing. The ideal candidate will have a minimum of a BS in chemical or biochemical engineering, with 2-5 years' industrial experience. Hands-on experience in scale up of biological processes, including recovery and final product formulation is preferred.

## RESEARCH SCIENTIST, PROTEIN CHEMISTRY

The successful candidate will develop, validate and document quantitation procedures for recombinant proteins and assist Product Support groups in implementation of analysis procedures. A strong background in biochemical techniques is required, as is a working knowledge of Good Laboratory Practice (GLP) standards. Experience in correlation of analytical measurements and bioassays is beneficial. Applicants should have a PhD and a minimum of 2 years' experience with protein and GLP quantitation methodologies.

## RESEARCH SCIENTIST, ANALYTICAL CHEMISTRY

The successful candidate will develop, validate and document quantitation procedures for fatty acid-based products, and will perform analyses required to support development of these products. A strong background in analytical techniques (especially gas chromatography) is required, as is a working knowledge of Good Laboratory Practice (GLP) standards. Applicants should have a PhD + 2 years' experience or MS + 4 years' experience and a minimum of 2 years' related experience in GLP quantitation methodologies.

MYCOGEN's goal of becoming a world class manufacturer of biological pesticide products requires filling each of these positions with highly motivated, innovative individuals. We offer an excellent compensation and benefits package and an exceptional work environment. For immediate consideration, please indicate position applying for and send your resume to:

## MYCOGEN CORPORATION

Human Resources Department  
5451 Oberlin Drive  
San Diego, CA 92121

Equal Opportunity Employer

## POSITIONS OPEN

**CELLULAR/MOLECULAR NEUROBIOLOGIST.** The University of Massachusetts Medical Center, Department of Neurology. An established investigator with a background and interest in studying mechanisms of neuronal aging, death and selective vulnerability in Alzheimer's disease and related disorders is sought to join an expanding Neurology Department and interdisciplinary neurobiology program. Initial appointment will be made at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Applications should include curriculum vitae, relevant reprints, a statement of research interests, and names of at least three references. Salary is commensurate with experience. Appointment effective January, 1993. Applications should be sent to: **David A. Drachman, M.D., Chairman, C/MN Search Committee, Department of Neurology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655.** An Affirmative Action/Equal Opportunity Employer.

**TWO POSITIONS/WILDLIFE SCIENTISTS.** Two 12-month tenure-track faculty positions in the Department of Zoology, with 75% time assigned to the Cooperative Wildlife Research Laboratory. (1) **ASSISTANT/ASSOCIATE PROFESSOR** with specialty in wildlife or ecotoxicology and analytical toxicology training and experience, and (2) **ASSISTANT PROFESSOR** with specialization in population ecology or other discipline that can enhance/complement toxicology program. Detailed position descriptions and other information sent upon request. Send by 15 October 1992, curriculum vitae, transcripts, description of research interests and successful contracts/grants, and name and telephone numbers of five references to:

**Dr. Alan Woolf, Director  
Cooperative Wildlife Research Laboratory  
Southern Illinois University at Carbondale  
Carbondale, IL 62901  
Telephone: (618) 536-7766**

SIUC is an Equal Opportunity/Affirmative Action Employer.

## FACULTY POSITIONS IN CELL, MOLECULAR AND STRUCTURAL BIOLOGY

Applications are invited for tenure-track positions in the Department of Cell, Molecular and Structural Biology at Northwestern University Medical School. **ASSISTANT TO FULL PROFESSOR** applicants must have a Ph.D., M.D., or equivalent degree, with research experience in cell, molecular, or structural biology. Applicants will be screened with respect to their ability to carry on vigorous independent research and to participate in the various teaching programs administered by the department. Candidates whose research interests include developmental biology, biochemistry, and structural biology are encouraged to apply, although outstanding applicants with research interests in other areas of molecular and cell biology will be considered. Send complete curriculum vitae and a brief description of research interests to: **Dr. Rex Chisholm, Chairman, Search Committee, Department of Cell, Molecular and Structural Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.**

Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.

## PROFESSOR of MARINE AFFAIRS and POLICY

Duke University invites applicants for a tenure-track faculty position at the level of **ASSISTANT, ASSOCIATE** or **(FULL) PROFESSOR** in coastal or ocean affairs and policy. The appointment will be made in the new School of the Environment and is available in the summer of 1993. The appointee is expected to: (1) be resident at the Duke University Marine Laboratory in Beaufort, NC, (2) direct the emerging professional (masters degree) program in Coastal Environmental Management, (3) conduct an aggressive program of scholarship and (4) contribute to Duke's developing curriculum in the ocean sciences and marine affairs.

Send curriculum vitae, names of three referees, and statement of scholarly and teaching interests to: **Dr. J. Ramus, Director, Duke University Marine Laboratory, Beaufort, NC 28516** by 1 November 1992. Telephone: 919-728-2111; FAX: 919/728-2514.

**Duke University  
School of the Environment  
Duke University is an Equal Opportunity/  
Affirmative Action Employer**

## POSITIONS OPEN

### PROFESSOR, ASSOCIATE PROFESSOR ASSISTANT PROFESSOR VASCULAR CELL BIOLOGIST

The Section of Surgical Biology, Department of Surgery, University of Arizona Health Sciences Center invites applications for a full-time faculty, tenure-track position. The individual should have a Ph.D. and/or M.D. degree and provide evidence of a strong research program in vascular biology. Applicants with an interest in the molecular mechanisms regulating cell-cell interactions at the blood vessel wall are especially encouraged to apply. The successful candidate will join a multidisciplinary team of cardiovascular biologists and clinicians. Rank and salary commensurate with qualifications. Submit curriculum vitae and three letters of reference to: **Stuart K. Williams, Ph.D., Chief, Section of Surgical Biology, Department of Surgery, University of Arizona Health Sciences Center, College of Medicine, Tucson, AZ 85724.** Review begins September 1, 1992 and remains open until filled. The University of Arizona is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

### YALE UNIVERSITY SCHOOL OF MEDICINE CLINICAL MICROBIOLOGIST

The Department of Laboratory Medicine at Yale University School of Medicine has an opening at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** with clinical responsibilities as Assistant Director of the Clinical Microbiology Laboratory at Yale-New Haven Hospital. The successful candidate will be expected to establish a research program, participate in the direction of the Clinical Microbiology Laboratory, and teach residents and medical students. We prefer applicants who are board certified or board eligible in Clinical Pathology and/or Medical Microbiology. Candidates must have M.D./Ph.D., M.D., or Ph.D. degree. Send curriculum vitae and addresses of three references to: **Stephen Edberg, Ph.D., A.B.M.M., Chair, Search Committee, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510** before November 10, 1992. Yale is an Equal Opportunity/Affirmative Action Employer. Women and minority applicants are encouraged to apply.

### VISITING PROGRAM DIRECTOR AND PROFESSOR (Position Number 55120)

Ph.D. in theoretical condensed matter physics and research experience in areas such as superconductivity, heavy fermion systems, modulated structures, low temperature and high magnetic field phenomena, dilute magnetic semiconductors, etc; the successful applicant will develop programs relative to the unique high magnetic field capabilities of the NHMFL.

Florida State University is an Equal Opportunity/Affirmative Action Employer.

Application Deadline: November 15, 1992. Send Applications to:

**James Ferner  
NHMFL  
1800 East Paul Dirac Drive  
Tallahassee, FL 32306-3016  
Telephone: (904) 644-0311**

### UNIVERSITY OF SOUTH FLORIDA COLLEGE OF MEDICINE SHRINERS ENDOWED CHAIR IN PEDIATRIC-ORTHOPAEDIC RESEARCH

**RESEARCH DIRECTOR/EMINENT SCHOLAR CHAIR HOLDER**—The University of South Florida (USF) Department of Surgery, in conjunction with the Shriners Hospitals of North America, is currently seeking a researcher in musculoskeletal biology at the Professor level. Applicants for the position must possess a Ph.D. or M.D. degree and have a history of sustained extramural funding. Preference will be given to individuals who have a distinguished record of research contributions and whose interests complement the mission of the Shriners Hospitals. Send curriculum vitae to: **Larry C. Carey, M.D., Chairman, USF Department of Surgery, Harbourside Medical Tower, 4 Columbia Drive, Suite 430, Tampa, FL 33606.** The University of South Florida is an Equal Opportunity Employer. Deadline for receipt of applications is October 31, 1992.

## POSITIONS OPEN

### USDA FOREST SERVICE FOREST PROTECTION RESEARCH INSTITUTE OF TREE ROOT BIOLOGY DIRECTOR AND CHIEF PLANT PATHOLOGIST

The USDA Forest Service will be seeking applicants for the position of Director and Chief Plant Pathologist in the Institute of Tree Root Biology, Athens, Georgia (administration and research). The Institute employs five scientists and six support staff. The Institute's mission is to study tree root and microbial dynamics in relation to forest tree response to natural and man-made stresses. The incumbent will develop methods of study and address responses to various types of stress by rhizosphere/rhizoplane microbes (all groups) and their function in relation to fine root dynamics on seedlings and trees. Field, greenhouse, nursery, and laboratory studies are necessary. Multi-institutional and interdisciplinary cooperative research programs of a regional, national, and international scope are required.

The position is located at the Southeastern Forest Experiment Station in Athens, GA, and frequent travel is required. Applicants must have a Ph.D. in plant pathology or related field and U.S. citizenship. Salary \$54,607 to \$64,233 depending on qualifications. For additional information contact: **Glenda Dyer, Personnel Management, Southeastern Forest Experiment Station, P.O. Box 2680, Asheville, NC 28802; Telephone 704-257-4378.**

The Forest Service is an Affirmative Action/Equal Opportunity Employer. Cultural diversity in the workplace is welcomed.

## CURATOR OF ENTOMOLOGY

The Denver Museum of Natural History is seeking a curator of entomology to begin January 1993. Duties include development and curation of insect collection (100,000 specimens), significant involvement in exhibit and public programming, and development of an active, collection-based research program. Ph.D., at least two years of curatorial experience, strong communication skills, and evidence of exhibit and public education experience required. Statement of interest, curriculum vitae, and three letters of recommendation to: **Dr. Charles R. Preston, Chair, Entomology Search Committee, Denver Museum of Natural History, 2001 Colorado Boulevard, Denver, CO 80205**, by 31 October 1992.

## CHAIRPERSON DEPARTMENT OF ANATOMY

The University of Maryland School of Medicine seeks outstanding scholar to provide leadership and new direction for the Department of Anatomy. The candidate must be a distinguished scientist with active research in a biomedical discipline relevant to anatomy in its broadest sense, preferably in the area of molecular and cell biology. The department has active research in neurosciences, reproductive biology and developmental biology. The new leadership of the School of Medicine is committed to provide the resources necessary to develop an outstanding research program.

Please send nominations or applications including curriculum vitae, research program description, bibliography and names of three references to:

**Dr. Jan Cerny  
Chairman  
Department of Microbiology and Immunology  
School of Medicine  
655 West Baltimore Street  
Baltimore, MD 21201**

An Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.

## ASSOCIATE DIRECTOR FOR RESEARCH.

Sepulveda Veterans Administration Medical Center (VAMC) UCLA-affiliated GRECC seeking M.D. or Ph.D. basic scientist studying aging or age-related diseases. Applicants must qualify for Associate or Full Professor at UCLA. Can establish strong research program. Additional funded positions, space and resources available. **Sepulveda VAMC is an Equal Opportunity/Affirmative Action Employer. U.S. citizenship required.** Send curriculum vitae and inquiries to: **Ms. Adina Katz, Sepulveda VAMC GRECC (11E), 16111 Plummer Street, Sepulveda, CA 91343.**

# Ph.D. Toxicologists

Procter & Gamble has several entry-level staff toxicology openings to be filled at our Cincinnati, Ohio; Hunt Valley, Maryland; and Norwich, New York technical centers. These positions require a Ph.D. degree, preferably in toxicology; however, degrees in pharmacology, physiology, nutritional toxicology, or other life sciences are acceptable if the training or experience meets the needs of the openings.

These positions are in applied toxicology and involve the design, implementation, and interpretation of a breadth of studies and applying the results to the development of risk assessments for new products, chemicals, and product ingredients. These toxicologists will work with multidisciplinary teams, manage contract studies, and may interact with scientists outside the company and with regulatory agencies at both state and federal levels.

Procter & Gamble is a world leader in the research, development, manufacture and marketing of a wide variety of consumer products in the health and beauty care, food and beverage, laundry and cleaning and paper products areas. Annual sales exceed \$30 billion, and the R&D budget is over \$800 million.

Candidates must be presently authorized to work in the U.S. on a full-time basis. Resumes, with a list of publications and references, should be sent to:

**Dr. N.G. Howell, Dept. T6**  
**The Procter & Gamble Company**  
**P.O. Box 398707**  
**Cincinnati, OH 45239-8707**

*No Agency referrals, please. Allow 6-8 weeks for response. An Equal Opportunity Employer.*

## Procter & Gamble



## Leicester University

### MEDICAL RESEARCH COUNCIL CENTRE FOR MECHANISMS OF HUMAN TOXICITY RESEARCH POSITIONS

The Centre for Mechanisms of Human Toxicity is a major new venture being established jointly by MRC and the University of Leicester. It will consist of the MRC Toxicology Unit (relocated from Carshalton) and teams led by members of University staff, working together to create a centre of excellence of international standing, with the emphasis on cellular and molecular mechanisms of toxicity. The scientific strategy will be focussed on work in carcinogenesis, neurotoxicology, mechanisms of cell death, metabolic activation and inactivation, and adverse drug reactions, together with relevant methodological developments.

Applications are invited for Research Fellow positions, to initiate independent research programmes within this overall strategy. The positions will be for five years, and will provide a salary (in the Research Analogous II range £17,827 - £23,739, currently under review) together with contributions to equipment and consumable

expenses. The successful applicants will be expected to build up their own research groups and to seek external funding for this.

Applications are invited for work in any of the areas indicated above, and particularly for work in **cancer molecular biology or neurotoxicology**. Collaborations with other groups in the Centre will be actively encouraged. Applications should take the form of a **curriculum vitae** and list of publications and a short research proposal (around five pages), and should be sent, with the names of two referees, to **The Director, Professor Gordon Roberts, Centre for Mechanisms of Human Toxicity, PO Box 138, Medical Sciences Building, University Road, Leicester LE1 9HN, UK (Fax 0533 523995)**. Informal preliminary enquiries are encouraged and should be addressed to **Professor Roberts or the Resources Manager, Dr. Simon Dyer**, at the same address. The closing date for applications is 30 October 1992.

**Towards equal opportunities.**





## NATIONAL UNIVERSITY OF SINGAPORE FACULTY OF SCIENCE

Applications are invited for **Faculty positions/appointments** in one of the following disciplines from candidates who must possess a relevant PhD degree. Preference will be given to those who are able to teach in more than one of the areas listed under the discipline they are applying to and with proven ability in research.

### CHEMISTRY

Analytical Chemistry  
Inorganic Chemistry (main group elements)  
Organic Chemistry  
Materials Science

### INFORMATION SYSTEMS AND COMPUTER SCIENCE

Software Engineering      EDP Auditing  
Man Machine Interfaces      Financial Modeling  
MIS      Operations Research

### PHYSICS

Materials Science      —metals and alloys, electrical and magnetic materials, electronic materials  
Surface Science      —conducting polymers, applied catalysis, ionic conducting glasses, ESCA, AES, SIMS  
Applied Nuclear Physics—PIXE, XRF, RBS, ion channeling, radiation physics

Experimental Solid State Physics  
Computational Physics

### COMPUTATIONAL SCIENCE PROGRAMME

Geometric Modelling and Scientific Visualization  
Computer Architecture  
Parallel Processing  
Statistical Computing

Besides appointments on normal 3-year contracts, **visiting appointments** for one or two years will also be considered. Gross annual emoluments range as follows:

Lecturer	S\$50,390–64,200
Senior Lecturer	S\$58,680–100,310
Associate Professor	S\$88,650–122,870
(US\$1.00 = S\$1.60 approximately)	

The commencing salary will depend on the candidate's qualifications, experience and the level of appointment offered.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance of S\$1,000 or S\$2,000, subsidized housing at nominal rentals ranging from S\$100 to S\$216 p.m., education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

There are eight faculties in the National University of Singapore with a current student enrollment of some 18,000. All departments are well-equipped with a wide range of facilities for teaching and research.

All academic staff have access to the following computer and telecommunication resources: an individual microcomputer (an IBM AT-compatible or Apple Macintosh); an IBM mainframe computer with 16 MIPS of computing power; an NEC SX supercomputer with 650 MFLOPS of computing power; departmental laser printers; a wide spectrum of mainframe and microcomputer software; voice-mail. A campus-wide network, which is based on the high speed optical fibre based FDDI technology, links up all the academic staff and student microcomputers, UNIX workstations and provides access to the mainframe computer, the supercomputer, UNIX hosts, the on-line library catalogue, Internet and BITNET.

Application forms and further information on terms and conditions of service may be obtained from:

**The Director  
Personnel Department  
National University of Singapore  
10 Kent Ridge Crescent  
Singapore 0511**

Enquiries may also be sent through **BITNET to: PERPL@NUS3090**, or through **Telefax: (65) 7783948**

## “MINORITIES IN SCIENCE... A SEARCH FOR SOLUTIONS”

### 13 NOVEMBER ISSUE COVER STORY IN SCIENCE

In a first-time cover story, the 13 November issue of Science explores the complex problems and obstacles facing minorities as they work and compete in the scientific community.

#### HIGHLIGHTS INCLUDE:

**AFFIRMATIVE ACTION PROGRAMS  
CAREER PROFILES  
BARRIERS FACING MINORITIES  
THE SEARCH FOR SOLUTIONS**

#### BENEFITS OF ADVERTISING IN THIS SPECIAL ISSUE:

• **More Visibility.** Strategically located in the main body of the magazine, next to career-related editorial. • **Harvey Research Study** measures reader awareness and retention of your ad.

#### BONUS DISTRIBUTION:

**Reprints distributed to:** Minority Access to Research Centers • Minority Biomedical Research Support Program • National Hispanic Leadership Conference • National Network of Minority Women in Science • National Organization for the Advancement of Black Chemists and Chemical Engineers • National Puerto Rican Coalition • National Technical Association. *In addition to these organizations, many more will receive this section for use through mailings and at meetings.*

**Don't miss this first time advertising opportunity!**

**Contact Janis Crowley at  
(212) 496-7704.**

**Space Reservation Deadline:  
Tuesday, October 27**

#### RESEARCHER

R5, Position number 86082, Hawaii Natural Energy Institute, School of Ocean and Earth Science and Technology, University of Hawaii, 11-month appointment, temporary, full-time, non-tenure track position, state extramural funds, to begin approximately December 1, 1992. DUTIES: Conduct research and manage program in ocean technology. Write and prepare research proposals and secure extramural funding. MINIMUM QUALIFICATIONS: Ph.D. in engineering or related field. Five years of academic experience in engineering and ten years of industrial engineering practice. Knowledge of ocean resource applications, floating structures and ocean energy. Proven experience in joint industry-government-academic projects. MINIMUM SALARY: \$70,164.00 per year. Inquiries: Dr. Patrick Takahashi (808) 956-8346. To apply, send a statement of interest, curriculum vitae and three letters of recommendation to Personnel Officer, Hawaii Natural Energy Institute, University of Hawaii, 2540 Dole Street, Holmes 246, Honolulu, Hawaii 96822. Closing date: October 13, 1992.

#### RESEARCHER

##### (Research Professorship for the Blue Revolution)

R5, Position number 86081, Hawaii Natural Energy Institute, School of Ocean and Earth Science and Technology, University of Hawaii, 11-month appointment, permanent, full-time, tenure-track position, state funds, to begin approximately February 1, 1993. DUTIES: Conducts research and manages interdisciplinary program in ocean resource systems. Writes and prepares research proposals and secures extramural funding. MINIMUM QUALIFICATIONS: Ph.D. in engineering or related field. Ten years of experience in ocean resource systems technology and development, plus an academic background in engineering. Considerable knowledge in ocean mariculture, floating structures and marine biotechnology systems. Demonstrated experience with funding agencies and management of research projects and teams, including chairing national and international meetings in ocean and energy topics. MINIMUM SALARY: \$78,924 - \$103,872 per year; commensurate with experience. Inquiries: Lois Nagahara (808) 956-2329. To apply, send a statement of research and teaching interests, curriculum vitae and three letters of recommendation to Personnel Officer, Hawaii Natural Energy Institute, University of Hawaii, 2540 Dole Street, Holmes 246, Honolulu, Hawaii 96822. Closing date: October 13, 1992.

The University of Hawaii is an Equal Opportunity/Affirmative Action Institution and encourages women, minorities, handicapped, and veterans to apply.

#### NIH AIDS POSTDOCTORAL FELLOWS MEETING

March 28 - April 4, 1993

Keystone, Colorado

The meeting will be held in conjunction with the Keystone Symposia on Frontiers in HIV Pathogenesis, and Pediatric HIV Infections. Topics will include HIV molecular biology and regulation; strategies for designing vaccines and anti-HIV agents; pathogenic mechanisms including the central nervous system, early acute infection, immune deficiencies, tropism, and virus variation; and epidemiology of HIV transmission and progression. The meeting will provide opportunities for interaction with leading AIDS researchers through plenary lectures, poster sessions, oral presentations, and tutorials.

#### Travel Assistance for Minorities

Funds will be provided to a limited number of minority scientists to attend the meeting in order to encourage participation of minority groups that are underrepresented in AIDS research (African Americans, Alaskan Natives, Native Americans, Hispanics, and Pacific Islanders). Minority scientists eligible for travel assistance are full-time predoctoral students, postdoctoral fellows, junior faculty, and physicians in training who either are engaged in or are planning careers in AIDS research.

For registration forms, application forms for travel assistance, or further information contact:

NIH AIDS Postdoctoral Fellows Meeting  
c/o Keystone Symposia  
Drawer 1630

Silverthorne, CO 80498

Telephone: (303) 262-1230; Telefax: (303) 262-1525

Submission deadline for registration forms and travel assistance applications is December 2, 1992.



#### SENIOR SCIENCE ADVISOR CONSERVATION AND RENEWABLE ENERGY \$73,972 to \$108,300 Per Annum

The U.S. Department of Energy, Conservation and Renewable Energy, is seeking applicants for a Senior Science Advisor. The incumbent will serve as the principal advisor to the Assistant Secretary for Conservation and Renewable Energy on planning, development and execution activities for conservation and renewable energy research and development programs. Programs encompass wind, hydrogen and ocean technology; use of solar energy, photovoltaic and biomass power, biofuels and alternative motor fuels development; and research in building and industrial energy use. The incumbent will review overall planning, resource allocations, and evaluation of national and international programs, including strategy development and program integration activities.

Candidates must have experience in energy conservation and renewable energy technology, preferably as a senior specialist or program manager in such fields. Candidate must possess at least a bachelor's degree or equivalent in physical science, engineering, or a closely related engineering science such as mechanics, dynamics, properties of materials, or electronics. Advanced degrees preferred.

Difficulty in recruitment may result in a relocation/recruitment bonus, waiver of dual compensation or annual pay set up to \$138,900.

The Department of Energy is an equal opportunity employer.

To apply, submit a Standard Form (SF-171), "Application for Federal Employment." Applications must be postmarked no later than October 18, 1992.

For additional information and forms please call directly to:  
Executive Resources Management Division,  
AD-55, FORS, DOE  
Washington, D.C. 20585  
Telephone: 202/586-8450

JCU



#### PROFESSOR OF CLINICAL BIOCHEMISTRY AUSTRALIA

This is a new position in the Department of Chemistry and Biochemistry at James Cook University established in conjunction with the Northern Regional Health Authority. The appointee will be responsible for developing undergraduate courses in medical and clinical biochemistry and initiating a major postgraduate program in the general area of medical biochemistry. It is envisaged that the appointee will be involved in teaching with the University of Queensland at the North Queensland Clinical School, an initiative for the education of medical students. Where appropriate the appointee may hold a conjoint position with the Pathology Department of the Townsville General Hospital and be available for consultancy services to that Department. It is anticipated that a suitable appointee would head the Division of Biochemistry within the Department of Chemistry and Biochemistry and may supervise its transition to a full department.

A research degree in an appropriate area of biochemistry, a proven record in medical research and experience in developing joint research programs with hospital clinicians is required. Appropriate teaching and administrative experience is essential. Possession of medical qualifications would be an advantage.

Tenure: Appointment will be for a period of five years in the first instance.

Salary: A\$77,900 a year. In the case of a medically qualified appointee, a clinical loading of A\$13,484 a year will also be payable.

Further information and application forms may be obtained from the Personnel Manager, James Cook University of North Queensland, Townsville 4811 Queensland, Australia. Applications close on 6 November 1992. In reply please quote reference number J192061.

Equal Opportunity in Employment is University Policy. The University has a "Smoke-Free Working Environment" Policy.

**JAMES COOK UNIVERSITY**  
OF NORTH QUEENSLAND

## Staff Physiologist Department of Radiology University of Toronto

The Department of Radiology at the University of Toronto is seeking to employ a full-time physiologist interested in an academic career in medical imaging. The responsibilities of the physiologist include:

### 1 Research

The thrust of the physiologist's work is to build a research program in "functional imaging"—the use of imaging to investigate normal and abnormal biologic function. The Department of Radiology has at its disposal every modern imaging modality including: standard radiography, digital radiography, angiography, ultrasound, nuclear medicine, CT, whole body MR, small bore MR and positron emission tomography. In addition, the Department has a fully equipped animal laboratory with a full-time research assistant, and a close and active collaborative relationship with the Department of Medical Biophysics for the development of new imaging methods. There is also an active program in whole organ imaging with the Department of Medicine Membrane Biology Group.

The successful candidate is expected to initiate research projects, manage on-going research projects, and supervise graduate students, radiology residents and Fellows. Job responsibilities also include advice on the scientific content of grant applications and manuscripts from other faculty in the Department of Radiology. Demonstrated ability to work productively with others would be a strong asset.

### 2 Teaching

The physiologist is expected to develop an appropriate curriculum for a basic sciences lecture series and to lecture on these topics for approximately 2 hours per month. The physiologist is also expected to organize lectures for the department by Visiting Professors, and to organize seminars to be given by residents and Fellows.

### 3 Reporting Relationship

The physiologist should be self-motivated, able to work under minimal supervision but also be able to work productively in a group. The physiologist reports to the Director of Research and is ultimately responsible to the Chairman of Radiology.

### 4 Academic Requirements

A Ph.D. or M.D., Ph.D., in Physiology or related field. Work experience in medical imaging or related field would be an asset but not an essential requirement.

### 5 Salary & Benefits

Commensurate with academic rank and experience.

Effective date of appointment, November 1, 1992. Closing date for receipt of applications, October 15, 1992.

Please include curriculum vitae and 3 letters of reference and address enquiries to:

Walter Kucharczyk, MD, FRCP(C)  
Professor and Chairman  
Department of Radiology  
University of Toronto  
Rm. 127, FitzGerald Building  
150 College Street  
Toronto, Ontario  
M5S 1A8  
Canada

The University of Toronto encourages applications from qualified men and women, members of visible minorities, aboriginal peoples and persons with disabilities.

In accordance with Canadian Immigration requirements, this advertisement is directed first to Canadian citizens and permanent residents.

## POSITIONS OPEN

### CURATORIAL POSITION IN ORNITHOLOGY

The Carnegie Museum of Natural History announces a search to fill an ASSISTANT CURATOR position in the Section of Birds. Requirements include a Ph.D. degree, active research interests, and experience in working with museum collections. The Section of Birds holds major collections of study skins, skeletons, and alcoholic specimens; the candidate will be expected to base his/her research program in part on use of these specimen resources. Laboratory facilities are available for biosystematic tissue studies to supplement traditional museum specimen techniques. The candidate will be expected to apply for grant support for research projects. Responsibilities include liaison with the Museum's education and exhibit staff, supervision of volunteers and subcuratorial personnel, and public communication. The Section operates the largest inland bird-banding program in North America at the Museum's 2200-acre field station in the Pennsylvania mountains, and the candidate is encouraged to become involved in this program, including exploitation of over 30 years of computerized data. Salary at appointment will depend on previous experience. Applicants should send curriculum vitae, names of three references, and a statement of anticipated future research program(s) to: **Dr. Kenneth C. Parkes, Section of Birds, The Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15213, no later than 15 November 1992.**

### MCGILL UNIVERSITY ROYAL VICTORIA HOSPITAL MOLECULAR ONCOLOGY GROUP

The Royal Victoria Hospital and McGill University in Montreal seek a **DIRECTOR** for a Molecular Oncology Group consisting of four independent investigators working in modern, well equipped, contiguous laboratories. Laboratory space for the Director and for an additional independent researcher to be recruited by the Director are available. Academic affiliation will be with the Research Division of the Department of Oncology and the Department of Medicine, McGill University. The Director's position is tenured or tenure-track. The starting date would be the Summer of 1993. Candidates should currently be at the Associate Professor level or higher and must be carrying out a vigorous research program in the molecular or cell biology of cancer or developmental biology. Funds for equipment and start-up are available. In keeping with Canadian immigration requirements, preference will be given to Canadian citizens and permanent residents of Canada, but others are encouraged to apply; in addition, McGill University is committed to equity in employment. Please submit curriculum vitae, copies of recent publications, an outline of current research interests, and the names, addresses, and telephone numbers of three references before 13 November 1992 to: **Dr. W.D. Dauphinee, Chairman, Department of Medicine, McGill University, Royal Victoria Hospital, 687 Pine Avenue West, Room A3.09, Montreal, Quebec, H3A 1A1.**

### CHAIR, DEPARTMENT OF PSYCHOLOGY

Applications and nominations are invited for the position of professor (tenured) and Chair of the Department of Psychology at the University of Maryland, College Park (College of Behavioral and Social Sciences). Candidates should have a distinguished record of scholarship, a nationally recognized research program, a commitment to graduate and undergraduate teaching, and strong evidence of professorial and academic administrative leadership. Candidates should have a commitment to affirmative action and to working with faculty and students with diverse interests. Send a letter of nomination or application to: **Dr. Jonathan Wilkenfeld, Chair, Search Committee, Department of Government and Politics, University of Maryland, College Park, MD 20742.** Applicants should also send curriculum vitae, and names, addresses, telephone and FAX numbers of at least three individuals who could be contacted as references. For best consideration, applications should be received by October 15, 1992.

*We particularly encourage nominations of women and minorities. The University of Maryland actively subscribes to a policy of Equal Educational and Employment Opportunities.*

# SIBIA

*SIBIA is expanding its interdisciplinary research on therapeutics for neurodegenerative disorders. We are currently seeking candidates with experience in several areas, as follows:*

### **MOLECULAR AND CELLULAR BIOLOGY,**

including cloning, cell culture and mammalian cell expression techniques;

### **NEUROPHARMACOLOGY,**

including *in vitro* and *in vivo* functional assay techniques ranging from single cell studies on cloned receptor subtypes to behavioral paradigms; and

### **MEDICINAL CHEMISTRY,**

including organic synthesis, peptide synthesis and modeling as it relates to receptor ligands and enzyme inhibitors.

*SIBIA offers a salary commensurate with experience, excellent benefits, a superior work location and a national reputation. Send CV with names of three references to: Lynn Alba, c/o SIBIA, 505 Coast Boulevard South, Suite 300, La Jolla, CA 92037. EOE.*

## Tumor Immunologist/ Biologist

Baxter Healthcare Corporation, Bartels Diagnostics Division, a leading biomedical manufacturer and research facility, has an immediate opening for a self-motivated, results-oriented and creative Tumor Immunologist/Biologist.

Acting as project leader, you will conduct research in the area of immunotherapy and chemotherapy with direct applications to patient care.

Requirements include a PhD and good documentation skills, preferably with previous industrial experience. Qualified candidates will have knowledge in the following areas:

- immune therapy of neoplastic diseases
- T cell activation and expansion
- immune mediated tumor regression
- the role of cytokins in tumor regression

We offer a solid, stable work environment, complemented by competitive salaries and an outstanding benefits program. For consideration, please send your resume to: **Human Resources Department S-925, Baxter Healthcare Corporation, Bartels Diagnostics Division, P.O. Box 3093, Bellevue, Washington 98009.** We are an equal opportunity employer m/f/d/v.

**Bartels Diagnostics Division**

# Baxter

## POSITIONS OPEN

### CHAIR OF BIOLOGY Search Extended

Applications are invited for the position of Chairperson of the Department of Biology at the University of Louisville, a state University with 23,000 students. The Department has 18 faculty with 450 undergraduate majors and 50 students in M.S. and Ph.D. programs. The Department confers a Ph.D. in Environmental Biology across a broad spectrum of research interests ranging from molecular to ecosystem studies. Preference will be given to candidates whose research programs employ modern techniques and complement current Departmental strengths in environmental biology, including molecular systematics, bioremediation, physiological ecology and aquatic ecology. Candidates are expected to have prior administrative experience, an outstanding record of research and extramural funding, and the academic credentials necessary for appointment as **PROFESSOR** with tenure. Screening of completed applications will start October 19, 1992. Send curriculum vitae, statement of research interests, and names and addresses of three references to: **Dr. Joseph M. Steffen, Search Committee Chairman, Department of Biology, University of Louisville, Louisville, KY 40292.** *The University of Louisville is an Equal Opportunity, Affirmative Action Employer. African-Americans, women, and other minorities are encouraged to apply.*

### DIRECTOR OREGON REGIONAL PRIMATE RESEARCH CENTER

The President of the Oregon Health Sciences University (OHSU) and the Board of Trustees of the Medical Research Foundation of Oregon (MRF) invite applications for the position of Director, Oregon Regional Primate Research Center (ORPRC). Sponsored by the NIH and MRF, ORPRC conducts basic and applied research with simians and other species uniquely suited for the solution of human health problems. ORPRC scientists also provide graduate and professional training. Center scientists have joint appointments and research collaborations at OHSU, Portland, Oregon.

Candidates are expected to be highly-regarded scientists employing state-of-the-art techniques in research programs that complement interests at ORPRC in developmental and reproductive sciences, neurosciences, molecular medicine or the pathobiology of metabolic and infectious diseases. Experience in academic or scientific administration is also important. Prior experience involving primate research is preferred. Send curriculum vitae with funding history, career goals, relevant experience and names of four references by October 31, 1992, to: **Ms. Laurie Schweiker, ORPRC, 505 N.W. 185th Avenue, Beaverton, OR 97006, telephone: (503) 690-5210.** *MRF/ORPRC is an Affirmative Action/Equal Opportunity Employer.*

**DIRECTOR, GASTROENTEROLOGY RESEARCH:** Roger Williams Medical Center (RWMC) seeks a physician BC/BE in Internal Medicine/Gastroenterology to serve as Director of its Gastroenterology Research Division. Candidates must qualify for appointment to the Brown University faculty as **ASSOCIATE/FULL PROFESSOR** of Medicine. Requirements include a national/international reputation as an independent investigator, preferably in an area of research that complements the ongoing research efforts at the Cancer Center, and demonstrated ability to compete successfully for external grant support. Approximately 75% of time will be devoted to research. Additional requirements include skills in research administration and strong leadership abilities.

The successful candidate will develop, maintain and evaluate all research activities in the Division of Gastroenterology at the Medical Center. Responsibilities include the supervision of undergraduate and graduate educational programs in the Division and at Brown University. Clinical duties include some participation on the inpatient and outpatient services. Interested candidates should send curriculum vitae by October 29, 1992 to: **A. B. Weitberg, M.D., Chairman, Search Committee, Roger Williams Medical Center, 825 Chalkstone Avenue, Providence, RI 02908.** Screening of applicants will begin on that date and continue until the search is successful or terminated. *RWMC is an Equal Opportunity/Affirmative Action Employer and actively solicits applicants from minority and protected groups.*

香港大學



**THE UNIVERSITY  
OF HONG KONG**

### Reader/Senior Lecturer/Lecturer in Psychology (Ref. 92/93-5)

Applications are invited for a Readership/Senior Lectureship/Lectureship in the Department of Psychology, tenable from January 1, 1993 and in either of the following areas:

- (1) Clinical Psychology
- (2) Applied Cognitive Psychology and Ergonomics

For (1), the appointee should have a Ph.D. degree with specialization in clinical psychology, and at least fifteen years of postdoctoral experience. Relevant working experience should include senior level administration of clinical programmes, teaching of postgraduate clinical psychology courses in a university setting, professional practice in clinical and consulting psychology, and research publications in clinically-related areas. In addition, familiarity with the Hong Kong culture and its clinical services system is highly preferable. The appointee shall function as the lead member in the Department's postgraduate clinical psychology programme. He or she shall be responsible for the programme's day-to-day administration, and participate in its teaching, supervision and research activities. Some undergraduate teaching may also be involved.

For (2), the applicant should have a Ph.D. degree with specialization in ergonomics, human performance and cognitive psychology. Research experience in experimental investigation of a relevant nature is required. Some teaching experience at an undergraduate level is preferred. Preference will also be given to applicants with a record of publications in related areas. In addition, familiarity with Hong Kong is preferable. The successful candidate will be required to teach undergraduate courses in the fields of ergonomics and cognitive psychology, and also to conduct experimental research in areas of interest.

Annual salaries (superannuable: under review) are on the scales: Reader HK\$501,120 - HK\$665,700 (9-points) (approx. US\$64,246 - 85,346); Senior Lecturer HK\$480,360 - HK\$645,300 (9 points) (approx. US\$61,585 - 82,730); Lecturer HK\$309,120 - HK\$516,480 (11 points) (approx. US\$39,630 - 66,215) (Equivalent as at August 21, 1992). Starting salary will depend on qualifications and experience. At current rates, salaries tax will not exceed 15% of gross income. Children's education allowances, leave and medical benefits are provided; housing or tenancy allowances are also provided at a charge of 7.5% of salary.

Further particulars and application forms may be obtained from the Faculty Secretary, Faculty of Social Sciences, The University of Hong Kong, Hong Kong (Fax (852) 517 0806; E-mail: HUUR-SOC@HKUVM.HKU.HK).

Closes: 13 November 1992.

ROCHE

Photodamage

## DERMATOLOGY POSTDOCTORAL FELLOW

At Hoffmann-La Roche, an established leader in the pharmaceutical industry, our ongoing Research Division programs in acne and skin photoaging have created an excellent opportunity.

This challenging position will focus on applying methods of recombinant DNA technology to problems involving the action of retinoids on the repair of photodamaged skin. Qualifications include a Ph.D. in Biochemistry, Cell Biology or Pharmacology. Demonstrated expertise in molecular biological techniques along with a working knowledge of the biochemistry and physiology of skin are desirable.

The Roche research environment is designed to encourage and foster personal and professional growth. Interested individuals should send a curriculum vitae, indicating past, current and future research interests, to: **Mrs. Jane Jusinski, Hoffmann-La Roche Inc., Nutley, New Jersey 07110.** We are an equal opportunity employer.

ROCHE

**Hoffmann-La Roche**

**Ferris State University  
College of Arts and Sciences  
HEAD, DEPARTMENT OF  
BIOLOGICAL SCIENCES**

The College of Arts and Sciences, Ferris State University, invites nominations and applications for the administrative position of Head of the Department of Biological Sciences. The position begins July 1, 1993. The department of 16 faculty and 4 support staff offers professional and career-oriented programs. The department offers undergraduate degrees in Applied Biology, Biotechnology, and Ornamental Horticulture.

The qualifications for this position include an earned doctorate in one of the biological sciences; scholarship and teaching experience appropriate to senior faculty rank; experience and familiarity with a broad spectrum of biology ranging from freshman general education coursework to upper-level specialty courses; ability to work with faculty in a broad array of disciplines including both liberal arts and technical fields; experience with curriculum evaluation and development; ability to evaluate and manage financial, capital, and human resources; high degree of organizational, leadership, and interpersonal skills; and demonstrated personal qualities of integrity and industriousness.

Ferris State University is Michigan's premier applied polytechnic university, providing career-oriented education to over 12,400 students. More than 120 undergraduate programs and selected graduate programs are offered at FSU's 600-acre campus in Big Rapids, Michigan; a number of programs are also offered at off-campus locations.

Applications should consist of a cover letter, current vita, names and phone numbers of three references, and unofficial transcripts, which should be forwarded as soon as possible. Screening of applications will begin November 1, 1992, and continue until the position is filled. Send inquiries and applications to:

Walter D. Hoeksema, Ph.D.,  
Biology Search Committee Chair  
c/o Sue K. Hammersmith, Dean  
College of Arts and Sciences  
Ferris State University  
Starr 120  
Big Rapids, MI 49307-2295

We are an equal opportunity affirmative action employer.

**POSITIONS OPEN**

**DIRECTOR, DIVISION EXPERIMENTAL PATHOLOGY.** The Department of Pathology and Laboratory Medicine of the University of Rochester is conducting a search for a scientist to be appointed Director of the Experimental Pathology Division and George Hoyt Whipple Professor of Pathology and Laboratory Medicine. Research goals of this newly reorganized division center on the elucidation of the cellular and molecular basis of human diseases. The appointee will provide leadership to enhance and expand the scientific endeavors of the Department through recruitment of additional faculty and graduate and post-graduate trainees and coordination of current programs in the division. Applications from individuals with M.D., M.D./Ph.D., or Ph.D. degree are welcome.

Interested candidates should submit by November 15, 1992 curriculum vitae and other credentials to: **Search Committee for Director, Experimental Pathology Division: c/o Dean A. Arvan, M.D.; Department of Pathology and Laboratory Medicine, University of Rochester Medical Center, 601 Elmwood Avenue, Box 608, Rochester, NY 14642 (USA); Telephone: 716/275-5891. The University of Rochester is an Equal Opportunity Employer (M/F).**

**DIRECTOR OF MOLECULAR DIAGNOSTICS**

University of Massachusetts Medical Center, Department of Clinical Pathology and Hospital Laboratories, is seeking a candidate for a new position of Director of Molecular Diagnostics. A successful candidate will have an M.D. or Ph.D. degree, with specialization in molecular biology/molecular genetics and experience in practical applications to a clinical setting. i.e., cytogenetics, HLA tissue typing, microbiology, and pre-natal carrier state investigations. The individual will have experience in teaching, research, and generating extramural funding. Faculty rank and salary will be commensurate with experience.

Candidates please send résumé to: **L. Michael Snyder, Department of Pathology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655. An Affirmative Action/Equal Opportunity Employer.**

**CHEMIST/BIOCHEMIST**

Kemin Industries, Inc. a leading manufacturer of animal feed ingredients has an immediate opening in its research and development department for a **RESEARCH MANAGER**. The Research Manager will report directly to the Vice President of R & D, and will have principal responsibility for invention of new products in the area of enzyme additives to animal feeds. Major job functions also include assays, outside oral presentations and animal trials with associated travel and report writing. The successful candidate is required to have an advanced degree in biochemistry or an allied field. Experience in animal nutrition is helpful, but not required. Experience with enzyme kinetics, classical enzyme purification techniques and *in vitro* modeling is desired. Job offer is conditional on passing a medical examination including a drug screen. *Smoking is prohibited in all buildings. Kemin Industries is an Equal Opportunity Employer.* Please forward your résumé to: **Dr. C. E. Nelson, Vice President of Research and Development, P.O. Box 70, Des Moines, IA 50301.**

**LABORATORY DIRECTOR, BIOLOGICAL SCIENCES.** Our client, an innovative Bay Area pharmaceutical company, is seeking an experienced and creative Mycologist to oversee the discovery and preclinical development of potential therapeutics with antifungal activity. S/he will supervise scientific and technical personnel in pharmacology/toxicology, mycology and virology, as well as act as liaison between the company and its corporate partner, a major pharmaceutical company. The successful candidate will have at least five years of pharmaceutical industry experience, a strong working knowledge of mycology and several years of experience in drug development. S/he will also possess excellent interpersonal communications, management and leadership skills. The position requires a Ph.D. in infectious diseases, mycology, virology or a similar area. Qualified candidates should submit their résumé, list of publications and cover letter by October 9, 1992 to: **Jürgen Weber, Ph.D., BioQuest, 100 Spear Street, Suite 1125, San Francisco, CA 94105-1522. Our client is an Equal Opportunity Employer. Women and minorities are encouraged to apply.**

**POSITIONS OPEN**

**BIOCHEMICAL GENETICS  
LABORATORY DIRECTOR**

**VIVIGEN LABORATORIES** is seeking an M.D. or Ph.D. candidate, ABMG certified or board eligible, to direct the Biochemical Genetics Laboratory. The candidate should have experience in human biochemical genetics with emphasis on prenatal screening and diagnosis as well as significant experience in managing a technical production staff.

Vivigen's high quality, state of the art laboratories are located in Santa Fe in Northern New Mexico, which offers clear skies, no congestion, spectacular sunsets, and a wide variety of social and outdoor activities. Please send curriculum vitae to: **David H. Lockwood, Ph.D., Vivigen, Inc., 2000 Vivigen Way, Santa Fe, NM 87505. Vivigen is an Equal Opportunity Employer.**

**COLUMBIA-PRESBYTERIAN MEDICAL CENTER-NEW YORK CITY. RESEARCH DIRECTOR.** The Department of Anesthesiology is developing a new position for an M.D., M.D./Ph.D., or Ph.D. to direct our research effort. We are developing a significant financial base for research, with the goal of establishing an endowed chair, to enable a qualified scientist to build an outstanding research program. We seek an established investigator with extensive research experience in anesthesiology or related fields (pharmacology, physiology, neurobiology), who would be willing and able to direct and encourage younger investigators, while carrying out his/her own research. This individual should be skilled and accomplished in writing grant applications and have been awarded outside funding for research. Please submit curriculum vitae, current grant support, and a cover letter outlining scientific research interests and career goals to: **Edward D. Miller Jr., M.D., E.M. Papper Professor and Chairman, Department of Anesthesiology, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

**SITE MANAGER  
APACHE POINT OBSERVATORY**

We seek an individual with excellent technical management skills to assume responsibility for instruments, facilities and operations at Apache Point Observatory. Duties include assisting the Site Director in planning and budget preparation. Excellent oral and written communication skills are required. The Site Manager must be able to train, motivate and work effectively with the resident technical staff and interact well with visiting scientists and engineers. A strong experimental background with demonstrated instrumentation skills is desired. A bachelor's degree in engineering or the physical sciences, with five years of related experience, is required. Salary will be commensurate with background and experience. Apache Point Observatory, located in the Sacramento Mountains near Sunspot, New Mexico, is operated for the Astrophysical Research Consortium by New Mexico State University (NMSU) which offers a competitive benefits package. A complete educational and employment history and a statement of salary requirements must be received by 15 November 1992. Reply to: **Professor Kurt S. J. Anderson, Site Director, Apache Point Observatory; Department of Astronomy, New Mexico State University, Box 30001, Las Cruces, NM 88003-0001. NMSU is an Affirmative Action/Equal Employment Opportunity Employer.**

**THREE FACULTY POSITIONS** are open in the Graduate Department of Nutrition of Case Western Reserve University. The fields are (1) clinical and metabolic investigations using stable isotopes (mass spectrometry, NMR), (2) molecular nutrition emphasizing the development of treatments for nutritional disease, and (3) applied human nutrition. Candidates are expected to develop independent research programs, participate in graduate teaching and in the training of graduate and postdoctoral students. Send curriculum vitae, representative reprints, outline of research program and teaching interests, and three letters of reference by November 30, 1992 to: **Dr. Henri Brunengraber, Chairman, Department of Nutrition, Case Western Reserve University, Cleveland, OH 44106. Case Western Reserve University is an Equal Opportunity Employer and encourages applications from minorities and women.**



**THE WISTAR  
INSTITUTE**  
invites applications  
for Assistant  
Professor level  
positions in the  
following research  
programs:



We are an equal opportunity employer.

- **Developmental Biology** - The program focuses on the molecular control of mammalian embryogenesis with a thrust on pre- and early post-implantation embryogenesis. We seek expertise in development of the hemopoietic, nervous and cardiovascular systems.
- **Molecular Genetics** - The aim of the program is to understand the mechanisms involved in gene expression, malignancy and tumor progression. We are looking for expertise in genome analysis, in gene transfer and in homologous recombination.
- **Molecular Immunology** - The program conducts research in: the molecular regulation of immune cells, the molecular basis of tolerance and autoimmunity and the molecular basis of B and T cells responses to viruses. We are interested in an investigator working in the field of cell-cell interactions and signalling in the immune system and/or molecular mechanisms of activation of lymphocytes and inflammatory cells.

The Wistar Institute is located on the University of Pennsylvania campus and is equipped with the latest biotechnology support facilities. Send curriculum vitae and the names of three references to:

Faculty Search Committee  
THE WISTAR INSTITUTE  
36th & Spruce Streets  
Philadelphia, PA 19104

**CHAIRMAN**

**Department of Electrical, Computer, and Systems Engineering**

Boston University's College of Engineering invites applications and nominations for the position of Chair, Department of Electrical, Computer, and Systems (ECS) Engineering. We anticipate a tenured faculty appointment at the rank of Professor for a prominent researcher with excellent leadership skills along with administrative and teaching experience.

In recent years Boston University has invested more than \$110 million in new science and engineering facilities, and has significantly enhanced the scope and prominence of research and graduate programs in engineering while maintaining the strength of our undergraduate programs. The ECS Department now consists of 35 full-time faculty, teaching and performing research in diverse areas including materials and devices, electromagnetics, space science, software engineering, computer communications, VLSI/CAD, speech and signal processing, and computer testing. Collaborations with other University departments, local facilities such as the Massachusetts Microelectronics Center, and Boston-area industry contribute to the research environment of the department. There are presently about 50 doctoral candidates, 250 master's students, and 500 undergraduates in our ABET-accredited programs.

The new Chair will be expected to provide academic and administrative leadership in a period of continued departmental growth and development, while pursuing a significant research program of his or her own. Considerable resources and infrastructure have been and will be put in place to help make this a realistic expectation for an outstanding candidate.

Direct applicants should send a letter of interest, curriculum vitae, and the names of three references. Indirect nominations should include information about the prospective candidate, and the nominee's vita if possible. Full review of applications will begin November 1, 1992. All correspondence should be addressed to: Search Committee - ECS Chair, Boston University, 44 Cummington Street, Room 301, Boston, MA 02215.

**BOSTON  
UNIVERSITY**

**COLLEGE OF ENGINEERING**

*An equal opportunity, affirmative  
action institution.*

**CELL BIOLOGY**

**Full Professor (C4)**

**University of Münster  
FR-Germany**

The University of Münster has established a research center for "Molecular Biology of Inflammation." It will finally comprise five new institutes and five associated research groups. The first three institutes for molecular virology, infectiology and experimental pathology have been founded. For the forth institute the position of a full professorship (tenure) in cell biology is now offered. The appointee candidate will be director of the newly founded institute in accordance with the regulations of § 29 WissHG.

Applicants should have a scientific interest in one of the cell systems, involved in inflammatory processes, preferentially the endothelium, and should be experienced in molecular biology. Participation in regular basic teaching is expected. Applicants from abroad are encouraged.

Please send curriculum vitae, bibliography, an outline of research interests and of teaching experiences to:

*Dekan der Medizinischen Fakultät, Domagkstraße 3,  
D-W-4400 Münster, FR-Germany.*

Closing date: October 30, 1992

Telephone: 0049251/835490; Telefax: 0049251/835004.

## POSITIONS OPEN

**FACULTY POSITION.** The Department of Biochemistry of the University of Vermont College of Medicine has available a full-time (12-month appointment) tenure-track position. Rank and salary are negotiable and commensurate with experience and accomplishments. Preference will be given to established investigators with demonstrated expertise in structural biology, such as the use of NMR or X-ray crystallography in the characterization of macromolecules. Applications from other investigators whose interests and skills are compatible with current research programs in the Department are invited, and will be carefully considered. The person selected will be expected to maintain a high quality, externally-funded, independent research program, to participate in the teaching programs of the Department, and to assume appropriate administrative obligations. Please send a résumé, including a description of research interests, career goals, present and past research support, and the names of three references to: **Chair, Search Committee, Department of Biochemistry, Given Building, University of Vermont, College of Medicine, Burlington, VT 05405.** The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic and cultural backgrounds are encouraged to apply. Applications will be accepted until the position is filled.

### FACULTY POSITION

**MOLECULAR BIOLOGY AND NUTRITION SCIENCE.** The Institute of Biosciences and Technology, Texas A&M University, located in the Texas Medical Center, Houston, Texas, invites applications for a tenure-track faculty appointment (level open). The applicant must have a record of accomplishments in cell or molecular biology with relevance to the field of nutritional sciences, and an interest in clinical and/or animal model studies in nutrition. Applicants should have a Ph.D. or M.D. Applicants should submit a letter outlining their research experience and future interests related to nutritional sciences; curriculum vitae; three recent reprints of their scientific publications; and names of three individuals who may be contacted to provide letters of reference to: **Dr. Charles J. Arntzen, Institute of Biosciences and Technology, 2121 Holcombe Boulevard, Suite 703, Houston, TX 77030-3303.** A review of applications will begin on October 1, 1992. The Texas A&M University System is an Affirmative Action/Equal Opportunity Employer.

### FACULTY POSITION IN BIOCHEMISTRY

Applications and nominations are invited for a tenure-track faculty position in the Department of Biochemistry, Purdue University. Preference will be given to individuals whose research emphasizes molecular biological approaches which could be applied to the plant sciences or related fields of study. Candidates must have postdoctoral training, a strong research record, and be capable of developing and continuing a vigorous research program. The individual selected for this position will participate in the instructional program of the department which encompasses undergraduate, graduate, and medical curricula.

Curriculum vitae, names and addresses of three individuals who can supply letters of reference, and a two-page summary of research interests are required for an application. The screening of applications will commence upon receipt of applications and continue until the position is filled.

Search Committee  
Purdue University  
Department of Biochemistry  
1153 Biochemistry Building  
West Lafayette, IN 47907-1153 U.S.A.

**PURDUE UNIVERSITY IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.**

**FACULTY POSITIONS.** Applicants with strong molecular and genetic backgrounds who are interested in the following areas are invited to apply: viral and/or cellular gene expression in animal cells; the molecular basis of viral diseases in humans; viral pathogenesis. In particular, individuals with independent research achievements working with herpes, papilloma, RNA tumor viruses and/or oncogenes are encouraged to apply. Applications, including a one-page research summary, should be sent to: **Dr. Peter Palese, Department of Microbiology, Box 1124, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** An Equal Opportunity Employer.

## POSITIONS OPEN

**MICROBIOLOGY.** Entry level, tenure-track; to teach introductory microbiology and introductory biology, and to develop molecular biology course. Ph.D. required, 15 credit hours per quarter. To be filled either 1 January or 1 September 1993. Strong commitment to undergraduate teaching, including research projects. Augusta College is a 5500-student, senior unit of the University System of Georgia. Application deadline 5 October 1992. Send curriculum vitae, a statement of teaching philosophy, and names, addresses and telephone numbers of three references to: **Dr. William Wellnitz, Biology Department, Augusta College, Augusta, GA 30910.** Augusta College is an Affirmative Action/Equal Opportunity Employer and specifically invites and encourages applications from minorities and women.

### INSTRUCTOR DEPARTMENT OF PHARMACOLOGY

The Department of Pharmacology at U.T. Southwestern Medical Center invites applications for an Instructor position. The successful applicant should have the Ph.D. degree or equivalent in biochemistry and a strong background and publication record in the purification and characterization of contractile proteins associated with non-muscle motility. Specific experience with neuronal myosin is also necessary. Salary is negotiable depending on qualifications. Applicants should send curriculum vitae and names of three references to: **Dr. Joseph P. Albanesi, Department of Pharmacology, U.T. Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041.** U.T. Southwestern Medical Center is an Equal Opportunity Institution.

### FACULTY POSITION: MOLECULAR VIROLOGY

The Division of Molecular Virology at Baylor College of Medicine invites applications for a tenure-track faculty position. Rank is open and dependent on qualifications. An innovative scientist is sought, and an established research program is desirable. Of particular interest are research topics involving viral receptors, persistent/latent infections, viral immunology, and molecular biology of viral replication. Outstanding applicants in other areas of virology also will be considered. Applicants should have a Ph.D. or M.D./Ph.D., postdoctoral experience in molecular virology, and demonstrated research productivity. The successful applicant is expected to pursue an independent research program and to participate in graduate training. This appointment offers an excellent opportunity to join an expanding academic department with newly renovated laboratories and well-equipped support facilities. Current faculty research activities focus on the molecular basis of viral replication, viral gene expression, viral oncogenes, viral pathogenesis, and disease prevention. Send curriculum vitae, names/addresses of at least three references, a statement of current research activities, and a description of future plans by December 1, 1992, to: **Dr. Mary Estes, Faculty Recruitment Committee, Division of Molecular Virology, Baylor College of Medicine, Houston, TX 77030.** An Equal Opportunity/Affirmative Action Employer.

### CARDIOVASCULAR MOLECULAR BIOLOGY AND GENETICS

The rapid growth of the Cardiovascular Research Center at the Medical College of Wisconsin has opened new opportunities for expanded research in cardiovascular-related molecular biology and genetics. The Departments of Physiology, Pharmacology, and Medicine are seeking to fill **THREE FULL-TIME FACULTY POSITIONS** with scientists who have training in areas related to cardiovascular function. Candidates must have a Ph.D. and/or M.D. degree with three or more years of postdoctoral research experience in mammalian molecular genetics. Skills of value would include techniques of retroviral vector design and construction, gene targeting, homologous recombination, transgenics, selective breeding approaches, etc. Demonstration of independent research with a willingness to engage in collaborative programmatic funding efforts. Primary faculty appointments will be made in each respective department. Interested individuals should submit curriculum vitae and a list of three references to: **A. W. Cowley, Ph.D., Department of Physiology, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226.** Equal Opportunity/Affirmative Action Employer M/F/D.

## POSITIONS OPEN

**PROFESSIONAL EDUCATOR** to develop innovative non-traditional methods of surgical instruction to teach the psychomotor skills and manipulative techniques necessary to practice surgery.

Desirable qualifications include advanced training in education, experience teaching psychomotor skills in health-related or highly technical occupations and experience with computer-aided teaching methods.

Submit curriculum vitae, list of publications, and names of at least four references to: **Dr. J. Pascoe, Department of Surgery, School of Veterinary Medicine, University of California, Davis, CA 95616.** Applications accepted through November 1, 1992, or until a suitable candidate is identified. The University of California is an Affirmative Action/Equal Opportunity Employer.

**ACADEMIC CARDIOLOGISTS.** Tulane University. A developing Cardiology Section seeks academically committed individuals for tenure-track positions. A variety of opportunities are available in invasive and noninvasive cardiology, electrophysiology and basic research. Academic rank will be commensurate with experience and abilities. Applications will be accepted until a qualified candidate is selected. Interested individuals should send curriculum vitae and names of three references to: **Andrew J. Buda, M.D., Chief, Cardiology Section, SL-48, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112.** Affirmative Action/Equal Opportunity Employer.

### CASE WESTERN RESERVE UNIVERSITY FACULTY POSITION

The Department of Molecular Biology and Microbiology at Case Western Reserve University School of Medicine invites applications for a junior or intermediate level, tenure-track position from individuals interested in the basic biology of prokaryotes. We are interested in individuals with research interests in molecular aspects of microbial pathogenesis, the molecular genetics of bacteria or bacteriophage, or microbial responses to environmental stimuli. The Department offers minimal teaching responsibilities, close faculty interaction, and an expanding graduate student population, all of which contribute to an excellent research environment. Collaborations within the University and among the Medical School faculty are encouraged. Competitive start-up funds will be available to the successful applicant. Applications will be reviewed starting November 1, 1992 and will continue until the position is filled. Candidates should submit curriculum vitae, a statement of research interests and the names of three references to:

**Dr. Fritz Rottman, Chairman  
Department of Molecular Biology and Microbiology  
Case Western Reserve University School of Medicine  
10900 Euclid Avenue  
Cleveland, OH 44106-4960**

The Division of Biology, California Institute of Technology, seeks **TWO FACULTY MEMBERS** in the areas of Cell Biology and Immunology. Appointments will be for tenure-track positions. Successful applicants are expected to generate creative and productive research programs. Candidates should forward curriculum vitae, list of publications, a brief statement of research interests and plans, and arrange for letters of recommendation from three referees to be sent to: **Ms. Joyce Kato, Immunology and Cell Biology Search Committee, Division of Biology 147-75, California Institute of Technology, Pasadena, CA 91125.** The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.

### PLANT/MAIZE MOLECULAR GENETICIST

The Department of Zoology and Genetics seeks applicants for a **TENURE-TRACK POSITION** at any academic level. Plant molecular biologists using genetic approaches will be given special consideration. Laboratory and greenhouse space are available in the new molecular biology building, and generous start-up funds will be provided. Modest teaching responsibilities are determined by the interest and expertise of the individual. Application deadline is November 15, 1992 or until the position is filled. Send curriculum vitae, a description of future research, and three letters of reference to: **Alan G. Athlerly, 2216 Molecular Biology Building, Iowa State University, Ames, IA 50011.**



THE R.W. JOHNSON  
**PHARMACEUTICAL RESEARCH INSTITUTE-SYDNEY**  
*Johnson-Johnson Research Pty. Limited*

The RW Johnson Pharmaceutical Research Institute-Sydney is accepting applications for Senior Scientist, Scientist, and Postdoctoral Fellow positions. Johnson & Johnson have recently established RWJ PRI-Sydney in modern research laboratories at Rushcutter's Bay near the center of Sydney. The Institute is closely associated with St. Vincent's Hospital, The University of New South Wales, and a number of Australian and international collaborators.

The RWJ PRI-Sydney research program focuses on genetic strategies for the treatment of human disease and is composed of two interacting programs: an Anti-Viral Unit and a Gene Therapeutics Unit. Work within the Anti-Viral Unit concentrates on agents effective against human viruses and research on human haematopoietic stem cells and cancer. Research in the Gene Therapeutics Unit explores the design, delivery, and genetics of nucleic acid sequences which efficiently neutralise disease genes *in vivo*.

Postdoctoral and Scientist positions require a PhD or MD degree, a strong background in cell and/or molecular biology, a record of accomplishment, and a commitment to gene therapy. The Institute has an interdisciplinary basic and applied research program where scientific productivity including publication is the major priority for advancement. RWJ PRI-Sydney offers attractive remuneration packages, a stimulating research environment, and significant opportunity for professional development. All enquiries will be held in confidence and should be sent with names, addresses, and contact numbers of three referees to:

**Dr. Wayne Gerlach, Director**  
**RW Johnson Pharmaceutical Research Institute-Sydney**  
**GPO Box 3331, Sydney 2001 NSW, Australia**  
**FAX: 61-2-360-9813**

## Cortner-Couch Chair in Cancer Research

H. Lee Moffitt Cancer Center & Research Institute at the University of South Florida is seeking a senior scientist to fill the Cortner-Couch Chair in Cancer Research, an endowed position established to advance cancer research in the broadest sense.

The individual sought should be a senior researcher, M.D. or Ph. D., qualified for the rank of professor in an appropriate academic department. He or she should have evidence of an established research program, an extensive publication record, and be capable of leading a program in signal transduction, developmental therapeutics, molecular biology, or immunology.

For the individual who can serve as program chief, the endowed chair allows flexibility in funding. Substantial space is available in a new Research Center. Moffitt Cancer Center is committed to contributing to fundamental advances in the basic sciences. This position may be tenure earning.

Send inquiries and current Curriculum Vitae to John C. Ruckdeschel, M.D., Center Director/CEO, Moffitt Cancer Center, Office of Faculty Recruitment, 12902 Magnolia Drive, Tampa, Florida 33612. Deadline for receipt is October 24, 1992.

H. Lee Moffitt Cancer Center & Research Institute, adjacent to the Health Sciences Center on the University of South Florida campus in Tampa, includes a 162-bed inpatient and ambulatory cancer facility for children and adults, a 20-bed bone marrow transplantation program and a new research facility.



**H. LEE MOFFITT CANCER CENTER  
& RESEARCH INSTITUTE**  
**University of South Florida College of Medicine**

Moffitt Cancer Center is an Equal Opportunity Employer.  
The University of South Florida is an Affirmative Action Equal Opportunity Employer.

## HYGEIA Pharmaceuticals, Inc.

### Staff Scientist Positions

- Protein Chemist
- Molecular Biologist

HYGEIA Pharmaceuticals, Inc., will be seeking MS and Ph.D. level individuals to join our team of scientists on large-scale purification of antibodies. Preference will be given to candidates who have had experience in protein chemistry; in particular MAb isolation and purification.

In addition, individuals at the MS and Ph.D. level are being sought to join our molecular biology team. Preference will be given to those candidates who have had experience in cloning and sequencing of antibody and tumor antigens.

Interested candidates should forward their curriculum vitae to:

**Human Resources**  
**HYGEIA Pharmaceuticals, Inc.**  
**6555 Nancy Ridge Dr., #300**  
**San Diego, CA 92121**

**EQUAL OPPORTUNITY EMPLOYER**

## FACULTY POSITION IN DEVELOPMENTAL BIOLOGY

The Center for Advanced Biotechnology and Medicine (CABM) and the Department of Pediatrics, UMDNJ-Robert Wood Johnson Medical School are seeking an outstanding investigator for joint appointment as a tenure-track faculty member. Applicants should hold a PhD and/or MD degree and have a strong commitment to a basic research program in fundamental aspects of development. The successful candidate will occupy new laboratory space in the CABM building and join a growing life sciences community on the Busch campus where there are opportunities to participate in a variety of UMDNJ and Rutgers University graduate programs. Please provide a CV, brief research plan and 3 references to **Dr. Aaron J. Shatkin or Dr. David Carver, Search Committee, 679 Hoes Lane, Piscataway, NJ 08854-5638**. The UMDNJ is an Affirmative Action/Equal Employment Opportunity Employer, m/f/h/v.



**CENTER FOR  
ADVANCED  
BIOTECHNOLOGY  
AND  
MEDICINE**

CABM is a molecular biology research program jointly administered by UMDNJ, NJ's university of the health sciences, and Rutgers University. It is funded by the NJ Commission on Science and Technology and by industry, public and private sources.

## Harvard Medical School F A C U L T Y Signal Transduction & Cellular Regulation

The Joslin Diabetes Center with the support of the Lucille P. Markey Charitable Trust is expanding its program in signal transduction and cellular regulation. Positions are available for qualified M.D.s and/or Ph.D.s with expertise in the areas of peptide hormone, growth factor, and cytokine action, hormonal regulation of gene expression, vascular cell biology, molecular genetics and transgenic animal research as it might apply to studies of the pathogenesis of diabetes or its complications. Academic appointment at Harvard Medical School appropriate to seniority. Women and minorities are encouraged to apply.

Interested individuals should send a curriculum vitae and the names and telephone numbers of three possible references to **Dr. C. Ronald Kahn, Joslin Diabetes Center, One Joslin Place, Boston, MA 02215**.

An Equal Opportunity Employer



**Joslin Diabetes  
Center**

North America's premiere technology transfer company has a challenging opportunity for a

### Technology Transfer Associate

Applicants must have experience in technology assessment, financial analysis, product planning and marketing; an MBA; and an advanced degree in chemical engineering or chemistry.

The business involves evaluating the technical feasibility and commercial potential of university based technologies, determining appropriate commercialization strategies, coordinating intellectual property activities and implementing the selected approach to marketing the technology.

Send résumé and salary requirements in confidence to:

Director  
Physical Sciences Group  
Research Corporation  
Technologies  
6840 E. Broadway  
Tucson, AZ 85710

Equal opportunity employer



RESEARCH  
CORPORATION  
TECHNOLOGIES

### WAYNE STATE UNIVERSITY FACULTY POSITIONS DEPARTMENT OF CHEMISTRY

The Department of Chemistry, Wayne State University is seeking to fill faculty positions in the following areas.

**BIOCHEMISTRY.** Associate or Full Professor. We are seeking a person with an established research record who will complement bio-related research and teaching in other areas of a research-active chemistry department and assume a leadership role in a vigorous, young division of biochemistry.

**INORGANIC.** Assistant or Associate Professor. We are for a person working in any contemporary area of inorganic chemistry who shows unusual promise as a researcher and teacher.

**ORGANIC.** Assistant or Associate Professor. We are interested in a person who shows unusual promise as a researcher and teacher and whose area of research compliments existing programs.

Candidates should send a curriculum vitae, list of publications, and a brief description of research plans. Assistant Professor applicants should arrange to have three letters of reference sent directly. Senior applicants will be consulted for letters of evaluation.

Applicants should respond by Oct. 16, 1992. Review of candidates will be completed and interviews begin shortly thereafter. We strongly encourage applications from minorities and women. Respond to:

PROF. RICHARD L. LINTVEDT, CHAIR  
217 CHEMISTRY  
WAYNE STATE UNIVERSITY  
DETROIT, MI 48202

Wayne State University is an Equal Opportunity/Affirmative Action employer.

## THE LADY DAVIS FELLOWSHIP TRUST

P.O. BOX 1255, JERUSALEM 91904, ISRAEL  
TEL. / FAX 972-2-663848.

### GRADUATE, POST-DOCTORAL AND PROFESSORIAL FELLOWSHIPS FOR 1993-94 AT THE HEBREW UNIVERSITY OF JERUSALEM OR THE TECHNION-ISRAEL INSTITUTE OF TECHNOLOGY, HAIFA

**Graduate and Post-Doctoral Fellows** are selected on the basis of demonstrated excellence in their studies and promise of distinction in their chosen fields of specialization.

**Graduate Fellowships** at Hebrew University are only intended for students enrolled in a Doctoral program abroad who wish to study or use library facilities here. At Technion, Fellowships are awarded at Master's and Doctoral levels.

**Post-doctoral applicants** to the Hebrew University may apply not later than 3 years after completion of their doctoral dissertation.

**The Fellowships** are tenable for one academic year and may be extended for another year. The grant covers travel, tuition fees and reasonable living expenses.

**Visiting Professorships** are intended for candidates with the rank of Full or Associate Professor at their own institution. They are tenable from one semester to a full academic year. The grant includes a professorial salary and travel.

Deadline : November 30, 1992

Requests from applicants (including Israelis), indicating category of Fellowship, should be sent to above address.

## Space Life Sciences Research Division of Biology Kansas State University

**Graduate** and **Postdoctoral** training opportunities are available in cellular and developmental biology, supported by:

- ☆ NASA Specialized Center of Research and
- ☆ Training (NSCORT) in Gravitational Biology ☆

#### Research Areas Include:

- ☛ Developmental and molecular genetics
- ☛ Organ development and tissue culture
- ☛ Signal transduction mechanisms
- ☛ Cytoskeletal regulation of morphogenesis
- ☛ Extracellular matrix and development
- ☛ Plant and animal model systems

#### Interested?

#### Contact:

Space Life Sciences  
Division of Biology  
201 Ackert Hall  
Kansas State  
University  
Manhattan, KS 66506  
FAX: 913-532-6653

Kansas State University is an equal opportunity/affirmative action employer.



## VIAGENE, INC.

Viagene is a leader in developing gene transfer drugs for the treatment of viral diseases and cancers. The company's lead drug, an HIV immunotherapeutic, has progressed to human clinical testing, and Viagene's R&D pipeline includes a growing portfolio of new viral and cancer immunotherapeutics.

### DIRECTOR OF MEDICAL AFFAIRS



In collaboration with the VP, Clinical Development and Regulatory Affairs, you will develop and implement clinical program strategies for the earliest approvals of Phase I-IV studies, as well as related PLA and ELA submissions; supervise and counsel clinical personnel; prepare clinical protocols and related documents; and ensure timely and scientifically valid reports of clinical studies. Candidates will be prepared with an MD and/or PhD (specialization in Internal Medicine, Infectious Diseases or Hematology/Oncology) and 4-10 years of biotech or pharmaceutical industry experience.

Our company culture fosters the scientific challenge and collaboration essential for professional development. Excellent benefits and our location in one of America's most attractive centers of biotechnology make Viagene a productive next step. Please send your CV to: Attn: Human Resources/SDM, Viagene, Inc., 11075 Roselle Street, San Diego, CA 92121. EOE.

### SALEM-TEIKYO UNIVERSITY POSITIONS OPEN

Salem-Teikyo University of Salem, West Virginia, and Tampa Bay Research Institute of St. Petersburg, Florida, plan to develop a joint Graduate Program in Biotechnology. In anticipation of the establishment of this program, several positions at the rank of Assistant, Associate or Professor levels will be considered:

The focus of the research will be in the study of human virus latency and persistent infection. Related area of studies such as oncogene, regulation of gene expression, lymphokine/cytokine studies will also be considered. Capability of teaching in the area of enzyme, membrane, protein and/or nucleic acids at the graduate level will be desirable.

Salem-Teikyo University, already committed to strengthen its Undergraduate training in Molecular Biology/Biotechnology, is planning to establish a Graduate Program to be implemented in the Fall of 1993.

Successful candidates will have their research programs located at the Tampa Bay Research Institute facility in St. Petersburg, Florida.

Tampa Bay Research Institute is based in a modern facility with excellent individual laboratory and office space, and centralized facilities including a Biotechnology Service Laboratory, transgenic mice and in-house DNA sequence database.

Investigators will enjoy complete freedom to pursue their research goals. While generous program support is provided, scientists are expected to secure extramural funding.

Applicants should have a Ph.D. or equivalent. Interested individuals should send curriculum vitae, list of publications, a short statement of research achievements, and names and addresses of three references to the **Chairman, Search Committee, Salem-Teikyo University, Salem, WV 26426**. Applications are accepted until the vacancies are filled.



## A new focus on Aging.

Geron Corporation, located in the San Francisco Bay Area, is pioneering new approaches to treat age-related degenerative diseases and cancer. Our advances in cellular and molecular gerontology will allow us to develop entirely new categories of therapeutics.

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## POSITIONS OPEN

**FACULTY POSITION in Natural Resources Remote Sensing, Photogrammetry, and GIS, University of California, Berkeley**, to start July 1, 1993. **ASSISTANT or ASSOCIATE PROFESSOR** (tenured level depending on qualifications); 50/50% teaching/research. Ph.D. in natural resources required. Preference to applicants with B.S., M.S., or Ph.D. in forestry or closely related field. Expertise to include digital remote sensing, photointerpretation, photogrammetry, GIS and computer applications to inventory and monitor wildland resources. Applicant needs strong background in statistics and biometrics, knowledge of global positioning systems, and strong interest in conducting original research in remote sensing and its applications to natural resource problems. Teaching responsibilities include an undergraduate course in photointerpretation/photogrammetry or GIS, a graduate seminar in remote sensing and GIS, and participation in Summer Field Instruction. Send application, résumé, list of publications, transcripts and three letters of reference prior to November 10, 1992 to: **Dr. Greg Biging, Chair, Search Committee, Department of Forestry and Resource Management, 145 Mulford Hall, UCB, Berkeley, CA 94720**. For more information and full position description, call collect (510) 642-1249. *University of California, Berkeley, is an Equal Opportunity/Affirmative Action Employer.*

### THE SCHOOL FOR FIELD STUDIES in conjunction with Northeastern University FULL-TIME FACULTY POSITIONS AND SUMMER FACULTY

**Conservation Biologists and Resource Management Professionals** needed for various worldwide locations—Baja, Mexico; Caribbean; Costa Rica; Kenya; and Australia. **QUALIFICATIONS:** Ph.D. preferred, M.S. minimum, field and research experience in the region, two years of teaching at the undergraduate level or applied experience, leadership abilities, management experience, and the ability to live in a remote field setting with 32 undergraduates in an interdisciplinary teaching environment. **TO APPLY:** Send curriculum vitae, a detailed letter explaining skills and experience to: **SFS Faculty Search, The School for Field Studies, 16 Broadway, Beverly, MA 01915**.

**NEUROSCIENTISTS**—Full-time, tenure-track faculty positions open for neuroscientists (neurobiologists, neuroendocrinologists) with experience at the cellular/sub-cellular level (cell/molecular biology). Team-teaching responsibility in gross-, microscopic-, or neuro-anatomy. Rank and salary commensurate with credentials and experience. Please send current curriculum vitae, a statement of research interests and three references directly to: **Dr. James C. Story, Chairman, Department of Anatomy and Cell Biology, Meharry Medical College, 1005 D. B. Todd Boulevard, Nashville, TN 37208, by October 15, 1992.** *An Equal Opportunity/Affirmative Action Employer.*

**CLINICAL NEUROPHYSIOLOGIST** position open in MEG Center, Albuquerque VA Medical Center with a **TENURE-TRACK FACULTY** appointment in the Department of Neurology, University of New Mexico (UMC) School of Medicine. Level of appointment may vary with qualifications of the candidate. Applicant must be a BE/BC physician with experience in clinical neurophysiology. He/She is expected to assume a major responsibility in the clinical program of MEG Center which is operated jointly by the VAMC, UNM and Los Alamos National Laboratory and is committed to evaluation of MEG as a tool for clinical and basic neuroscience. Other responsibilities will be in clinical neurology at UNM. Submit résumé to: **Prof. Y. Okada, Chair, Search Committee, MEG Center (101), VAMC 2100 Ridgecrest Drive, S.E., Albuquerque, NM 87108.** *All non-VA applicants tentatively selected for the position are subject to a urinalysis to screen for illegal drug use prior to appointment. Applicants who refuse to be tested will be denied employment with VA. Closing date applications is October 31, 1992. VAMC and UNM are Affirmative Action/Equal Opportunity Employers.*

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## POSITIONS OPEN

The Institute of Paper Science and Technology (IPST) is seeking applicants for two **FACULTY POSITIONS** that involve teaching at the graduate level, research project leadership, graduate student advising, and participation in industry-sponsored research on tree propagation. Qualifications include a Ph.D. in Biology with a record of scientific publication, research, and teaching experience in biochemistry, molecular biology, or tissue culture. Applicants should send a cover letter, résumé, and the names of three professional references to: **IPST Personnel Manager, 575 14th Street, Atlanta, GA 30318.** *Equal Employment Opportunity/Affirmative Action Employer M/F/V/H.*

### RETROVIROLOGY FACULTY POSITION MEDICAL COLLEGE OF WISCONSIN

The Department of Microbiology invites applications for a tenure-track faculty position in retrovirology. Individuals with demonstrated research competence in molecular biology, immunology, or pathogenesis—areas which complement funded research programs within the department—are encouraged to apply. The position offers the opportunity for collaboration with investigators in the Cancer Center, Bone Marrow Transplant Program, Blood Research Institute, and three major hospitals, all of which are located in adjoining buildings on the 250-acre suburban campus of the Milwaukee Regional Medical Complex. The successful applicant will be provided with research space, equipment, and start-up funds and the opportunity to participate in graduate training. Faculty rank will be commensurate with qualifications. Candidates should submit curriculum vitae, statement of research interests and experience, and a list of three references to:

**Retrovirology Search Committee  
Department of Microbiology  
Medical College of Wisconsin  
8701 Watertown Plank Road  
Milwaukee, WI 53226.**

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### CELL/MOLECULAR BIOLOGIST

The Department of Biological Sciences at the University of Notre Dame invites applications for a tenure-track faculty position from individuals with expertise in cell biology. The successful candidate is expected to develop and maintain an active research program. Areas of research interests include, but are not restricted to, membrane and organelle dynamics, intercellular communication, signal transduction, and cellular regulation. Teaching responsibilities will be one course per semester and will likely include an advanced undergraduate lecture and laboratory course in cell biology. The University of Notre Dame offers competitive salary, seed money, and state of the art research facilities. Applicants should submit curriculum vitae, a statement of research and teaching interests, and names of three references by November 15, 1992, to: **Dr. Joseph E. O'Tousa, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556.** *The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer.*

### PARASITE IMMUNOLOGIST

The Department of Biological Sciences, University of Notre Dame, invites applications for a tenure-track position in **PARASITE IMMUNOLOGY**. Applicant's areas of interest should include immunological aspects of host-parasite relationships. We offer seed money, modern research laboratories, a competitive salary, outstanding animal care facilities, and macromolecular synthesizers, sequencers, NMR, FACS, university and departmental computer support. An NIH-funded Parasitology-Vector Biology Training Grant Program offers pre- and postdoctoral support. Responsibilities include the direction, development and maintenance of a vigorous research program, the direction of graduate students and teaching a course in basic immunology, and one other in an area of the candidate's expertise. Submit curriculum vitae, three representative publications, names of three references and a statement of teaching and research interests to: **Dr. Howard J. Szal, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556.** Applications will be reviewed starting November 1, 1992. *Notre Dame is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL FACULTY POSITION

Candidates are sought for a research associate/assistant professor level position to help run research programs focusing on accelerated atherosclerosis and left ventricular remodeling post infarction. A background in cardiovascular molecular biology is desirable. Position requires background in southern and northern blot analysis, reporter gene assays, RNase protection assays, gene sequencing, *in situ* hybridization, etc. The individual should expect to develop independent research projects within this program, have a Ph.D. or M.D./Ph.D., appropriate postgraduate training, and a publication record demonstrating productivity and expertise. The candidate will join a core group of four investigators working in this area. An attractive package of salary and benefits, start-up funds, and laboratory space is committed for this recruitment. Submit curriculum vitae, names of three references, and a short statement of research interests to: **Bernard R. Chaitman, M.D., Director, Division of Cardiology, Saint Louis University Medical Center, Cardiology Division, 3635 Vista Avenue at Grand Boulevard, P.O. Box 15250, St. Louis, MO 63110-0250.** *Equal Employment Opportunity/Affirmative Action Employer M/F/H/V.*

**POSTDOCTORAL POSITION.** Available immediately, to study *in vitro* signal transduction mechanisms and regulation of collagen/cytokine gene expression and mitogenesis associated with liver cell activation. Experience in molecular biology techniques highly desirable. Send curriculum vitae and names of three references to: **Dr. Bernard H. Davis, University of Chicago, Department of Medicine, 5841 South Maryland Avenue, M/C 4076, Chicago, IL 60637.** Telephone: (312) 702-1467. *Equal Employment Opportunity/Affirmative Action.*

**TWO POSTDOCTORAL POSITIONS** are available immediately to study molecular and cellular bases of glucose transporter function and its regulation by insulin. Send curriculum vitae, a brief letter of interest, and names of three references to: **Dr. Chan Y. Jung, Biophysical Sciences, SUNY/AB, VA Medical Center, 3495 Bailey Avenue, Buffalo, NY 14215.**

**POSTDOCTORAL AND RESEARCH ASSISTANT POSITIONS.** Research in human molecular genetics and genetic epidemiology including gene mapping and DNA sequencing studies of several major diseases. Experience in molecular genetics or statistical genetics highly desirable. Send résumé and letters of reference to: **Dr. Scott R. Diehl, Human Genetics & Psychiatry, Box 710, Medical College of Virginia, Richmond, VA 23298-0710.** *VCU is an Equal Opportunity/Affirmative Action Employer. Women, minorities and persons with disabilities are encouraged to apply.*

### RESEARCH BIOLOGIST, AGRO-ECOLOGY ARCHBOLD BIOLOGICAL STATION

Applications are sought for a new, permanent Research Biologist to conduct and coordinate ecological research at the MacArthur Agro-ecology Research Center, a division of the Archbold Biological Station in south-central Florida. Biologist conducts an original research program, and helps coordinate research projects by multiple investigators on a 4,000 hectare cattle ranch, 13 kilometers east of Archbold's headquarters property. Research at the Center emphasizes interactions among commercial cattle and citrus production, wildlife, aquatic systems, plant communities, and nutrient flow. Field of study by Research Biologist may be in any of these or related fields, including landscape ecology. Excellent facilities and research budget. Opportunity exists to direct students at the University of Florida. Ph.D. is required, research experience in agricultural systems is strongly preferred. Send curriculum vitae, letter of interest, and name/address/phone of three references by November 15, 1992 to: **Agro-ecology Search, Archbold Biological Station, Box 2057, Lake Placid, FL 33852.**

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## PREDOCTORAL AND POSTDOCTORAL TRAINING OPPORTUNITIES IN PLANT BIOLOGY AT STANFORD UNIVERSITY

We announce a new interdisciplinary training program jointly sponsored by the Department of Biological Sciences of Stanford University and the Department of Plant Biology, Carnegie Institution of Washington, Stanford, CA. The program theme is *Plants in the Environment: from Molecules to Global Change*. The program is supported by a five year grant from NSF/USDA/DOE, and funds are available to support both predoctoral and postdoctoral scholars. Research areas include plant molecular biology, genetics, cell and developmental biology, physiology, ecological physiology, and global modeling. **Predoctoral students** should request an application for the Ph.D. program from the Student Services Office-PB1, Dept. Biological Sciences, Stanford, CA 94305-5020. Graduate applications are due 15 December 1992. **Postdoctoral scholars** should request an application kit and a description of proposed interdisciplinary projects from Professor Virginia Walbot, Dept. Biological Sciences, Stanford CA 94305-5020, FAX 415-723-6132. Applications will be considered up to 1 December 1992 for positions starting as early as January 1, 1993; applications received by May 1, 1993 will be considered for positions starting after September 15, 1993.

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## DEPARTMENT OF PHARMACOLOGICAL AND PHYSIOLOGICAL SCIENCE

Saint Louis University Medical Center

Applications are invited for faculty positions in the **Department of Pharmacological and Physiological Science** at Saint Louis University Medical Center. Positions are tenure track appointments at the **Assistant or Associate Professor** level. We offer an environment rich in senior level scientific experience, start up funds, laboratory space and a record of highly successful and continuing extramural research funding. Preference will be given, but not restricted, to individuals with demonstrated experience in the application of molecular biology to research in the nervous, cardiovascular and endocrine systems. Interested persons should send a curriculum vitae, three letters of reference and a description of research interests and objectives to:

**Dr. Thomas C. Westfall**  
**Professor and William Beaumont Chair**  
**Department of Pharmacological and**  
**Physiological Science**  
**Saint Louis University Medical Center**  
**1402 South Grand Boulevard**  
**St. Louis, MO 63104**

*Saint Louis University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

U.S. DEPARTMENT OF ENERGY

## P OSTGRADUATE RESEARCH PROGRAMS

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**Postgraduate Research Programs**  
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P.O. Box 117  
Oak Ridge, TN 37831-0117  
(615) 576-7385

Medical College of Virginia/Virginia Commonwealth University is seeking candidates for a tenure-track position as Assistant Professor in Neural Sciences in the School of Basic Health Sciences. Applicants must have an advanced degree (e.g., Ph.D., M.D., or equivalent degree) and should have 2 or more years of postdoctoral experience. The successful candidate is expected to be able to interact with a large and diverse group of Neuroscientists throughout the University. The candidate should also exhibit the potential to develop and maintain an outstanding research program with extramural funding. Evidence of prior extramural funding and a researcher whose interests focus on Cognitive, Developmental, Molecular/Cellular and/or Systems Neuroscience, and which complement existing emphasis in visual/visuomotor, special senses, substance abuse and neuronal dysfunction/repair is preferred. The candidate is expected to demonstrate the potential to teach health professionals and graduate students. Candidates should send a copy of their curriculum vitae, names and addresses of 3 references, and a letter describing research interests by November 30, 1992 to **Dr. Barry E. Stein, Neural Science Curriculum, Box 493, Virginia Commonwealth University, Richmond VA 23298-0493**. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply. Position description available upon request.

## Post Doctoral Research at The Wistar Institute

The Wistar Institute, an independent research organization located on the campus of the University of Pennsylvania, is currently seeking Post Doctoral applicants interested in cancer-oriented research. Wistar has maintained a reputation for pioneering work and ground-breaking accomplishment since its founding nearly 100 years ago.

Fellows can anticipate a stimulating and challenging experience in the tradition of strong interdisciplinary collaboration within an environment utilizing state-of-the-art biotechnology. Wistar's general areas of research interest include: Molecular Genetics, Molecular Virology, Experimental Therapeutics, Cell & Molecular Immunology and Structural Biology.

Interested applicants are requested to send a Curriculum Vitae and the names of three references to: **Coordinator of Research Training, THE WISTAR INSTITUTE, 36th & Spruce Streets, Philadelphia, PA 19104**. Equal Opportunity Employer.



## POSITIONS OPEN

### POSTDOCTORAL POSITION

Available to study isozymes of human aldehyde dehydrogenase. Experience in protein chemistry and/or enzymology and enzyme kinetics an advantage. Salary commensurate with experience. Submit curriculum vitae and letters of reference to: **Dr. Regina Pietruszko, Center of Alcohol Studies, Rutgers University, Busch Campus, Piscataway, NJ 08855-0969**. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** in biochemistry. Available immediately to study coordinate regulation of the genes encoding subunits of mammalian mitochondrial multienzyme complex. The candidate must have completed research for a Ph.D. in biochemistry or molecular biology within the past three years. Experience in recombinant DNA methods and cell culture is required. Send curriculum vitae including publications and names, addresses, and telephone numbers of three references to: **Dr. David T. Chuang, Department of Biochemistry, University of Texas (UT) Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9038**, FAX: 214-688-8856. UT Southwestern is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION:** Available immediately to study regulation of gene expression by cAMP (MCB 10:3357, 1990). Applicant should be experienced in recombinant DNA techniques and/or protein chemistry. Send curriculum vitae, description of research interests and three letters of reference to: **Patrick G. Quinn, Ph.D., Department of Cellular and Molecular Physiology, Pennsylvania State University, College of Medicine, P.O. Box 850, Hershey, PA 17033**. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

### POSTDOCTORAL POSITION

Available immediately to study the molecular genetics of *Borrelia* species and the use of *in vitro* amplification/DNA probe assays for the diagnosis of Lyme disease. Applicants should hold a Ph.D. degree and have experience in recombinant DNA technology/molecular biology procedures. Please send curriculum vitae and the names of three referees to: **Dr. Roger Picken, Department of Immunology/Microbiology, Rush-Presbyterian-St. Luke's Medical Center, 1653 West Congress Parkway, Chicago, IL 60612**. FAX: (312) 942-2808.

*Rush is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITIONS** to study: (a) cell surface oligosaccharides in human skin cancer; (b) local immune responses to Chlamydia infection; (c) Langerhans cell function. SBRI has a stimulating, non-profit environment with strength in infectious diseases. Project (a) starts immediately with salary, benefits. Please send curriculum vitae and two to three referee names to: **Dr. F. W. Symington, Telephone: (206-284-8846), Seattle Biomedical Research Institute, 4 Nickerson Street, Seattle, WA 98109**. Equal Opportunity Employer.

### POSTDOCTORAL POSITIONS IN TOXICOLOGY

Pharmacology Department  
Marshall University School of Medicine

One position is for the synthesis of drug/chemical metabolites and conduct of drug metabolism/renal toxicity studies. Second position is to conduct *in vivo* and *in vitro* renal/hepatic toxicity studies. Positions are open until filled. Send résumé to: **Dr. Gary Rankin, Department of Pharmacology, Marshall University School of Medicine, Huntington, WV 25755-9310**. Equal Opportunity Employer/Affirmative Action Employer.

**POSTDOCTORAL POSITION** to study preimplantation development in the mouse embryo. Research will focus on isolation and identification of developmentally regulated genes and the role of genomic imprinting in early development. Must have Ph.D. and experience in molecular biology. Send curriculum vitae and letters of reference to: **Dr. K. Latham, The Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 North Broad Street, Allied Health Building, Room 306A, Philadelphia, PA 19140**. Equal Opportunity Employer, M/F/D/V.

## POSITIONS OPEN

### PLANT MOLECULAR BIOLOGY

**POSTDOCTORAL POSITION** available immediately for research in studying transcriptional regulatory elements and protein factors for the bean seed storage protein phaseolin gene (Plant J. 2:537-548, 1992). A Ph.D. in plant molecular biology, biochemistry of genetics. Salary \$24,000 per year. **Dr. Norimoto Murai, Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA 70803**. Telephone: (504) 388-1380. An Equal Opportunity Employer.

### POSTDOCTORAL POSITION DNA-PROTEIN INTERACTIONS

Position available immediately for studies of protein interactions with DNA, using mutant proteins that alter recognition specificity. For background and general approach, see Science 250:776 (1990). Applicant should have experience in molecular-genetic methods and in working with either proteins or nucleic acids. Please send curriculum vitae and three letters of reference to: **Dr. Linda Jen-Jacobson, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260**. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** in CELL BIOLOGY of invasion and intracellular survival by the protozoan *Toxoplasma gondii*. Projects include mechanisms of regulated protein secretion, avoidance of endosome-lysosome fusion, and regulation of membrane permeability. Experience in biochemical analysis of membrane proteins and lipids preferred. Send résumé and three references to: **Dr. L. David Sibley, Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, MO 63110**. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available immediately to join ongoing projects related to gene delivery to the central nervous system. Background in behavioral assessments of cognitive and locomotor performances of rats essential. Also, experience with biostatistics, *in vivo* microdialysis, immunohistochemistry and *in situ* hybridization techniques preferred. Send curriculum vitae, description of research experience, and names of three references to: **Dr. Fred H. Gage, Department of Neurosciences, UCSD, Clinical Sciences Building, La Jolla, CA 92093-0627**.

**POSTDOCTORAL POSITIONS** available for training in molecular and cellular biology of mammalian reproductive systems with emphasis on regulatory mechanisms. Ph.D.'s with training in one of the biological sciences are invited to apply. Send curriculum vitae to: **Mrs. Margaret Hollowbush, Laboratories for Reproductive Biology, CB# 7500, MacNider Building, University of North Carolina, Chapel Hill, NC 27599-7500**.

**POSTDOCTORAL POSITIONS** available immediately to study (1) structure-function relationships of metallothionein related to its roles in Zn and Cd biochemistry (Dr. C. Frank Shaw III) and (2) bioinorganic studies of metallobleomycin-DNA complexes which cause DNA strand cleavage (Dr. David H. Petering). Send curriculum vitae and three letters of reference to: **Dr. Shaw or Dr. Petering, Department of Chemistry, University of Wisconsin-Milwaukee (UWM), P.O. Box 413, Milwaukee, WI 53201-0413**. UWM is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** available to join a highly motivated, small group studying molecular basis of salivary gland-specific gene expression (e.g., J. Biol. Chem. 266:3532, 1991; Gene 106:261, 1991). Approach involves construction and characterization of transgenic models. Strong background in molecular biology essential; experience with gene targeting approaches in mouse ES cells preferred. Applicants must be U.S. citizens or have permanent resident status. Submit curriculum vitae and two letters of reference to: **Dr. Lawrence A. Tabak, Department of Dental Research and Biochemistry, University of Rochester, 601 Elmwood Avenue, Box 611, Rochester, NY 14642**, Telephone: (716) 275-3441/FAX: (716) 473-2679.

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**POSTDOCTORAL FELLOWSHIPS  
NEUROSCIENCE AND AGING INSTITUTE**  
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Stritch School of Medicine*

The Neuroscience and Aging Institute of Loyola University Chicago is now recruiting two postdoctoral fellows for a period of two years each. Trainees with a Ph.D. and/or M.D. degree will participate in an interdisciplinary Neuroscience Research Program involving faculty in the departments of Cell Biology, Neurobiology and Anatomy, Molecular and Cellular Biochemistry, Neurology, Pharmacology, Physiology, and Psychiatry on the Medical Center campus in Maywood, Illinois. Stipends are competitive.

The major areas of research focus are:

**NEURODEGENERATIVE DISEASES** *Alzheimer's and Parkinson's diseases, Substance Abuse, Altered function in aging*

**NEURODEVELOPMENT** *Alcohol, Drugs of abuse, CNS transmitter systems*

**NEUROREGENERATION / NEURODEGENERATION** *Spinal cord injury, Neuronal plasticity and protein expression, Axonal transport, Neural tissue transplantation, Neurotrophic factors*

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**SENSORY NEUROSCIENCE** *Human/animal electroretinogram and visual evoked potentials, Visual psychophysics, Human psychoacoustics, Animal auditory psychophysics, Auditory anatomy and electrophysiology in fish and mammals*

Candidate should forward a letter of interest, including future research interests and career goals, curriculum vitae, and names, addresses and phone numbers of three references to:

Neuroscience and Aging Institute  
Fellowships Committee Building 102, Room 3621  
Loyola University Medical Center  
2160 South First Avenue  
Maywood, Illinois 60153

Information must be received and files complete before December 31, 1992.

Loyola University Chicago employs without regard to race, color, age, sex, national or ethnic origin, or religion, and is an equal opportunity employer. Qualified persons are not subject to discrimination on the basis of handicap.

**Craniofacial Growth  
and Development  
Yale School of Medicine**

Applications and nominations sought for a tenure track position at the **Assistant/Associate Professor level** in the Section of Plastic Surgery at the Yale School of Medicine. This individual will join in a collaborative research effort related to defining and manipulating normal and abnormal development of the craniofacial skeleton. The successful candidate will have had post-doctoral experience and the ability to conduct independent research related to the cell biology, growth factor analysis, and/or collagen/matrix interactions associated with bone growth. The position will be available January 1, 1993. Salary is negotiable, depending on the experience of the individual.

Application deadline is November 15, 1992. Please send letters of inquiry with CV; reprints from two previous publications; and the names, addresses, and telephone numbers of three references to:

**Dr. John A. Persing**  
Chief, Section of Plastic Surgery  
Yale University School of Medicine  
P.O. Box 3333  
New Haven, Connecticut 06510

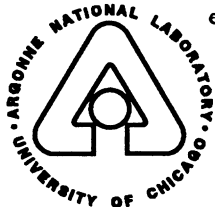
Yale University is an equal opportunity/affirmative action employer, and specifically invites and encourages applications from women and members of minority groups.

- **OSTEOPOROSIS**
- **BONE BIOCHEMISTRY/  
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- **HEAVY METALS**
- **CYTOKINES**

**POSTDOCTORAL RESEARCHER:**

Responsible for investigating effects of cadmium on osteoclast-like cell formation in marrow cell cultures (canine/human) and potential role of cytokines. Requires a Ph.D. in biochemistry, cell biology, or related field. Knowledge of cell culture techniques required and bone cell biology desirable. Applicants must have received Ph.D. within three years of appointment. Competitive salary, commensurate with background and experience. Interested individuals should send curriculum vitae, brief description of research experience, and names and addresses of three references to: Susan M. Walker,

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9700 South Cass Avenue,  
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IDEC Pharmaceuticals is a leader in the development of immunologically active monoclonal antibodies for therapeutic applications in the area of certain cancers, HIV infection, and autoimmune disorders. We pride ourselves in the excellence of our team members and invite you to join us. We offer a competitive compensation package and excellent working conditions. For consideration for this position, please send your resume and references to: IDEC Pharmaceuticals Corporation, Ad GC, 11099 N. Torrey Pines Rd., Ste. 160, La Jolla, CA 92037. EOE.



**Department of Genetics**  
**Case Western Reserve University School of Medicine**

The Department of Genetics invites applications for up to four tenure-track positions at the Assistant Professor, Associate Professor, or Professor rank as part of a major expansion. Applicants should have demonstrated expertise and productivity in any area of classical or molecular genetics, with ability to develop a strong, independent research program. Existing laboratories in the department focus on the genetics of *Drosophila*, *C. elegans*, mouse, and humans. Areas of concentration in the department will be in developmental genetics, chromosome structure and function, genome organization and mapping, and the genetics of inherited disease. Planned expansion is supported by significant new resources, including 40,000 square feet of state-of-the-art research space in a new Biomedical Research Building scheduled to open in January 1993, with generous equipment and start-up funding provided by the Markey Center for Developmental Genetics and by the Center for Human Genetics. The Department of Genetics participates in the multidisciplinary Biomedical Sciences Training Program for Ph.D. students. Candidates will be expected to participate in the teaching of medical and graduate students. Strong interdepartmental interactions at Case Western Reserve University School of Medicine are encouraged and provide for an unusually supportive research environment and opportunity for achievement.

Applicants should send curriculum vitae, description of research plans, and names of three references (with contact numbers) to: **Dr. Huntington F. Willard, Chairman, Department of Genetics, Case Western Reserve University School of Medicine, Cleveland, OH 44106-4955.** *Case Western Reserve is an Equal Opportunity Action Employer.*

**DEAN OF THE COLLEGE OF AGRICULTURE**  
**UNIVERSITY OF WYOMING**

The University invites applications and nominations for the position of Dean of Agriculture. The Dean reports to the Provost and is responsible for academic, administrative, personnel, and fiscal management for the College, including the Agricultural Experiment Station and the Cooperative Extension Service.

The successful candidate should have proven leadership qualities; a vision of the future of Agriculture, Natural Resources, and the College; an understanding of the land-grant system; nationally-recognized professional expertise in one of the academic disciplines of the College; and executive-level experience in planning and administering large multi-faceted programs. The new dean must be able to provide leadership for teaching, research, extension and service programs; be an effective spokesperson and advocate for the College; and maintain open and effective working relationships with diverse constituencies, including faculty, staff, students, and clientele groups.

The College's 101 faculty and 775 students are distributed among seven academic departments: Agricultural Economics; Animal Sciences; Home Economics; Molecular Biology; Plant, Soil, and Insect Sciences; Range Management; and Veterinary Science (including the Wyoming State Veterinary Laboratory). (The USDA, ARS, Arbovirus Laboratory is also housed with the College.) The College offers bachelor's, master's, and doctoral degrees. Research and extension programs utilize state-of-the-art facilities and equipment in Laramie at five research and extension centers distributed throughout the state and at 27 county extension offices.

Salary will be commensurate with qualifications and experience. To assure full consideration, materials should be received by December 4, 1992. Applications should include a curriculum vitae and the names, addresses, and telephone numbers of four references who may be contacted.

Address correspondence to: Search Committee for Dean of Agriculture  
Office of the Provost  
Box 3302, University Station  
Laramie, Wyoming 82071  
Fax: (307) 766-2606

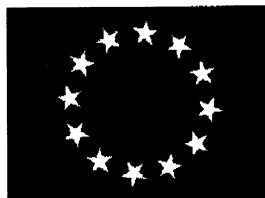
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**Krannert Institute of Cardiology  
Indiana University  
School of Medicine  
Postdoctoral Positions  
Molecular and Cellular Cardiology**

Postdoctoral positions in basic cardiovascular research are available in the Cardiovascular Division, Krannert Institute of Cardiology. Specific areas of research include: 1) cell cycle regulation in cardiac and vascular myocytes, 2) transgenic animal models, 3) molecular biological aspects of ion transport in myocardium, 4) regulation of contractile protein gene expression in vascular smooth muscle and 5) molecular physiology of cardiac and vascular contractility. Candidates with interest and experience in protein biochemistry, developmental biology, molecular biology and molecular physiology are encouraged to apply. The Krannert Institute is actively seeking minority candidates who are interested in clinical or basic molecular cardiology. The Krannert Institute of Cardiology contains a biotechnology center, a transgenic animal facility and state-of-the-art laboratories dedicated to basic cardiovascular research. Moreover, the environment is highly conducive to strong interactions with clinical cardiology and industry. Interested candidates may send a curriculum vitae and 3 letters of reference to: David R. Hathaway, M.D., Director, Krannert Institute of Cardiology, Department of Medicine, Indiana University School of Medicine, 1111 West 10th Street, Indianapolis, IN 46202-4800.

*Indiana University School of Medicine is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are encouraged to apply.*

**Harvard Medical School  
The Joslin Diabetes Center  
invites applications for  
**HEAD -  
IMMUNOLOGY  
RESEARCH****

Applicants should have an M.D. and/or Ph.D. and expertise in the area of immunology with a strong interest in diabetes mellitus. He/she should be capable of conducting research and providing administrative leadership to a group of 3-4 faculty level scientists, as well as postdoctoral fellows and medical/graduate students. Academic appointment at Harvard Medical School appropriate to seniority. Women and minorities are encouraged to apply.

Interested individuals should send a curriculum vitae and the names and telephone numbers of three possible references to Dr. C. Ronald Kahn, Joslin Diabetes Center, One Joslin Place, Boston, MA 02215.

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**Joslin Diabetes  
Center**

**FACULTY POSITIONS IN  
BIOCHEMISTRY  
St. Jude Children's  
Research Hospital**

St. Jude's Children's Research Hospital, a private research institute, is engaged in a major expansion of its facilities and scientific activities. A new research building which opened in August, 1991, provides 240,000 square feet of new laboratory space to house the institute's basic science programs. As part of the expansion, new faculty positions are now available in the Department of Biochemistry. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, investigators with appropriate research interests and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with basic research programs in Virology and Molecular Biology, Immunology, Tumor Cell Biology and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Diseases. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to:

**Dr. James N. Ihle, Chairman  
Department of Biochemistry  
St. Jude Children's Research Hospital  
332 North Lauderdale  
Memphis, TN 38105 USA**

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**CO-OPERATIVE  
RESEARCH CENTRE  
FOR TEMPERATE  
HARDWOOD  
FORESTRY**

**Hobart, Tasmania, Australia**

**Quantitative Geneticist**

(REF: CRC 17/92)

This position is within the Genetic Improvement Program of the Centre. You will be involved in the development of estimates of heritabilities and genetic correlations for economically important traits in temperate eucalypts as a basis for the development of breeding strategies. You may be required to provide project leadership in this field and to undertake supervision of postgraduate students.

For further details contact Professor J B Reid, University of Tasmania. Telephone 002 202604 (International +61 02 202604), Fax 002 202698 (International +61 02 202698).

Tenure will be either indefinite with the CSIRO or a contract with the University of Tasmania extending no later than 30 June 1998.

Applications addressing the selection criteria close on October 14, 1992 and should be addressed to: The Staff Officer, University of Tasmania, GPO Box 252C, Hobart, Tasmania 7001, Australia. Telephone 002 202434 (International +61 02 202434), Fax 002 202751 (International +61 02 202751).

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**MOLECULAR BIOLOGIST/IMMUNOLOGIST**

The H. Lee Moffitt Cancer Center & Research Institute and the University of South Florida seeks applications for an Assistant Professor position in the Immunology program to participate in developing programs for the molecular basis of cancer biology and immunology.

Applicants should hold a Ph.D. in Molecular Biology/Immunology with research experience in gene transfection, transcriptional/posttranscriptional gene regulation and cDNA cloning that can be applied to human lymphocytes and tumor cells. The successful candidate will be expected to establish a vigorous research program in molecular immunology and biology, and successfully compete for extramural funding. This position may be tenure earning.

Send Curriculum Vitae to Julie Djeu, Ph.D., Immunology Program, or John C. Ruckdeschel, M.D., Center Director/CEO at H. Lee Moffitt Cancer Center & Research Institute. Address: Search Committee, Office of Faculty Recruitment, P.O. Box 280179, Tampa, Florida 33682-0179. Deadline for receipt is November 1, 1992.

H. Lee Moffitt Cancer Center & Research Institute, adjacent to the Health Sciences Center on the University of South Florida's Tampa Campus, includes a modern 162-bed cancer facility for children and adults, a large Ambulatory Services operation, a 20-bed bone marrow transplantation program and a new research building.



**H. LEE MOFFITT CANCER CENTER  
& RESEARCH INSTITUTE  
University of South Florida College of Medicine**

Moffitt Cancer Center is an Equal Opportunity Employer.  
The University of South Florida is an Affirmative Action Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL AND/OR INSTRUCTOR (NONTENURE) POSITIONS

To study the relation between signal transduction and cell motility. Research in structure/function relation, developmental regulation and cell biology of several  $Ca^{2+}$ - and polyphosphoinositide-regulated actin regulating proteins. Experience in molecular biology, cell biology or protein chemistry desirable. Please send curriculum vitae and three letters of recommendation to:

**Dr. Helen L. Yin**  
Physiology Department  
The University of Texas  
Southwestern Medical Center  
5323 Harry Hines Boulevard  
Dallas, TX 75235-9040

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Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** to study regulation by neurotransmitters, amphiphiles and intracellular messengers of cardiac myocyte ion currents, intracellular calcium transients and contractions. Applicants (Ph.D. or M.D.) should have broad preparation and expertise in cellular electrophysiology and signal transduction. Send curriculum vitae and three letters of reference by 15 October 1992 to:

**Dr. Achilles Pappano MC-3605**  
Department of Pharmacology  
University of Connecticut Health Center  
Farmington, CT 06030

*AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER M/W/H.*

### POSTDOCTORAL POSITION

A position is open at Durham VA Medical Center/Duke University. The project involves development of molecular and population genetics-based methods to study the worldwide epidemiology of human pathogens. *U.S. citizenship required.* Send curriculum vitae and three references to: **Dr. Ken Wilson, Infectious Diseases Section, VA Medical Center, Durham, NC 27705.** Telephone: (919) 286-6950. *Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available to study by physical and genetic approaches the effects of chromatin organization and SARs on gene regulation in tomato and *Arabidopsis*. Strong background in molecular biology or genetics required. Send curriculum vitae and ask three people to write letters to: **Luca Comai, Botany Department KB-15, University of Washington, Seattle, WA 98195.** Telephone: 206-543-4841.

### TWO POSTDOCTORAL POSITIONS IN TOXICOLOGY AT DU PONT

The postdoctoral program at Du Pont's Haskell Laboratory enables postdoctoral fellows to build their credentials while obtaining experience in industrial toxicology. The positions are for two years, with an additional third year possible, and are offered at a competitive salary.

**Chemical Carcinogenesis.** The fellow will investigate mechanisms of chemical carcinogenesis of the upper airways with the aim of developing models for human health risk assessment. Experience with DNA adduct analysis, HPLC, GC, radioisotopes, mass spectrometry and nucleic acid biochemistry is desirable. Applicants should send curriculum vitae to: **Dr. Matthew S. Bogdanffy** at the address below or FAX (302) 366-5207.

**Reproductive Toxicology.** The fellow will investigate intragonadal regulation and assess mechanisms of testicular toxicity utilizing *in vitro* culture systems. Experience in cell culture and/or male reproductive physiology/biology are desirable. Applicants should send curriculum vitae to: **Dr. Mark E. Hurtt** at the address below or FAX (302) 366-5207.

**The Du Pont Company**  
Haskell Laboratory for Toxicology and  
Industrial Medicine  
P.O. Box 50  
Newark, DE 19714

*Du Pont is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

**POSTDOCTORAL POSITION IN BIOCHEMICAL/CARDIOVASCULAR PHARMACOLOGY.** Available for Ph.D. in chemistry, biochemistry, pharmacology or physiology. Project relates to the pharmacology/pharmacokinetics of nitric oxide donors and inhibitors, and mechanisms of hemodynamic regulation. Position available immediately. Send curriculum vitae and two letters of recommendation to: **Dr. H.-L. Fung, Department of Pharmacetics, State University of New York, Buffalo, NY 14260.** *Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION IN VISUAL NEUROSCIENCE** available in laboratory studying neural circuits and neurotransmitters in visual thalamus and cortex by means of neuroanatomical (LM, EM), immunocytochemical and electrophysiological techniques. Background in neurosciences, preferably on visual system, is a requisite. Send curriculum vitae, names of three references to: **Dr. V. M. Montero, Department of Neurophysiology, University of Wisconsin, 621 Waisman Center, 1500 Highland Avenue, Madison, WI 53705.**

### ASSOCIATE POSTDOCTORAL POSITION MOLECULAR ENDOCRINOLOGY Harvard Medical School Massachusetts General Hospital

Applications are invited for a postdoctoral position as an Associate to work in the laboratory of Dr. Joel F. Habener. Qualified candidate will pursue mechanisms of cAMP regulated gene expression by transcription factors CREB and CREM. Emphasis on pancreatic islet hormone genes, somatostatin, glucagon and insulin and how altered expression relates to diabetes mellitus.

Please forward curriculum vitae and three letters of recommendation to: **Richard Petruzzelli, Massachusetts General Hospital, 50 Blossom Street, Wellman 513, Boston, MA 02114.**

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**POSTDOCTORAL POSITIONS:** (a) cell surface oligosaccharides in human skin cancer; (b) local immune responses to Chlamydia infection; (c) Langerhans cell function (Symington); (d) human T cell responses following *Plasmodium falciparum* (malaria) infection (Howard). Experience with long-term culture of T cells preferred for (d). Stimulating, non-profit environment with strength in infectious diseases. Projects (a) and (d) start immediately. Send curriculum vitae and three referee names to: **Dr. F.W. Symington (Telephone: 206-284-8846) or Dr. R.F. Howard, Seattle Biomedical Research Institute, 4 Nickerson Street, Seattle, WA 98109.** *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** to study the mechanism of signal transduction by cell adhesion receptor integrins (Nature 358:690; Cell Regulation 2:951). Current projects focus on the role of FAK (focal adhesion-associated kinase) and other tyrosine kinases/phosphatases in the pathway. Background in molecular and cell biology preferred. Send curriculum vitae and names of three referees to: **Dr. Jun-Lin Guan, 210 VRT, Cancer Biology Laboratories and Department of Pathology, Cornell University, Ithaca, NY 14853.**

**POSTDOCTORAL POSITION IN MOLECULAR IMMUNOLOGY** available immediately for molecular biologist to study the regulation of IL-2 gene transcription by T-cell clonal anergy. Research will involve (1) the activation of antigen-specific T-cell clones, (2) quantitation of IL-2 gene expression, and (3) the development of expression constructs for both transient and stable transfection. Requires Ph.D. with strong background in molecular biology. Will join an immunology team interested in the functional, biochemical, and genetic basis for the regulation of T-cell growth. Send curriculum vitae with names and addresses of three references to: **Dr. Daniel L. Mueller, Department of Medicine, University of Minnesota, Box 108 UMHC, Minneapolis, MN 55455.**

## POSITIONS OPEN

### UNIVERSITY OF PENNSYLVANIA SKELETAL BIOLOGY RESEARCH CENTER POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY OF DEVELOPMENT

Positions are available immediately for research on several expanding projects in our laboratories on molecular biology of cartilage development (*J. Biol. Chem.* 265, 2223-2230; *Exp. Cell Res.* 193, 190-197; *Exp. Cell Res.* 195, 38-46). Candidates should have experience in molecular biology, extracellular matrix biology, developmental biology or cell biology. Interested candidates should send curriculum vitae; names, addresses, and telephone/FAX numbers of three references, and a description of research experience to: **Sherrill L. Adams, Ph.D. and Maurizio Pacifici, Ph.D., University of Pennsylvania, Department of Biochemistry, 4010 Locust Street, Philadelphia, PA 19104-6003; FAX: 215-898-3695.**

**POSTDOCTORAL POSITION.** To participate in an NIH-funded program on alterations of host defense induced by thermal injury. Project involves determining subcellular mechanisms responsible for neutrophil dysfunction (i.e., alterations in signal transduction and regulatory mechanisms). Stipend of \$28,000 to \$32,000 (dependent on experience) and fringe benefits. *U.S. citizenship or permanent residence required.* Submit curriculum vitae and names of three references to: **Dr. Ann Bjornson, Director, Division of Immunology, James N. Gamble Institute of Medical Research, 2141 Auburn Avenue, Cincinnati, OH 45219.** *An Equal Opportunity Employer.*

**POSTDOCTORAL POSITION at The Harvard Medical School** is available for a recent Ph.D. to join an immunobiology laboratory studying the mechanisms of autoimmunity in a diversity of diseases (type I diabetes, Graves, multiple sclerosis, rheumatoid arthritis, etc.) with emphasis on molecular biology, molecular immunology, mammalian cell transfection, transcription regulation, basic genetics, etc. This work will be based in our recent *Science* article (1991; 254, 1756). Send curriculum vitae and names of three references to: **Dr. Denise Faustman, Immunobiology Labs, Massachusetts General Hospital-East, Building 149, 13th Street, Charlestown, MA 02129.**

**POSTDOCTORAL POSITION IN MOLECULAR VIRAL PATHOGENESIS** available immediately to study the mechanism of novel hypermutation in measles virus RNA in central nervous system infections (*J. Virol.* 65:2191 and 66:1769). Send curriculum vitae, description of research interests and experience, and three letters of recommendation to: **Dr. Tim Wong, Department of Microbiology, SC-42, University of Washington School of Medicine, Seattle, WA 98195.** Telephone: (206) 685-2162. *Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITION IN ATOMIC FORCE MICROSCOPY

A postdoctoral position is available in the field of atomic force microscopy. One aim of this project is to investigate organic nonlinear optical molecules near solid and liquid interfaces (Langmuir monolayers). In addition to the operation of an existing AFM a new instrument should be developed for the investigation of organic molecules, with (sub)-molecular resolution.

We are seeking an innovative researcher at postdoctoral level with experience in atomic force microscopy or with similar techniques. The position requires a Ph.D. in experimental physics.

The initial term of the appointment is up to 24 months with the possibility of renewal.

To apply for this position send a résumé and two letters of reference to:

**Professor Dr. P. Günter,**  
Institute of Quantum Electronics,  
ETH-Hönggerberg HPF,  
CH 8093 Zürich, Switzerland

**POSTDOCTORAL POSITION** available to study germ cells and stem cells during mouse development. Apply with curriculum vitae to: **Dr. R. L. Brinster, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA 19104.** *An Equal Opportunity Employer.*

## Make a difference!

Affinity Biotech, Inc. is a fast growing company with headquarters and laboratory facilities in suburban Philadelphia. We are applying leading edge technologies to our three areas of research and development: oral delivery of protein and peptide therapeutic agents, perfluorocarbon-based synthetic blood, and taste-masked liquid and chewable formulations of a variety of drugs.

Affinity is looking for Scientists and Associates who would like to participate in an intellectually stimulating, collaborative environment. We have opportunities in the following disciplines.

### Scientists

Ph.D. or equivalent in Physical Chemistry (colloidal science preferred), Cell Biology-Epithelial Cells, Physical Pharmacy (solid and liquid formulation development), and Pharmacology/Physiology.

### Associates

M.S. or B.S. in Chemistry, Biology, Biochemistry, Pharmacy, and Biochemical and Chemical Process Engineering.

We offer a competitive salary and comprehensive benefits. Interested candidates should send a resume in strictest confidence to: Personnel Director, Affinity Biotech, Inc., 305 Chelsea Parkway, Boothwyn, PA 19061

 Affinity Biotech

## POSTDOCTORAL POSITIONS IN CELLULAR AND MOLECULAR BIOLOGY

Mayo Clinic Scottsdale will complete the Samuel C. Johnson Research Center on its medical campus in the beautiful high Sonoran Desert in 1993. Candidates are being sought for the following positions: *Postdoc.* Ph.D. or M.D./Ph.D. with training in cell and/or molecular biology to study the function of a cell-associated mucin MUC1 (PEM, episialin) in development and tumor progression. Projects will focus on the role of MUC1 in 1) the functions of epithelia utilizing *in vivo* and *in vitro* systems and 2) tumor development (emphasis on the mammary gland). One position will be available in early 1993 and the second in the summer of 1993. Please specify the project of interest. Send curriculum vitae and names and addresses of three references to:

Dr. Sandra J. Gendler  
Mayo Clinic Scottsdale  
13400 E. Shea Boulevard  
Scottsdale, AZ 85259

Ph.D. or M.D./Ph.D. to investigate function of homeobox genes in transgenic and mutant mice. Background in embryology or neurobiology and experience with cell culture, molecular biology and transgenic animals preferred. The start date is spring, 1993. Send curriculum vitae and names and addresses of three references to:

Dr. Claudia Kappen  
Mayo Clinic Scottsdale  
13400 E. Shea Boulevard  
Scottsdale, AZ 85259



SAMUEL C. JOHNSON MEDICAL RESEARCH CENTER  
MAYO CLINIC SCOTTSDALE

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Literally. You see, our unique technology is epithelial cell culturing - culturing burn patients' own epidermal cells for use as transplantable sheets of skin. It makes a dramatic difference in many lives - and it's what makes working at BioSurface Technology so professionally and personally rewarding. If you'd like to contribute to an endeavor that's truly a positive force, you're invited to join us.

### RESEARCH SCIENTISTS - CARTILAGE BIOLOGY

BioSurface Technology is dedicated to providing therapeutic products based on cultured human cells. **Senior Scientist, Scientist, and Postdoctoral Associate positions are available in our new R&D program in cartilage transplantation.** Applicants for these positions should have experience in: chondrocyte cell culture, cartilage differentiation, extracellular matrix biology, or orthopedic transplantation in experimental animals. Successful candidates will join an active, high quality group of research and development associates in cell and molecular biology, histogenesis, and product development projects focused on cell culture, transplantation, and wound healing.

Send resume and the names of three references in confidence to: BioSurface Technology, Inc., Michael Walsh, Dept. CD, 64 Sidney Street, Cambridge, MA 02139. We are an equal opportunity employer.

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### RESEARCH SCIENTISTS

PhD in Cell Biology preferred. Experience in biotech/biomedical or pharmaceutical industry a plus. Bioengineering experience invited.

Advanced Tissue Sciences offers competitive compensation and benefits packages and a creative, inspired environment. Please mail or FAX your c.v. to: Recruiting Manager, Advanced Tissue Sciences, 10933 North Torrey Pines Road, La Jolla, CA 92037, FAX 619/450-5703. AA/EOE.



**ADVANCED TISSUE**  
**SCIENCES**

## POSITIONS OPEN

**POSTDOCTORAL ASSOCIATE** in Developmental Neurobiology. Position is available to study the molecular events involved in regulating the levels of neuronal synaptic components. Particular emphasis is being given to the neuronal nicotinic acetylcholine receptor (AChR) and the role of cell-cell interactions in regulating AChR gene expression in neurons. Relevant techniques include quantitative PCR, *in situ* hybridization, tissue culture, primary neuron transfection and the analysis of cis-regulatory promoter elements. Experience in one or more of these techniques is preferred. Please send curriculum vitae, a statement of research experience and interests, and the names and telephone numbers of three references to: **Dr. Michele Jacob, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545. Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITIONS** are available in two research areas: regulation of adrenergic receptor gene expression, and central neural mechanisms in cardiovascular regulation. Both projects involve the extensive use of molecular biological techniques, in combination with more traditional approaches, ranging from receptor and biochemical assays in cultured cells to stereotaxic microinjections and *in vitro* brain microdialysis in whole animals. Interested candidates with training and experience in the above areas should send curriculum vitae, one or two relevant publications, and names and numbers of three references, by December 31, 1992, to: **Dr. George Kunos, Professor and Chair, Department of Pharmacology and Toxicology, Virginia Commonwealth University, Box 613, MCV Station, Richmond, VA 23298-0613. VCU is an Equal Employment Opportunity/Affirmative Action Employer and encourages women, minorities and those with disabilities to apply.**

## PLANT COMMUNITY ECOLOGY

**POSTDOCTORAL ASSOCIATE** sought to participate in study of composition and geographic variation of fire-maintained vegetation of the Carolina coastal plain. Experience with quantitative approaches to community analysis and Southeastern flora desirable. This 18-month position available after 1 January, 1993. Send curriculum vitae and names of three references by October 22, 1992 to: **Robert K. Peet, Department of Biology—CB#3280, University of North Carolina, Chapel Hill, NC 27599-3280. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION:** Ph.D. in biological sciences with expertise in eukaryotic cell molecular biology. Primary responsibility to conduct research on cytokines and immune cell regulation. Background in immunology preferred. Please forward curriculum vitae and names of three references to: **Dr. S. Agarwal, University of Pittsburgh—Dental Medicine, Department of Microbiology, 645 Salk Hall, Pittsburgh, PA 15261.**

## POSTDOCTORAL POSITION

A postdoctoral position is immediately available for a recent Ph.D. or M.D. interested in vascular growth control. A strong background in molecular biology and biochemistry is required. Experience in protein purification and enzymology is preferred but not necessary. Please send curriculum vitae and names of references to: **Dr. Robert Langer, Germeshausen Professor of Chemical and Biomedical Engineering, or Dr. Marsha Moses, Assistant Professor, Department of Surgery, The Children's Hospital, Harvard Medical School, Boston, MA 02115.**

## POSTDOCTORAL POSITION MOLECULAR VIROLOGY

A position is available to study the molecular pathogenesis of influenza virus. The research involves the elucidation of the role of an HA cleavage enzyme for the pathogenesis of influenza. The candidate will receive training in state-of-the-art molecular and immunobiological techniques including *reverse genetics* that are being used to address this question. Interested individuals should send curriculum vitae and the names of three references to: **Dr. Yoshihiro Kawaoka, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, 332 North Lauderdale, P.O. Box 318, Memphis, TN 38101-0318. An Equal Opportunity, Affirmative Action Employer.**

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to work on soybean transformation for insect resistance and analyses of transformants. Experience in plant cell culture, transformation, and/or molecular biology is required. Position will remain open until a suitable candidate is found. Send curriculum vitae and the names of three references to: **W.A. Parrott, Center for Soybean Improvement, 3111 Plant Sciences, University of Georgia, Athens, GA 30602-7272. FAX: (706) 542-0914. An Equal Opportunity/Affirmative Action Institution.**

**TWO POSTDOCTORAL POSITIONS:** (1) The study of the molecular aspects of radioresistance. Experience in a variety of molecular biology techniques, including gene cloning, is essential. (2) The study of signal transduction as it relates to the physiology of the radiation response. Experience in a variety of molecular biology/biochemistry techniques is essential. Send curriculum vitae and names of three references to: **Dr. Ralph R. Weichselbaum, University of Chicago, Department of Radiation and Cellular Oncology, 5841 South Maryland Avenue, MC0085, Chicago, IL 60637. The University of Chicago is an Equal Opportunity Employer.**

## POSTDOCTORAL POSITION

Available immediately to candidates with experience in biochemistry of signal transduction to study pathways involved in neurite growth. Experience with calcium imaging or molecular biology preferred. Fellowship salary is \$27,000 to \$30,000 and includes health insurance. Send curriculum vitae, summary of research experience and names of references to: **Dr. Robert Messing, University of California at San Francisco, San Francisco General Hospital, Building 1, Room 1011, San Francisco, CA 94110. An Equal Opportunity Employer.**

**TWO IMMEDIATE POSTDOCTORAL POSITIONS.** Biochemist or protein chemist. The successful candidate will work in a team whose activities are centered around developing novel analysis/separation technologies for protein pharmaceuticals. Send résumé and reference letters to: **Dr. Cheng S. Lee, Department of Chemical Engineering, University of Maryland Baltimore County, Baltimore, MD 21228. An Affirmative Action/Equal Opportunity Institution.**

**POSTDOCTORAL ASSOCIATE:** Roles of growth factors and their receptors in stem (embryo) and differentiated cells using molecular and cellular biological techniques. Experience in plasmid construction, transfection, immunological, DNA, RNA and receptor analyses. Ph.D. or M.D. in Molecular Biology, Biochemistry or Medical Science and two years of experience in job offered required. Job and interview site: La Jolla, CA. Salary: \$31,500 per year. Send this ad and your résumé to: **Job #WS12810, P.O. Box 9560, Sacramento, CA 95823-0560 no later than October 12, 1992.**

## POSTDOCTORAL POSITION IN TUBERCULOSIS RESEARCH

With the resurgence of tuberculosis, there is renewed need for basic and applied research on mycobacteria. We seek a postdoctoral level individual to evaluate new antimycobacterial agents *in vitro* and *in vivo* and to conduct studies on the mycobacterial host-parasite relationship. He/she will work within a multidisciplinary group at Emory University. Please send curriculum vitae and names of three references to: **Robert L. Hunter, M.D., Ph.D., Professor, Department of Pathology and Laboratory Medicine, Room 760 WMB, Emory University, Atlanta, GA 30322. Emory University is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available fall/winter 1992, to investigate the molecular basis of pathogenesis by retroviruses. Current research is focused on transcriptional regulation in the process of viral oncogenesis. Candidates should have a Ph.D. with experience in molecular biology, biochemistry, or immunology. Send curriculum vitae and names of three references to: **Dr. Jack Lenz, Department of Molecular Genetics, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.**

## POSITIONS OPEN

**POSTDOCTORAL POSITION** in cerebral blood flow regulation and cerebral ischemia research, including therapy evaluation and autonomic function in cerebral ischemia, available immediately. Nationally funded projects with competitive salary. Research will involve either (1) studying normal cerebral blood flow regulation and its application to cerebral ischemia, (2) potential therapies and diagnostic methods for very early focal cerebral ischemia, or (3) autonomic and endocrine dysfunction during cerebral ischemia. Techniques for cerebral blood flow include quantitative autoradiography, laser Doppler flowmetry, or micro-thermal conductivity. A knowledge of animal physiology and surgery preferred. Send curriculum vitae, a summary of research interests, and three references to: **Dr. S.C. Jones, Cerebrovascular Research Laboratory, NC3-104, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195-5286. Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION.** Available in a laboratory investigating the ontogeny of cellular, synaptic and network properties of the neuronal mechanisms controlling mammalian respiratory and locomotor systems. Research involves whole-cell patch clamp, neuropharmacological and anatomical studies utilizing *in vitro* brainstem-spinal cord fetal and neonatal rat preparations. Send curriculum vitae and names of three references to: **Dr. John J. Greer, Division of Neuroscience, 513 Heritage Medical Research Centre, University of Alberta, Edmonton, Alberta, Canada T6G 2S2, or Telephone: 403-492-1671.**

**POSTDOCTORAL FELLOW.** Sandoz Agro, a company recognized for excellence in agricultural products, seeks a postdoctoral fellow to study the mode of action of biological insecticides. Projects involve site directed mutagenesis to study structure-function relationships in receptor binding and membrane pore formation. Requires a Ph.D. and a strong related background. Experience in basic molecular biology techniques highly desirable. Send curriculum vitae to: **Sandoz Agro, Inc., Human Resources Department, 975 California Avenue, Palo Alto, CA 94304-1104. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL FELLOWSHIP.** Unique position for a recent Ph.D. with expertise in biochemistry/molecular biology of intracellular regulatory pathways involved in human immune response. Research involves discovery from marine organisms and studies on the mechanism of action of the next generation of anti-inflammatory compounds. Competitive stipends, excellent funding and the opportunity to make major contributions. Contact: **Dr. Robert Wallace, Director, Division of Biomedical Marine Research, Harbor Branch Oceanographic Institution, 5600 Old Dixie Highway, Ft. Pierce, FL 34946. Equal Employment Opportunity/Affirmative Action Program.**

## NIH RESEARCH FELLOWSHIP POSITION

An NIH Intramural Fellowship (Intramural Research Training Award/Visiting Fellow) is immediately available at the National Institute on Drug Abuse Addiction Research Center for a scientist with Ph.D., M.D., or M.D./Ph.D. degrees. The scope of the research entails studies of effects of drugs of abuse on regional brain function *in vivo* in humans measured by positron emission tomography (PET) and EEG. Candidates with experience in PET, image analysis, neuropsychology and electroencephalography will be given preference. Salary is commensurate with experience. The position affords a unique opportunity to interact with a team of scientists in various disciplines (including behavioral pharmacology, electrophysiology, biochemical pharmacology) with a commitment to the investigation of the biology of substance abuse.

Applicants should submit an application letter specifying their research interest, curriculum vitae and three letters of recommendation to:

**Edythe D. London, Ph.D.  
Chief, Neuroimaging and Drug Action Section  
National Institute on Drug Abuse  
Addiction Research Center  
P.O. Box 5180  
Baltimore, MD 21224**

**Clinical Director**  
**Center for Human Genetics and Department of Genetics**  
**Case Western Reserve University School of Medicine**  
**University Hospitals of Cleveland**

The newly established Center for Human Genetics invites applications for a Clinical Director who will be responsible for organizing and directing the clinical genetics services at University Hospitals of Cleveland, including Rainbow Babies and Childrens Hospital, both affiliated with Case Western Reserve University School of Medicine. The Clinical Director must be a diplomate of the American Board of Medical Genetics and will assume responsibility for the clinical service, including diagnostic laboratories for Clinical and Molecular Cytogenetics (Dr. S. Schwartz, laboratory director) and Prenatal Screening (Dr. L. Dickerman, laboratory director). In addition to directing the clinical service, the candidate will assist the Director of the Center, Dr. H. F. Willard, in all aspects of the Center's academic, research, and teaching activities. The candidate will be appointed at a senior rank in the Department of Genetics and an appropriate clinical department and will be expected to establish an active human genetics research program and/or to interact and collaborate with research faculty within the Center. The Center for Human Genetics maintains strong ties with clinical departments and programs as an essential part of its mission. The Clinical Director will have significant resources available for increased development of the clinical service, as part of a major institutional commitment to excellence in human and medical genetics.

Applicants should send curriculum vitae, summary of clinical, administrative and research experience, and names of three references (with contact numbers) to: **Dr. Huntington F. Willard, Director, Center for Human Genetics, Case Western Reserve University School of Medicine, Cleveland, OH 44106-4955.**

*Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.*

**Brandeis University**  
**Assistant Professor**  
**Mammalian Molecular**  
**Geneticist**

The Department of Biology and the Rosenstiel Basic Medical Sciences Research Center, aided by a grant from the Howard Hughes Medical Foundation, seek a tenure-track Assistant Professor interested in genetics and molecular biology of humans or other mammals. We are especially interested in, but not restricted to candidates with a strong research background in the following areas: genetics and molecular biology of human molecular diseases or their mouse models; regulation of mammalian development and differentiation; genetics and molecular biology of human and other mammalian viruses.

Teaching at both the undergraduate and graduate levels is expected.

Candidates should submit curriculum vitae, including descriptions of current and proposed research, as well as arrange for three letters of recommendation to be sent to: Mammalian Genetics Search Committee, Rosenstiel Basic Medical Sciences Research Center, Brandeis University, Waltham, MA 02254. Applications should be received no later than October 31, 1992.

Brandeis University is committed to equal opportunity and affirmative action and welcomes applications from women and minorities.

**BRANDEIS**  
**UNIVERSITY**

**DIRECTOR**  
**CENTER FOR LASER RESEARCH**  
**OKLAHOMA STATE UNIVERSITY**

**Oklahoma State University invites applications and nominations for the position of Director, Center for Laser Research.**

**THE CENTER FOR LASER RESEARCH.** The Center is a multidisciplinary research center with faculty from Physics, Chemistry, Electrical and Computer Engineering, Veterinary Medicine, and physicians form the University of Oklahoma Health Sciences Center. Established in 1989, the Center has quickly matured into a world-class laser research center with over 12,000 sq.ft. of modern laboratory facilities equipped with more than thirty state-of-the-art laser systems of all types. Cooperative research programs also provide the Center faculty with access to outstanding MBE and crystal growth facilities. The Center's research programs are supported by approximately \$3 million of external sponsored funding. The primary areas of basic research in the Center include optical properties of materials for solid state laser systems and nonlinear optics; equilibrium and nonequilibrium states; theoretical laser modeling; quantum optoelectronic materials; laser and nonlinear systems development; integrated optical devices; and medical laser research. Another major program for the Center is the OCAST State Center of Excellence for Laser Development and Applications which supports the applied research programs for economic development. Through this program, the Center has formed a wide variety of university-industrial and university-medical collaborations throughout the state of Oklahoma.

**THE POSITION.** The Director will establish a strong, active research program, provide sound administrative and financial management, and stimulate intellectual and technical leadership for the development and advancement of the Center's laser research program. This executive position involves fostering strategic alliances with governmental, industrial, medical, and academic communities to promote the activities of the Center, as well as soliciting support from private foundations. This position will be eligible for appointment to the Noble Endowed Chair for Laser Science. The Director reports and acts as a major advisor to the Vice President for Research.

**QUALIFICATIONS:** Candidates for the position should possess a strong technical background in a laser related field and must have a distinguished record in research, proven management skills, and demonstrated leadership to integrate the various components of a multidisciplinary research program. This position requires strong interpersonal skills to interface with governmental, industrial, medical, and academic leaders and other scientists and engineers to promote the continued development, growth, and advancement of the Center's research programs.

**APPLICATIONS AND NOMINATIONS,** to receive full consideration, should be submitted by November 15, 1992 to:

Dr. Thomas C. Collins  
Vice President for Research  
Oklahoma State University  
203 Whitehurst Hall  
Stillwater, Oklahoma 74078

*Oklahoma State University is an affirmative action/equal opportunity employer.*



## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE

NIH-funded position available in the Center for Agricultural Biotechnology to study Insect Molecular Genetics. The research associate will participate in an ongoing project involving the isolation and molecular/genetic characterization of non-drosophilid insect transposable elements. Research experience in molecular genetics is required. Experience with insects is desirable. Position will be available for two years with a possible one-year extension. Inquiries and curriculum vitae with the names, addresses, and phone numbers of three references to: **Dr. David A. O'Brochta, Center for Agricultural Biotechnology, 2111 Ag/Life Science Surge Building, University of Maryland, College Park, MD 20742. Telephone: (301) 405-7680. The University of Maryland is an Equal Opportunity Employer and encourages women and minority applicants.**

### POSTDOCTORAL RESEARCH ASSOCIATE

Position is available in the NIH-supported laboratory to study genes involved in mosquito vitellogenesis. Background and experience in molecular biology and/or protein biochemistry is required. Send curriculum vitae, reprints of publications and three letters of recommendation to: **Dr. Alexander S. Raikhel, Professor, Program in Genetics and Department of Entomology, S-136 Plant Biology Building, Michigan State University, East Lansing, MI 48824-1115, USA; Telephone: 517-353-7144; FAX: 517-353-5598.**

### POSTDOCTORAL RESEARCH ASSOCIATE

Research will involve studies in protein structure/function and signal transduction in bacteria. Background in biochemistry and/or molecular biology is preferred. Send curriculum vitae and names of four references to: **Dr. Philip Matsumura, University of Illinois at Chicago, Department of Microbiology and Immunology M/C 790, P.O. Box 6998, Chicago, IL 60680. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

### POSTDOCTORAL/RESEARCH ASSOCIATE

**Gene Regulation/Transcription Factors/Kidney Development.**

**BETH ISRAEL HOSPITAL/HARVARD MEDICAL SCHOOL.** Due to shift in laboratory to Boston, two postdoctoral and two technician positions are available starting January 1, 1993. Laboratory focuses on mammalian transcription factors and the molecular basis of kidney specific gene expression. Investigations include: (1) phenotypic studies of the immediate-early transcription factor Egr-1. Cell 1988; 53: 37-43. (2) biology of Wilms' tumor suppressor gene WT1 (target genes and proximal transregulators). Science 1992; 257: 674-678. (3) development of embryonic kidney cell culture systems. Our studies employ techniques in molecular biology, use of animal models, immunohistology, and protein chemistry. Expertise is required in one or more of these areas. Send curriculum vitae, a brief summary of research experience, and names, addresses and telephone numbers of three references preferably prior to December 1, 1992 to: **Dr. Vikas P. Sukhatme, MC 1028, HHMI, University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637. Telephone (312) 702-9781, FAX: (312) 702-0271.**

**POSTDOCTORAL or RESEARCH ASSISTANT** position available for candidates with strong background in cell biology and cultivation of protozoa. Eligible candidates should have a Ph.D. degree and not more than three years of postdoctoral research experience. Salary will depend upon experience. Send curriculum vitae and names of three references to: **Dr. Walter T. Hughes, Department of Infectious Diseases, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. St. Jude is an Affirmative Action/Equal Opportunity Employer.**

### POSTDOCTORAL RESEARCH ASSOCIATE

The Arnold Arboretum of Harvard University requires a postdoctoral research associate with Ph.D. in plant systematics, and ability to work in rain forest and unfamiliar cultural environments, to coordinate a floristic inventory project in Indonesian Borneo, and to assist with production of check lists, field identification guides and keys. Send application to: **Dr. John Burley, The Arnold Arboretum of Harvard University, 22 Divinity Avenue, Cambridge, MA 02138 USA.**

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH ASSOCIATE, NEUROBEHAVIORAL PHARMACOLOGY.** Position available January 1993, for research on opioid drugs and caffeine in rodents and small primates. Behavioral assays are used to study drug-receptor interactions relevant to tolerance, dependence, and potential for abuse. Requires recent Ph.D. in pharmacology or related basic science, or psychology. Send curriculum vitae, names of three references, and brief statement of interests to: **Stephen G. Holtzman, Ph.D., Department of Pharmacology, Emory University School of Medicine, Atlanta, GA 30322. Emory University is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL RESEARCH ASSOCIATE—WATERSHED MODELLER.** Adapt and extend hydrologic models to analyze effects of land use and climate change on peak and low streamflows in mountain watersheds. Ph.D. in hydrology or related field, experience with computer modeling required. Full-time, fixed-term 12-month position, salary \$25,200 to \$30,000, depending on experience. Full benefits. Send letter of application, complete résumé, transcripts of university work, and three letters of recommendation by September 25, 1992 to: **Dr. Logan Norris, Head, Department of Forest Science, Oregon State University, Corvallis, OR 97331-5705.** For more information, contact **Dr. Gordon Grant (Telephone: 503-750-7328)** or **Dr. Julia Jones (503-737-6578).** OSU is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to dual-career needs.

### POSTDOCTORAL RESEARCH ASSOCIATE MOLECULAR GENETICS

Position available February 15, 1993, to study DNA rearrangement in the ciliate *Tetrahymena*. Experience in recombinant DNA technology and/or DNA sequence analysis required. Send curriculum vitae and names and telephone numbers of three references to: **Dr. Kathleen Karrer, Biology Department, Marquette University, Milwaukee, WI 53233. Equal Employment Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL RESEARCH ASSOCIATE BIOMOLECULAR MATERIALS

Applicants are invited to study the primary structure, synthesis and role of a cell-specific secretory protein in the assembly of aquatic silk fibers produced by the salivary glands of certain Chironomids (Diptera). Previous experience in molecular biology, protein biochemistry or electron microscopy of macromolecular complexes is desired. Send résumé and a list of three references to: **Dr. Steven T. Case, Department of Biochemistry, The University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. Telephone: (601) 984-1518; FAX: (601) 984-1501. The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F/D/V.**

**SENIOR RESEARCH ASSOCIATE** in the Department of Psychiatry at a private university in northeast Ohio. The position involves designing, performing and interpretation of antipsychotic drug effects, disposition, and metabolism; development of chemical assay methods for drugs and their metabolites in human and rat biological fluids; determination of antipsychotic drug effects on *in vivo* neurotransmitter release and metabolism using brain microdialysis studies on free moving rats and radiotracer methods; quantitative behavioral tests to assess effects of drugs on brain function; statistical analysis of data and preparation of manuscripts for publication. Requires M.D. or Ph.D. in Medical Sciences. No experience required in above duties, but applicants will qualify with three years of postdoctoral experience which includes high pressure liquid chromatography, gas chromatography and bioanalytical methodology, performing microdialysis, catheter implantation and manipulation of dialysis probe; pharmacokinetic modeling methods (*in vivo* and *in vitro*) and retracer methods; computer software (Lotus 123, abstat). Salary is \$27,600 per year; working hours are 37.5 per week, Monday through Friday (8:30 a.m. to 5:00 p.m.). Applicants must have proof of legal authority to work indefinitely in the U.S. Send curriculum vitae including three professional references and list of publications in duplicate (no calls) to: **J. Davis. Job #1200908, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216. Equal Employment Opportunity/Affirmative Action.**

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE

A Postdoctoral Research Associate position is available for studies on the biochemical and/or physiological regulation of adenyl cyclase by nucleic acid metabolites. Biochemical investigations would include use of newly synthesized radioactive affinity ligands to identify binding domains on native, recombinant, and modified forms of several types of adenyl cyclase in collaboration with several laboratories. Physiological investigations would relate changes in levels of these metabolites with regulation of cell growth and the cell division cycle. Interested individuals with qualifications in these research areas should send résumés and names of references to: **Dr. Roger A. Johnson, Department of Physiology and Biophysics, SUNY/Health Sciences Center, Stony Brook, NY 11794-8661. (Telephone: 516/444-3040; FAX: 516/444-3432). An Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL RESEARCH ASSOCIATE

**Cardiac electrophysiology** laboratory has a postdoctoral position available to study physiological regulation of Na/K pump in isolated cardiac myocytes and its role in the cardiac action potential. Primary responsibilities include computer simulation of a model of the Na/K pump and the cardiac action potential and patch-clamp experiments on isolated mammalian cardiomyocytes. Salary is competitive and negotiable, based on experience. Applicant should send curriculum vitae, statement of research interest and objectives, name and address of three references to: **Dr. Joseph R. Stimers, Department of Pharmacology, SLOT 611, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205.**

### RESEARCH ASSOCIATE

The Arnold Arboretum of Harvard University is seeking to fill a one-year position for a postdoctoral research associate who will prepare, under the guidance of Professor Peter Ashton, a manual on field and analytical methods for prioritization of prospective areas for plant species conservation for non-specialist conservation staff and the interested public. Requirements: Ph.D. in ecology, with emphasis on conservation; demonstrable writing skills; prior experience is desirable. Send application to: **Dr. Peter Ashton, The Arnold Arboretum of Harvard University, 22 Divinity Avenue, Cambridge, MA 02138.**

**RESEARCH ASSOCIATE POSITION** available for an NIH-funded study of developmentally-regulated triacylglycerol recycling, diacylglycerol biosynthesis, and essential fatty acid metabolism in hepatocytes. Experience in lipid biochemistry and tissue culture is highly desirable. Send curriculum vitae, statement of research interest, and names of three references to: **Dr. Rosalind Coleman, Department of Nutrition, University of North Carolina—Chapel Hill, Box 7400, Chapel Hill, NC 27599-7400. University of North Carolina is an Affirmative Action/Equal Opportunity Employer.**

**RESEARCH ASSOCIATE.** Position is available immediately to investigate sequence variation of PCR amplified HIV-1 DNA. A Ph.D. in the basic sciences is required. Molecular biology experience/PCR expertise is desired. Morehouse School of Medicine is an expanding, new, private, medical school with a strong commitment to the training and professional development of minority scientists. Send curriculum vitae, names and phone numbers of three references, and statement of research experience to: **Dr. Sandra K. Davidson, Department of Microbiology and Immunology, Morehouse School of Medicine, 720 Westview Drive, S.W., Atlanta, GA 30310. FAX: 404-752-8443.**

**BIODIVERSITY AND TROPICAL FORESTRY STAFF SPECIALIST** (salary \$64,233 to \$83,502). USDA Forest Service, Forest Environment Research, Washington, DC, seeks Ph.D. in Biological Sciences including Ecology, Wildlife Biology, or Tropical Forestry, to provide leadership and coordination of national programs in biodiversity and tropical research. Formulates policies, research program objectives and budgets. Reviews and coordinates research programs of eight regional experiment stations. For vacancy announcement/application materials/additional information call: **Doug Ryan, 202-205-1524.**

## Alternative Thinking Fellowships

The Alternative Thinking Program has been designed to support research and scholarship which represent new departures within and across disciplines. It is intended to encourage the development and expression of minority views which challenge received doctrines and paradigms, and in this way to promote rethinking across all fields of knowledge. The program offers full research fellowships (one or two semesters, extendible). Send applications (including C.V. & research proposals) to Prof. Meir Sternberg, Faculty of Humanities, Tel Aviv University, Israel.

UNIVERSITY OF  
NEWCASTLE UPON TYNE



## CHAIR OF MARINE SCIENCES

Applications are invited for the established Chair of Marine Sciences in the Department of Marine Sciences and Coastal Management within the Faculty of Agriculture and Biological Sciences. This newly formed department is the focus of research and teaching activity in this subject area of long standing in the University. The Chair is seen by the University as providing an exciting opportunity to make further advances in this rapidly evolving field.

The successful applicant will be expected to have a strong research reputation in Marine Sciences and/or Coastal Studies to provide the necessary academic leadership to expand, develop and strengthen the research base of the Department and its academic staff.

Salary will be at an appropriate point in the Professorial salary range.

Further particulars may be obtained from Miss J M Kidd, Deputy Registrar, University of Newcastle, 6 Kensington Terrace, Newcastle upon Tyne, NE1 7RU, England, United Kingdom with whom applications, giving the names of three referees, should be lodged not later than 20th October, 1992.

## RESEARCH SCIENTIST

Saint Francis Hospital and Medical Center located in Hartford, Connecticut, is seeking candidates to join our Department of Research to establish new programs in cell and vascular biology. Candidates should have completed a doctoral degree and a postdoctoral fellowship and have prior experience in molecular aspects of cell biology. Candidates will be eligible for an appointment at the University of Connecticut School of Medicine. Interested candidates should send resume and references to: **Dr. Ernesto Canalis.**



### SAINT FRANCIS

Hospital and Medical Center  
114 Woodland Street  
Hartford, Connecticut 06105-1299  
Fax: (203) 548-5415

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## RESEARCH SCIENTISTS

We are a newly-established, well-funded, independent, not-for-profit biomedical research institute. Our 30,000 square feet of modern, state-of-the-art facilities are located on the North Shore University Hospital campus on Long Island, close to New York City and Cold Spring Harbor labs. We are seeking highly motivated, creative professionals to join our teams researching the following areas:

### Alzheimer's Disease

#### Staff, Post-Doctoral, and non-Ph.D. positions at all levels

Become a valued member of a team, headed by Dr. Michael P. Vitek, addressing the processing of Amyloid Precursor Protein, the role of Beta-Amyloid Peptide, and prevention of neurotoxicity in Alzheimer's Disease. Expertise in molecular or cell biology and protein or biochemistry is desired.

### Diabetes and Aging - Post-Doctoral Position

Study the molecular basis of novel receptor family in tissue remodeling and pathology in diabetes and aging. Requires expertise in protein or biochemistry and cell biology.

### Cytokine Biology - Post-Doctoral Position

Study the biochemistry and biology of macrophage-derived cytokines which are involved in inflammation and neoplastic disease. Requires expertise in biochemistry and cell biology.

We can offer you an excellent salary and benefits program, commensurate with experience and education. For confidential consideration, we invite you to forward a "c.v.", indicating area of interest and three references, to: **Human Resources Dept. S918, The Picower Institute, 350 Community Drive, Manhasset, New York 11030.** We are an equal opportunity employer m/f/h/v.



## The Picower Institute for Medical Research

## POSITIONS OPEN

### BIOMEDICAL RESEARCH TECHNICIANS—

We are an internationally renowned biomedical research institute based in New York City seeking seasoned career technicians to become involved in breakthrough research in the field of molecular cell biology with renowned scientists. One research study involves the mechanisms of intracellular protein transport. Responsibilities include cell culture and membrane preparation. Applicants must have a B.S. or M.S. in a life science plus a minimum of one year of work experience in a U.S. lab. Excellent communication skills are essential. Positions offer highly competitive salaries and benefits which include four weeks vacation and 100% tuition reimbursement, along with our state-of-the-art research environment. For immediate and confidential consideration, send your résumé to: **Box P-89, 29 West 35th Street, 7th Floor, New York, NY 10001. Equal Opportunity Employer M/F/D/V.**

CMU (Affirmative Action/Equal Opportunity Institution) encourages diversity, and resolves to provide equal opportunity regardless of race, sex, handicap, sexual orientation, or other irrelevant criteria.

### LABORATORY COORDINATOR

Central Michigan University (CMU) is seeking Laboratory Coordinator to coordinate multiple sections of general chemistry laboratory; assigns duties, trains and supervises graduate student teaching assistants; assists faculty in developing and testing laboratory experiments and demonstrations and contributes to chemistry laboratory instruction. Ph.D. in chemistry and experience in teaching is required. Salary is commensurate with qualifications. Applications will be accepted until the position is filled. Submit curriculum vitae and three letters of recommendation to: **CMU, Personnel Services, 109 Rowe Hall, Mt. Pleasant, MI 48859.**

### BIOCHEMISTRY RESEARCH POSITION

The University of Michigan Department of Biological Chemistry has an opening for a postdoctoral investigator to collaborate with Drs. M.J. Coon and A.D.N. Vaz on mechanisms of oxygen and peroxide activation by cytochrome P-450. Depending on qualifications, the person chosen would receive one of the following titles: **RESEARCH FELLOW, RESEARCH INVESTIGATOR, OR ASSISTANT RESEARCH SCIENTIST.** Necessary qualifications: Ph.D. in biochemistry or chemistry, strong chemical background, research experience on enzyme reaction mechanisms. Send credentials to the attention of: **Dr. Coon or Dr. Vaz, Department of Biological Chemistry, The University of Michigan, Ann Arbor, MI 48109-0606; or call (313) 764-9132 or 936-1154.**

The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities, and/or disabled individuals are encouraged.

**CYTOGENETICIST:** Perform cytogenetic analyses on chromosomally abnormal human and animal cell cultures as well as human/rodent somatic cell hybrid cultures. Perform special studies such as FISH, sister chromatid exchange, late labeling, etc. as required to characterize cultures fully. Conduct applied research to improve methods of cytogenetic characterizations. Prepare reports, tables, correspondence, and ideograms.

Coriell offers an excellent research environment and laboratory facilities, and a generous benefits package. Salary is negotiable.

Candidates should submit curriculum vitae and a list of at least three references to: the **Personnel Office, Coriell Institute for Medical Research, 401 Haddon Avenue, Camden, NJ 08103. Equal Opportunity/Affirmative Action Employer.**

### MONOCLONAL ANTIBODIES

Applications are invited for the position of **MONOCLONAL ANTIBODY PRODUCTION SUPERVISOR** at Medix. Responsibilities include supervision of all phases of monoclonal antibody production. Candidates must have a Ph.D. or M.S. with considerable experience. Industrial experience and knowledge of GMP are desirable. Medix Biotech Inc., a subsidiary of Genzyme Corporation, is an established producer of *in vitro* diagnostics and other immunological reagents, located in San Francisco Bay Area. Please send curriculum vitae to: **Personnel, Monoclonal Antibodies, Medix Biotech, 420 Lincoln Centre Drive, Foster City, CA 94404.**

## POSITIONS OPEN

### MOLECULAR IMMUNOLOGIST

The Department of Medicine in the University of Toronto (Division of Nephrology) seeks to appoint a molecular immunologist. Applicants should have completed the Ph.D. or M.D. degree, as well as a minimum of three years of postdoctoral research training. The successful candidate will be expected to establish an independent research program in the area of molecular immunology and to interact with members of the transplantation community. Generous start-up funds and adequate laboratory space in proximity to other active investigators in the area of basic molecular immunology will be provided to the successful candidate. *The University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian immigration requirements, this announcement is directed to Canadian citizens and permanent residents. Please send curriculum vitae and a list of referees before October 31, 1992 to:*

**Dr. Carl J. Cardella  
Chair, Search Committee  
Director, Division of Nephrology  
The Toronto Hospital  
200 Elizabeth Street 3GWE-543  
Toronto, CANADA M5G 2C4**

**MOLECULAR GENETICIST/BIOLOGIST:** a two-year appointment beginning approximately 1 October 1992 to implement molecular strategies and techniques needed to describe plant genetic uniqueness and genomic variation. Various DNA technologies including single locus and multilocus PCR-based typing/fingerprinting, and related STS-based mapping strategies will be employed. Experience in molecular genetics, particularly sequencing, mapping, and informatics is essential. Send curriculum vitae and three letters of recommendation to: **Dr. Stephen Kresovich, USDA-ARS, Plant Genetic Resources Unit, Cornell University, Geneva, NY 14456-0462; Telephone: 315-787-2244.**

*ARS is an Equal Opportunity Employer.*

### Pharmaceutical/ Biopharmaceutical

#### Career Opportunities

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Hampton, CT 06247

Telephone: 203-455-0151

Fee paid.

### PRINCIPAL INVESTIGATOR

The **Guthrie Research Institute (GRI)** is recruiting a scientist to lead an active research program in **cellular signalling mechanisms** at the molecular level. GRI offers an attractive startup package, excellent facilities, competitive salary, and continued endowment-based support to an investigator interested in working in an active and collegial research environment. GRI is part of the Guthrie Healthcare System (GHS), an active clinical, teaching and research center serving the twin tier regions of Pennsylvania and New York. Existing laboratories are involved in the study of receptor expression and signal transduction, TNF tumor resistance, integrin action and gene regulation, and HIV entry/fusion mechanisms. Please send curriculum vitae, summary of research interests and the names of three references to: **Chair, Search Committee, Guthrie Foundation, Guthrie Square, Sayre, PA 18840-1692. GHS is an Equal Opportunity/Affirmative Action Employer.**

### RESEARCH SCIENTIST II

Two-year professional staff position. Starts November 1, 1992. Duties include providing a landscape-level assessment of land-ocean interactions as mediated through riverine sediment transport processes and framework for resolving issues related to the effects of land-use practices on land-ocean interactions. A Ph.D. is required. Please submit a cover letter describing your interest in this position, curriculum vitae, copies of transcripts, and four references to: **Dr. Robert J. Naiman, Director, Center for Streamside Studies, University of Washington, AR-10, Seattle, WA 98195. Closing date: October 15, 1992. The University of Washington is an Equal Employment Opportunity/Affirmative Action Employer. Qualified women and minorities are urged to apply.**

## POSITIONS OPEN

### MOLECULAR BIOLOGIST

The University of Rochester, Department of Dental Research, invites applications for the faculty position of **SCIENTIST (RESEARCH ASSISTANT PROFESSOR, non-tenure-track)**. Position available immediately. Research area to include the study of the molecular biology and the structure/function relationship of ion transport mechanisms in exocrine glands. A Ph.D. with extensive postdoctoral experience in eukaryotic recombinant DNA techniques is required. However, recent Ph.D.'s with strong backgrounds will be considered. Salary commensurate with experience. Submit curriculum vitae and names of two references to: **Dr. James E. Melvin, University of Rochester Medical Center, 601 Elmwood Avenue, Box 611, Rochester, NY 14642. Affirmative Action/Equal Opportunity Employer.**

### RESEARCH SCIENTISTS AND

### INTELLECTUAL PROPERTY ATTORNEYS

Nationwide Openings for B.S./M.S./Ph.D. level candidates in **BIOTECHNOLOGY, PHARMACEUTICALS, BIOMEDICAL, DIAGNOSTICS AND THERAPEUTICS**. We invite you to call or write: **Joyce Talmadge, Ph.D., Vice President: Intellectual Property Attorneys or Sam Berr, Ph.D., Director: Science and Technology.**

**Howard-Sloan Professional Search, Inc.**

or

**Howard-Sloan Legal Search, Inc.**

Suite 1000, 1140 Avenue of the Americas, New York, NY 10036. Telephone: (212) 704-0444. Out of NY: (800) 221-1326. FAX: (212) 869-7999.

### REGULATORY POSITION

Terra International, Inc., a major distributor and formulator of agricultural chemicals, is seeking a manager for its Label Development Department. An eight- to ten-year work history, established relationships, and a proven track record with the Registration Division at EPA and Cal.-EPA are required. A degree in agriculture or related field is a plus.

The position reports to the General Manager, Riverside Product Business Unit and manages the regulatory department. The position is responsible for FIFRA issues, but must stay abreast of OSHA, DOT and other pertinent regulations affecting private labeling. The position is responsible for preparing and submitting scientifically sound regulatory packages to obtain new labels, amendments, and to defend current labels undergoing reregistration, special review or data call-ins.

This Iowa-based position offers an opportunity to build a career in the continually evolving crop protection and fertilizer industries. Terra offers a competitive compensation and benefits package. Send résumé with salary history to: **Box WSI, Suite 215, 1100 Jorie Boulevard, Oak Brook, IL 60521.**

**RESEARCH SCIENTIST—**Immediate opening for Ph.D. to work on metabolism of phospholipids, cholesterol and lipoproteins in macrophages. Applicant must have appropriate training and a record of scientific publications. This will be a non-tenure-track faculty appointment. Submit curriculum vitae with names of three references to: **Dr. Philip Greenspan, University of Georgia, School of Pharmacy, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.**

### WILDLIFE ECOTOXICOLOGIST

Develop estimates of waterborne concentrations of contaminants that are thresholds for adverse effects in wildlife, and oversee development of a toxicological database for wildlife. Position requires: (1) a Ph.D. (or equivalent degree and experience) in environmental toxicology, wildlife ecology or a related field; (2) basic understanding of toxicology; (3) one year of field experience working on wildlife ecology studies; (4) good written and oral presentation skills; (5) experience with IBM compatible computers and (6) willingness/physical ability to travel and perform field work. Interested candidates should write or call for a complete position description, which lists preferred qualifications and application procedures. Application packages must be received by October 5, 1992. **Human Resources, Man-Tech Environmental, 1600 SW Western Boulevard, Corvallis, OR 97333. Telephone: (503) 754-4666. Equal Opportunity Employer.**

**REQUEST FOR PROPOSALS  
SUPPLEMENT TO THE UNITED STATES ARMY  
MEDICAL RESEARCH AND DEVELOPMENT COMMAND  
BROAD AGENCY ANNOUNCEMENT**

The U.S. Army Medical Research and Development Command (USAMRDC) has a special interest in preproposals for medical research directed toward defining the pathogenesis and medical treatment against biological threat agents. The objectives of the program are prophylaxis or pretreatment to prevent casualties; identification and diagnosis of biological agents; and treatment or supportive care regimens. Specific areas of interest include the following:

**BACTERIAL STUDIES**

- Organisms of interest include anthrax, plague, tularemia, *Brucella* sp., and *Clostridium perfringens*.
- Molecular characterization of the organism.
- Investigations of the pathogenesis and immunology that will allow decisions regarding the approach to disease prevention and control.
- Development of monoclonal antibodies for epitope and serological analysis.
- Molecular approaches to the development of new or improved vaccines against the agents of interest.
- Expression of protective antigens using recombinant technology.
- Development of improved methods of delivery of vaccines.

**TOXIN AND VENOM RESEARCH**

- Toxins of interest include ricin, Staphylococcal enterotoxins, botulinum, mycotoxins, saxitoxin, and tetrodotoxin. Venoms of interest are from snakes, snails, and insects.
- Development of human vaccines for the above toxins and venoms.
- Physico-chemical characterization of toxins and venoms.
- Development of sensitive and specific chemical or biological assays for the rapid diagnosis of intoxication.
- Study the pathogenesis of intoxication.
- Development of antitoxin drugs.

The goal of this research for the U.S. Army Medical Biological Defense Research Program is to develop countermeasures and procedures which preserve the capabilities of the armed forces of the United States. The United States Army Medical Research and Development Command supports extramural research by competitive award of contracts. Those parties interested in competing for research funding under this supplement can obtain a brochure on the application process by writing to the following address:

**Commander  
United States Army Medical Research and Development Command  
ATTN: SGRD-ACQ (BAA)  
Fort Detrick  
Frederick, Maryland 21702-5012**

**ANALYTICAL SERVICES  
PROVIDED BY THE  
COMPLEX CARBOHYDRATE  
RESEARCH CENTER**

The Complex Carbohydrate Research Center (CCRC) of the University of Georgia has been designated a *Resource Center for Biomedical Complex Carbohydrate Science* by the National Institutes of Health and a *Plant and Microbial Carbohydrate Center* by the Department of Energy. Analytical assistance is provided for scientists in university, industrial, and government laboratories conducting research on complex carbohydrates derived from animal, plant and microbial sources. The following services are offered:

- **Technical advice**
- **Glycosyl composition analysis**
- **Glycosyl linkage analysis**
- **Molecular weight determinations**

Techniques used for analyses include gas-liquid chromatography, gas-liquid chromatography-mass spectrometry, fast atom bombardment-mass spectrometry, and 250<sup>2</sup>- and 500-MHz <sup>1</sup>H-NMR and <sup>13</sup>C-NMR spectroscopy.

Please do not submit samples without prior agreement. For information regarding the criteria for sample preparation and costs of sample analysis or for methodological advice regarding carbohydrate samples, address inquiries to either Dr. Roberta K. Merkle, Technical Director for Biomedical Carbohydrates, or Dr. Russell Carlson, Technical Director for Plant and Microbial Carbohydrates, Complex Carbohydrate Research Center, 220 Riverbend Road, The University of Georgia, Athens, Georgia 30602-4712. Facsimile: 706-542-4412. Phone: 706-542-4402.

## Research Associate NEUROBIOLOGY

As an innovator in the discovery, development and marketing of human therapeutics, Amgen is a rapidly growing leader in the biotechnology industry. Through the successful introduction of such products as EPOGEN® (recombinant human Erythropoietin) and NEUPOGEN® (recombinant human G-CSF), we are able to provide talented professionals with exceptional growth opportunities.

We currently seek a meticulous, highly motivated Research Associate to test new growth factors for neurotropic activity (survival, neurite outgrowth, etc.) in primary neuronal cultures. Responsibilities include performing dissections under microscope, immunohistochemistry on cultured cells, and maintaining tissue culture laboratory equipment. The successful candidate must have a Bachelor's degree, demonstrated tissue culture skills the ability to interact well with others and a willingness to learn. Experience with microdissection desirable. A background in cell biology/neurobiology strongly preferred.

**Amgen offers a very competitive compensation and benefits package in addition to a stimulating work environment. If you have the necessary qualifications and would like to be part of an organization that places its highest value on the contributions of its people, send your resume to: Amgen, Inc., Staffing Department, Code #S-501, Amgen Center, Thousand Oaks, CA 91320-1789. Amgen is an Equal Opportunity Employer.**

**AMGEN®**

Principals only, please.

**VZV**

**ANNOUNCING APPLICATIONS  
FOR THE VARICELLA-ZOSTER VIRUS  
POSTGRADUATE FELLOWSHIPS  
Two \$50,000/Year Awards**

The VZV Research Foundation announces an international competition for two postgraduate fellowships to study the pathogenesis of the varicella-zoster virus (VZV) and associated sequelae.

Applicable research areas include: virus host interactions; neuron growth; nerve cell interactions; post-herpetic neuralgia and pain management.

Each \$50,000 grant includes \$35,000 annual salary plus benefit allowance, and research allowance for the sponsoring lab. Second year support is contingent on satisfactory progress.

Foundation requires mentor letter of intent and evidence of external funding for research on VZV or allied field.

Applications available October 1, 1992.

Filing deadline January 31, 1993.

Fellows will be notified April 1, 1993.

Funding starts July 1, 1993.

For application, write: Fellowship Committee-S, The VZV Research Foundation, Inc., 40 East 72nd Street, New York, NY 10021.

The VZV Research Foundation, established in 1991, is the only non-profit organization fighting all manifestations of VZV. Guided by 24 international physicians and scientists.

## POSITIONS OPEN

**ASSOCIATE RESEARCH SCIENTIST** to join multidisciplinary group in the Department of Pediatrics at Columbia University. The candidate will be studying purification, characterization and molecular genetics of human ferrochelatase. Ph.D. required with strong background in protein biochemistry; molecular biology experience helpful. Excellent benefits and modern facilities. Submit curriculum vitae, statement of research interests and three references to: **Dr. Sergio Piomelli, Columbia University, Department of Pediatrics, 630 West 168th Street, New York, NY 10032. Equal Opportunity/Affirmative Action Employer.**

**RESEARCH SCIENTIST:** Senior Microbiologist, R&D Fermentation Development. Lab scale process improvement projects. Position requires Ph.D. or M.S. and 5 years of industrial strain development work. Principals will have good working knowledge of *Bacillus* genetics and physiology and be capable of running a successful strain development program. Salary commensurate with experience. Send curriculum vitae to: **Personnel Department JS, A. L. Laboratories, Inc., 400 State Street, Chicago Heights, IL 60411.**

### STATISTICAL PROGRAMMER

Columbia University's Irving Center for Clinical Research will coordinate a highly visible, federally funded, multicenter trial of stroke prevention. This position, the lead programmer for the project, will design and program statistical analyses and reports under the direction of the project biostatistician. Title: **ASSOCIATE RESEARCH SCIENTIST.** A Ph.D. in biostatistics, public health or social sciences and two years of experience is required. Knowledge of SAS STAT, AF, and FSP is desired.

Salary is commensurate with experience and skill level. *Columbia University takes affirmative action to ensure equal opportunity.*

Send résumé and cover letter to: **Mr. Don McMahon, Ph-4-124 Clinical Research, 622 West 168th Street, New York, NY 10032.**

### SCIENTIST IN VIVO TUMOR PRODUCTION

Experienced scientist sought to develop methods of *in vivo* tumor production. Candidates should have Ph.D. or equivalent training in cell biology, microbiology or biochemistry, and one to three years of experience in mammalian tissue culture. Ventana Medical Systems is an expanding biotechnology company offering excellent opportunities for advancement and career development. Interested candidates should send résumé to: **Director of Personnel, Ventana Medical Systems, Inc., 3865 North Business Center Drive, Tucson, AZ 85705.**

**VIROLOGY RESEARCH POSITION:** The Tulane Regional Primate Research Center in Covington, LA, affiliated with Tulane University has an opening for a virologist to conduct *in vivo* studies for the evaluation of antiviral drugs and development of animal viral disease models. A strong interest in viral pathogenesis and clinical virology is required and experience with herpesviruses or other DNA viruses highly desirable. Some molecular training and experience would be a major advantage. Salary will be commensurate with experience. Interested applicants should send curriculum vitae and references from three individuals to: **Dr. Kenneth F. Soike, Tulane Regional Primate Research Center, 18703 Three Rivers Road, Covington, LA 70433. Tulane University is an Equal Opportunity/Affirmative Action Employer.** Applications must be received by November 15, 1992.

### WOUND HEALING RESEARCHER

**The University of Mississippi School of Medicine  
Division of Plastic Surgery  
Department of Surgery**

A position at the level of Ph.D. or masters with two years of experience in related fields. Ideally seeking a postdoctoral researcher to direct projects related to wound healing growth factors, and the immunological response to biologic implants. Please send curriculum vitae and letter stating career goals and areas of interest to: **Suman K. Das, M.D., Professor, Division of Plastic Surgery, 2500 North State Street, Jackson, MS 39216. The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F/D/V.**

## SITUATIONS WANTED

**VETERINARIAN/BIOLOGIST/TOXICOLOGIST/RESEARCH ASSOCIATE/ASSISTANT SCIENTIST.** Foreign veterinary graduate, B.V.Sc.&A.H. (1975), M.S.(1984, U.S.A.). Nine years of experience in toxicology laboratory procedures such as spectrophotometry, T.L.C., column chromatography, assaying of hepatic drug-metabolizing enzymes, serum enzymes, acute toxicity tests of N C E, and fungicides and pesticides, teratological studies in mice, rats and rabbits, gross pathology, clinical pathology, pyrogen-testing of injectables, overall maintenance and day-to-day functioning of toxicology laboratory. Laboratory Animal House management, poultry production and management. Seeks challenging position in industry, diagnostic laboratories or academics. c/o Advertiser, 230 Opelika Road, #111, Auburn, AL 36830. Telephone: (205) 826-1155 or (205) 724-4107.

## COURSES AND TRAINING

### COURSE ON CRYOPRESERVATION OF MOUSE EMBRYOS October 26 to 30, 1992

All aspects of zygote and cleavage-stage embryo cryopreservation will be taught in this "hands-on" course. Co-directors: L. E. Mobraaten, The Jackson Laboratory and S. P. Leibo, University of Guelph. For further information contact: **Ms. Linda Neleski, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609. Telephone: (207) 288-3371, FAX: (207) 288-8982 or 288-5079, E-mail: lem@jax.org.**

## MEETINGS

**THIRD CONFERENCE ON RESEARCH POLICIES AND QUALITY ASSURANCE.** Government Regulations May 2-5, 1993, Baltimore, Maryland. Request brochure from:

**Dr. ADIL E. SHAMOO  
Department of Biological Chemistry  
University of Maryland at Baltimore  
660 WEST REDWOOD STREET  
BALTIMORE, MD 21201  
OR FAX (301) 328-8297**

### PHARMACEUTICAL DESIGN USING EPTOPE SELECTION TECHNOLOGIES

February 1-2, 1993; Hyatt Richeys, Palo Alto, CA.  
**SPEAKERS:** G. Smith, M. Geysen, R. Balint, R. Houghten, J. Wells, R. Hoess, K. Lam, R. Ladner, M. Kahn, W. Dower, J. Winter, C. Craik, L. Loeb, A. Ellington, L. Griffin, J. Szostak, S. Fodor, C. Tuerk, J. Blaney, C. Barbas, F. Cohen, D. Burton, B. McDowell, J. Marks. **Organizers:** James Larrick; Robert Balint. **Abstracts due:** January 15, 1993. **Sponsor:** Palo Alto Institute of Molecular Medicine; 2462 Wyandotte Street, Mountain View, CA 94043; FAX: 415-851-3959; Telephone: 415-694-4996.

### VIIth INTERNATIONAL SYMPOSIUM ON BIOLUMINESCENCE AND CHEMILUMINESCENCE

March 14-18, 1993  
Banff, Alberta  
Canada

**Organizer:** Dr. A.A. Szalay, Professor and Chair, 6-30 Medical Science Building, University of Alberta, Edmonton, Alberta, T6G 2H7 Canada.

**Topics:** Bioluminescence, Chemiluminescence (Molecular Genetics and Biochemistry), Cellular Luminescence, Reagents, Diagnostics, Light Measurement, Instrumentation and Imaging.

**Call for Papers:** Abstracts (maximum 250 words): Deadline November 1, 1992. Please request abstract, format by Fax: (403) 492-1782.

Direct requests for abstract format and registration information to: **Symposium Secretariat, Plant Molecular Genetics Laboratories, attention: A.A. Szalay or Sharon Katzeff, 6-30 Medical Science Building, University of Alberta, Edmonton, Alberta, T6G 2H7 Canada. Telephone: (403) 492-1774; Fax: (403) 492-1782.**

## MEETINGS

**Third Biennial ISACB Meeting Toward Application of Advances in Basic Cardiovascular Biology,** November 5 to 8 1992, Adams Mark Hotel, St. Louis, Missouri, USA. Meeting Organizers: Allan D. Callow, M.D., Ph.D., Peter Libby, M.D. and Steven P. Schmidt, Ph.D. For information call Continuing Medical Education, Washington University School of Medicine, Telephone: (800) 325-9862 or (314) 362-6893 or FAX: (314) 362-1087.

### AIDS SYMPOSIUM MEHARRY MEDICAL COLLEGE OCTOBER 21, 1992

In honor of Dr. C.W. Johnson, Sr., an outstanding physician, scientist and administrator, an AIDS Symposium featuring some of the most outstanding researchers in the field will be held. The speakers and their topics are Dani Bolognesi—Duke University—*Status of AIDS Vaccine Development*; James Curran—CDC—*Epidemiology and Prevention of HIV Infection*; Dr. Leon Epstein—University of Rochester—*HIV Infection of the Nervous System*; Dr. Helene Gayle—AID—*International AIDS Crisis*; Dr. Michael Glick—Temple—*Oral Manifestation of HIV Disease*; Dr. Phillip Pizzo—NIH—*Pediatric AIDS*; Dr. Steven Wolinsky—Northwestern University—*HIV Transmission and Genetic Variation*.

Continuing Education credits are available. The registration fee is \$100—no charge to students. Contact **Sylvia Wright** for additional information at (615) 327-6177 or (800) 835-2391.

Program Director: **Dr. George C. Hill, Meharry Medical College, 1005 D.B. Todd Boulevard, Nashville, TN 37208.**

### THE HEALTH EFFECTS INSTITUTE (HEI) NINTH ANNUAL CONFERENCE

December 6-9, 1992  
Monterey, California

HEI's annual conference is a forum for discussion among scientists, government officials, and industry representatives, of scientific and regulatory issues relating to the health effects of motor vehicle emissions.

At this year's meeting the main foci will be the presentations of two large HEI studies intended to resolve major uncertainties about the health effects of two important mobile source pollutants: diesel exhaust and nitrogen dioxide. The results of these studies will be placed in the context of the existing scientific information and the regulatory process.

The conference will also include a work-in-progress presentation of HEI structural, functional, and biochemical studies that build on a NTP ozone cancer bioassay, a discussion of research to develop personal ozone monitors, and poster presentations of all HEI-funded studies.

The Health Effects Institute is a non-profit corporation that funds research and evaluates the health effects of automotive exhaust. It is jointly funded by the U.S. Environmental Protection Agency (EPA) and 28 motor vehicle companies.

Registration for the meeting is \$125. Participation is limited and by pre-registration only. For further information contact:

**The Health Effects Institute  
141 Portland Street, Suite 7300  
Cambridge, MA 02139  
Telephone: (617) 621-0266**

## ANNOUNCEMENTS

### Smithsonian Institution Fellowship Program

**GRADUATE STUDENT, PRE-, POST-, AND SENIOR POSTDOCTORAL FELLOWSHIPS** in American History and material culture, anthropology, biological sciences, earth sciences, history of art, history of science and technology. Tenable in residence at the Smithsonian and its facilities. Stipends and tenure vary.

Deadline: January 15th annually.

Contact: **Smithsonian Institution, Office of Fellowships and Grants, 955 L'Enfant Plaza, Suite 7000, Desk S, Washington, D.C. 20560, (202) 287-3271. Awards are based upon merit, without regard to race, color, religion, sex, national origin, age or condition of handicap of applicant.**



**Department of Human Genetics  
Memorial Sloan-Kettering Cancer Center**

The newly established Department of Human Genetics at Memorial Sloan-Kettering Cancer Center is inviting applications for faculty positions. Both senior and junior level appointments will be made in the areas of molecular genetics, genetic epidemiology and genome analysis. A focus of the recruitment will be in the area of the genetics of cancer, although qualified applicants with research interests in other human genetic diseases and relevant animal models are encouraged to apply. The Department will occupy new research laboratories on a campus which includes outstanding established basic research and clinical departments.

Interested applicants should forward their curriculum vitae, bibliography and the names of three references to:



Jeffrey V. Ravetch, M.D., Ph.D.  
Chairman,  
Human Genetics Search Committee  
Memorial Sloan-Kettering Cancer Center  
1275 York Avenue  
New York, New York 10021

*An Equal Opportunity/Affirmative Action Employer*

## NEW ENGLAND BIOLABS

### Postdoctoral Positions

New England Biolabs, a pioneer and leader in biotechnology located twenty miles north of Boston, is seeking applicants for:

**Molecular Biologist**—Successful candidate will study regulation of restriction modification systems. Candidate should have background in prokaryotic genetics or biochemistry and experience with molecular biological techniques. Previous experience with protein purification would also be useful. (Dr. J. E. Brooks)

**Biochemist**—Recent graduates with experience in enzymology are particularly encouraged to apply. The project available is to characterize the activity of McrBC, a novel GTP-dependent modification-specific restriction endonuclease of *E. coli* K-12. The major focus is the study of barriers to gene exchange in microorganisms, using genetic and molecular techniques. (Dr. E. A. Raleigh)

In addition to competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged.

Candidates please submit curriculum vitae with three references to:

**New England Biolabs, Inc.**  
**Human Resources**  
32 Tozer Road  
Beverly, MA 01915-5510  
An Equal Opportunity Employer



NEW ENGLAND

**Biolabs**

### IMMUNOLOGY TRAINING AT THE UNIVERSITY OF ROCHESTER

Postdoctoral and Predoctoral Fellowships in Cellular and Molecular Immunology, funded by NIH Training Grants and other sources, are available in the Department of Microbiology and Immunology and in the Cancer Center at the University of Rochester School of Medicine and Dentistry. Research interests of the Immunology faculty include:

- George N. Abraham:** Molecular and Cellular Analysis of Monoclonal Immunoglobulinopathies
- Richard A. Barth:** T Cell Receptor Gene Expression and Regulation in Transgenic Mice
- Nicholas Cohen:** The Ontogeny and Phylogeny of Immunity; Psychoneuroimmunology
- John G. Frelinger:** Molecular Immunology; Tumor Immunology
- Richard A. Insel:** Human Antibody Gene Expression; Molecular Basis of Immunodeficiency
- Edith M. Lord:** Host-Tumor Cell Interactions
- Richard P. Phipps:** Regulation of B Lymphocytes by Prostaglandins; Lung Fibroblast Heterogeneity and Cytokine Production
- David W. Scott:** Tolerance and Regulation of B Lymphoma Growth
- Maurice Zauderer:** T Cell Receptors and Target Antigens in Autoimmune and Tumor Immune Responses

The University of Rochester was founded as a private institution in 1850. It has a long tradition of academic excellence and a history of research accomplishments. The Immunology Program in the Department of Microbiology and Immunology has enjoyed significant expansion in recent years. A new laboratory wing dedicated to immunology has been completed and several new faculty appointments have been made. The city of Rochester is located on Lake Ontario in the Finger Lakes Region of western New York State with cultural and recreational resources that are unusually diverse and accessible.

Postdoctoral applicants should indicate the faculty members with whom they may wish to train and send a *curriculum vitae*, list of references and summary of research interests to the address below. Those interested in the graduate program should request application materials from:

**Dr. Nicholas Cohen**  
Director, Division of Immunology  
Department of Microbiology and Immunology  
Box 672, University of Rochester  
School of Medicine and Dentistry  
Rochester, New York 14642

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## Scios and Nova Announce Scios Nova Inc.

Scios Inc. and Nova Pharmaceutical Corporation have completed their merger to form Scios Nova Inc.

Scios Nova Inc. is a biopharmaceutical company with five key innovative products in various phases of clinical testing, and several others in preclinical evaluation. Scios Nova Inc.'s drug discovery technology encompasses both Scios' expertise in protein-based recombinant biopharmaceuticals and Nova's experience with synthetic, small molecule drugs. Scios Nova Inc.'s broad product portfolio and technical synergy increases the company's opportunity for success.

Scios Nova Inc. is headquartered in Mountain View, California, with additional research and development facilities in Baltimore, Maryland.

To learn more,  
please write or call:  
**Scios Nova Inc.**  
Investor Relations  
2450 Bayshore Parkway  
Mountain View, CA 94043  
415 940 6631

**SCIOS**  **NOVA**



## AMERICAN ASSOCIATION FOR CANCER RESEARCH 84th Annual Meeting

Michael B. Sporn, Program Chairperson  
Orange County Civic Center, Orlando, FL  
May 19-22, 1993

### *Plenary Sessions and Symposia: Titles and Chairpersons*

**Impact of Molecular Biology on Cancer: Its  
Detection, Prevention, and Treatment** -  
Joint AACR/ASCO Session - Stephen H. Friend

**Transgenic Mice as Models for Cancer  
Pathogenesis** Owen N. Witte

**From Bench to Clinic: Concepts in the Design  
and Targeting of New Chemotherapeutic  
Agents** Bruce A. Chabner

**Invasion, Metastasis, and Angiogenesis** Robert  
S. Kerbel

**Mechanism of Action of Chemopreventive  
Agents: Basic Science and Clinical  
Applications** Martin Lipkin and Anita B.  
Roberts

**Topics in Drug Resistance** June L. Biedler

**Advances in Molecular Epidemiology of Human  
Cancer** Curtis C. Harris

**Cytokines in the Immunomodulation of Cancer**  
Elizabeth A. Grimm

**The Biology and Therapeutic Application of  
Normal Hematopoietic Stem Cells** Malcolm  
A. S. Moore

**The Restoration of Normal Function to  
Preneoplastic and Neoplastic Cells:  
Strategies for Differentiation Therapy** Waun  
Ki Hong

**Nitric Oxide and Superoxide as Endogenous  
Mediators of Carcinogenesis** Steven R.  
Tannenbaum

**The Biology and Pathogenesis of Prostate  
Cancer** Maarten C. Bosland

**Vitamin D and Cancer** Michael B. Sporn

**Stromal-Epithelial (Paracrine) Influences on  
Neoplasia** Gerald R. Cunha

**Proteases and Carcinogenesis** Lynn M.  
Matrisian

**Strategies for Utilization of Tumor-specific  
Antisense Molecules or Ribozymes for the  
Control of Tumor Growth** Jack S. Cohen

**Biology and Genetics of Human Preneoplastic  
Lesions** Walter N. Hittelman

**Human DNA and Protein Adduct Dosimetry:  
Assessment of Risk for the Development of  
Primary and Secondary Cancers** Regina M.  
Santella

**Biology and Treatment of Pediatric Cancer**  
Richard J. O'Reilly

**Latest Advances in Tumor Suppressor Genes**  
Edward E. Harlow

**Immunologic Approaches to Targeted Therapy**  
Ira Pastan

**Molecular Basis for the Modulation of  
Radiation Sensitivity** Gillies S. McKenna

**Gene Rearrangements in Cancer** Stanley J.  
Korsmeyer

**Protein Phosphatases in Carcinogenesis** Claude  
B. Klee

**Protein Kinase C: Modulation of the Cancer  
Phenotype and Target for Chemotherapy**  
Peter M. Blumberg

**The EGF and FGF Receptor Superfamilies:  
Recent Advances in Ligands, Receptors, and  
Signal Transduction** Andrew Baird and  
Michael Klagsbrun

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**Abstract Deadline: November 25, 1992**

**Further Information:** AACR Office • Public Ledger  
Building • 620 Chestnut Street • Suite 816 •  
Philadelphia, PA 19106-3483

**TELEPHONE (215) 440-9300 • FAX (215) 440-9313**

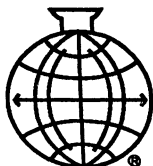
# STUDY DIRECTOR

**INTERNATIONAL RESEARCH AND DEVELOPMENT CORPORATION** is a leading independent contract research laboratory specializing in animal safety evaluation studies for the pharmaceutical, agricultural, chemical and consumer industries as well as governmental agencies.

The successful candidate for our **STUDY DIRECTOR** will be a highly motivated DVM or Ph.D. in the research or pharmaceutical industries or contract toxicology labs with 2-3 years solid experience in safety evaluation.

**INTERNATIONAL RESEARCH AND DEVELOPMENT CORPORATION** offers its employees continued career opportunities and provides competitive compensation and benefits including an attractive investment and stock ownership plan. We are located in a progressive urban area outside Kalamazoo, MI, midway between Detroit and Chicago.

If you would like to become a member of our rapidly growing Company and your credentials meet our requirements, please forward your resume with salary history to:



**Director of Human Resources  
International Research and  
Development Corporation**  
500 N. Main Street  
Mattawan, Michigan 49071

**IRDC IS AN EQUAL OPPORTUNITY EMPLOYER**



## MAMMALIAN TOXICOLOGIST

Rhône-Poulenc, a leader in the agrochemical industry, has an exciting and challenging opportunity in its Global Agrochemical Toxicology Department in **LYON, FRANCE**, home of our worldwide headquarters. This position will be initially located in Lyon for approximately three (3) years with reassignment to Research Triangle Park afterwards.

The successful candidate will assist in establishing and maintaining mammalian toxicology programs or new and existing products. Responsibilities include protocol design, monitoring of contract studies, consultation with business groups and interaction with federal and local regulatory groups. A Ph.D. in Toxicology, D.V.M., or equivalent with 0-5 years post-graduate experience is required. Effective interpersonal, written and oral communication skills are critical as well. Knowledge of the French language is not necessary; however, the willingness to learn French is essential.

We will offer competitive salary, benefits and relocation packages. If you desire to join a "leader" in a dynamic industry, please forward your resume, including salary history and requirements, to:

**Employment Manager (T)**

**RHÔNE-POULENC AG COMPANY**  
P.O. BOX 12014  
Research Triangle Park, NC 27709

We are an Equal Employment Opportunity Employer. We do not discriminate on the basis of race, religion, color, sex, age, national origin or disability.

## Postdoctoral Fellow

Genentech, Inc., a leader in the field of biotechnology, is seeking a postdoctoral fellow to investigate the metabolism of humanized monoclonal antibodies.

The research will focus on the metabolism and mechanism of action, both cellular and in biological matrices, of an anti-integrin antibody therapeutic currently under consideration at Genentech. The processing of this antibody is of particular importance in terms of potential immunogenicity as this protein targets antigen presenting cells. This position is with Dr. Judy Fox in the Metabolism Group headed by Dr. Bill Hancock. To qualify, you will need a PhD in biochemistry, cell biology, immunology or analytical biochemistry.

Our extensive benefits package includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities, free health club membership and an employee stock purchase plan. Send your resume to: Genentech, Inc., Human Resources Dept.#CLJF, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment. Women and minorities are encouraged to apply.

**Genentech, Inc.**

## Postdoctoral Researchers

Genentech, Inc., a leader in the field of biotechnology, is always seeking motivated individuals for the following positions:

- Cell Genetics
- Molecular Biology
- Protein Chemistry
- Developmental Biology
- Cardiovascular Biology
- Immunobiology
- Protein Engineering

You will conduct independent research in the areas of our scientific interests, publish in scientific journals, attend and present work at scientific conferences, and maintain close ties with the academic community. You should have a recent PhD in a life science coupled with a good publication record.

Our extensive benefits package includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities, free health club membership and an employee stock purchase plan. Send your resume to: Genentech, Inc., Human Resources Dept.#YDPD, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment. Women and minorities are encouraged to apply.

**Genentech, Inc.**

## Research Assistants/Associates

Genentech, Inc., a leader in the field of biotechnology, is always seeking talented Research Assistants/Associates. In these positions, you should have a BS/MS in Biochemistry, Molecular Biology, or related scientific field complemented by 2+ years' experience in one or more of the following: molecular biology/biochemical techniques, assay development, tissue culture techniques, protein sequencing and characterization, and/or hybridoma techniques.

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## FACULTY POSITIONS

### TULANE UNIVERSITY MEDICAL CENTER

#### NEW ORLEANS, LOUISIANA

Two positions are available in the new Lung Biology Program under the direction of Dr. Arnold R. Brody, to be located in the Bioenvironmental Research Center currently under construction on the Medical Center campus. One position is a tenure-track assistant professor; the other is a research assistant professor. Both offer attractive salaries and start-up support. Both individuals must clearly demonstrate expertise in modern molecular biology and biochemical techniques. The incumbents will carry out an independent research program and play an important role in the collaborative research of the Lung Biology Program. Send C.V., pertinent reprints, and three letters of recommendation by December 31, 1992, to:

Dr. Arnold R. Brody  
Pulmonary Pathology Lab  
National Institute of Environmental  
Health Sciences  
PO Box 12233  
Research Triangle Park, N.C. 27709

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For consideration, submit resume to: **Melanie M. Lewis, Human Resources, ICI Pharmaceuticals Group, Concord Pike and New Murphy Road, Wilmington, DE 19897.**



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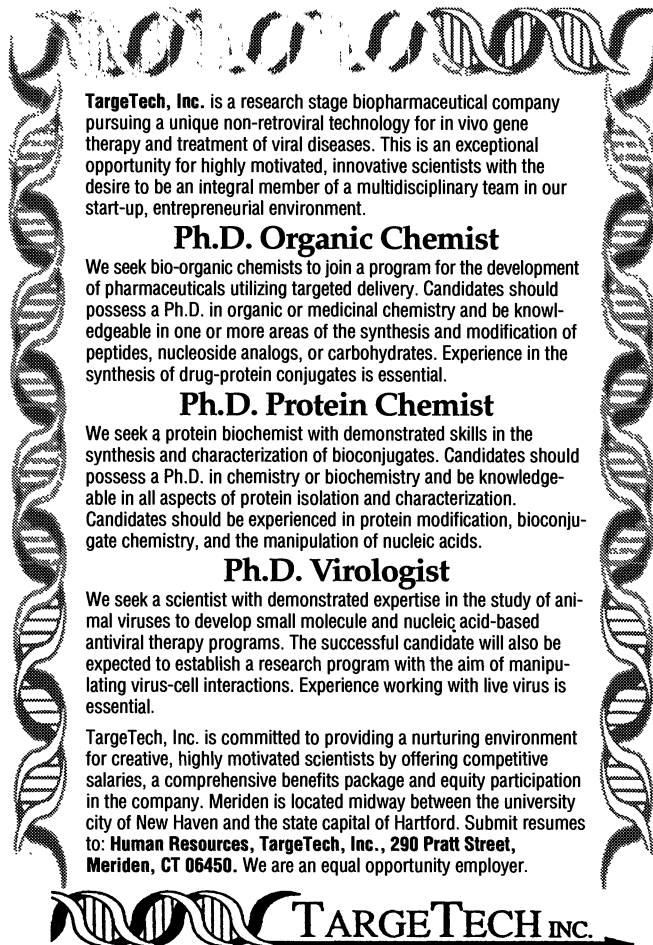
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## WOMEN IN SCIENCE March 13 Reprint

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The R.W. Johnson Pharmaceutical Research Institute in La Jolla, California has an opening for a two-year Postdoctoral Research Fellow appointment.

The position is available immediately in the Molecular Biology group to study novel strategies for the generation of artificial/synthetic antibodies. Current projects include the design and development of phage display systems for the expression of antibody libraries. These studies will involve recombinant DNA technology, protein biochemistry and the use of cell based assay systems. Applicants should have a strong background in molecular biology and cell biology.

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For application materials and information on participating laboratories contact:



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### FELLOWSHIPS

A limited number of postdoctoral and predoctoral fellowships are available from Sigma Delta Epsilon-Graduate Women in Science, Inc. Applications from women are particularly encouraged.

Fellowships are for \$1,500 to \$4,000.

A total of \$14,500 is available.

Deadline is December 1, 1992.

For additional information and applications forms:

Sigma Delta Epsilon-Graduate Women  
in Science, Inc.

One Illinois Center, Suite 200  
111 East Wacker Drive  
Chicago, IL 60601-4298

Requests for Eloise Gerry Fellowship forms should be made by those in the Biological & Chemical Sciences; all others should request SDE Fellowship forms.

### TRAVEL AWARDS

Eli Lilly Travel Awards for women graduate students presenting at national meetings are available through Sigma Delta Epsilon-Graduate Women in Science, Inc. For information write:

Dr. Barbara Jur  
31699 Forest Lane  
Warren, MI 48093

### SCIENCE SCHOLARS FELLOWSHIP PROGRAM

Women scientists who are U.S. citizens and have held the Ph.D. for two years are eligible. Stipend \$31,300 plus research expenses for a one-year residential appointment, September 1, 1993 to August 31, 1994. Some discipline restrictions apply. Deadline is October 15, 1992. For more information, write or call: The Bunting Institute of Radcliffe College, Fellowships Office, 34 Concord Avenue, Cambridge, MA 02138. Telephone: (617) 495-8212. FAX: (617) 495-8136.

### THE HEISER PROGRAM FOR RESEARCH IN LEPROSY AND TUBERCULOSIS

Support for research in tuberculosis, which was added to The Heiser Program last year, is being continued. Beginning POSTDOCTORAL RESEARCH FELLOWSHIPS available in amounts up to \$25,000 per year, plus other allowances, and RESEARCH GRANTS in amounts up to \$20,000. Applicants should have M.D., Ph.D., or equivalent degree. Applications by 1 February 1993 for awards to be activated July through December 1993. For information, write: The Heiser Program, 450 East 63rd Street, New York, NY 10021.

## ANNOUNCEMENTS

**JOINT GRADUATE PROGRAM IN TOXICOLOGY, RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY AND THE UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY/ROBERT WOOD JOHNSON MEDICAL SCHOOL.** We are engaged in a national search for scholars who wish to earn the M.S. and/or Ph.D. in Toxicology. Our internationally recognized faculty will provide an opportunity for you to study and to do research in carcinogenesis, mutagenesis, teratogenesis, toxicology of solvents and metals, biochemical mechanisms of toxicity, environmental toxicology, toxicology of the nervous system, the immune system, liver, bone marrow and skin, metabolism of chemicals and the application of molecular biological techniques to toxicology. We strive to couple the results of basic toxicological research with modern approaches to risk assessment. The Program is based in the new Environmental and Occupational Health Sciences Institute, which is devoted to studies covering a broad range of environmental issues. Students are supported by our N.I.E.H.S. training grant, industrially supported fellowships, and graduate teaching assistantships. For complete information please write to: Dr. Robert Snyder, Director, Joint Graduate Program in Toxicology, Environmental and Occupational Health Sciences Institute, 681 Frelinghuysen Road, Piscataway, NJ 08855-1179, or call (908) 932-0213.

### Ph.D. AND POSTDOCTORAL STUDIES IN PLANT BIOLOGY

#### UNIVERSITY OF WISCONSIN-MADISON

A new training program for graduate students and postdoctoral fellows, funded by the DOE/NSE/USDA Collaborative Research in Plant Biology Program, is accepting applications immediately. The focus of this group is use of a model higher plant, *Arabidopsis thaliana*, for research in plant signal transduction. The research plan has flexibility to accommodate candidates with different backgrounds and interests. The purpose is to provide broad, multi-disciplinary training in genetics/molecular biology, biochemistry, electrophysiology, and anatomy/immunocytochemistry. The 12 participating faculty include: Amasino, Barton, Becker, Bleecker, Evert, Fernandez, Keegstra, Kung, Masson, Sussman, Vierstra, and Willis. Interested students/postdocs should apply by writing to:

Professor Michael R. Sussman  
University of Wisconsin-Madison  
Plant Sciences Building  
1575 Linden Drive  
Madison, WI 53706-1590

### RESEARCH ASSOCIATES IN SPACE BIOLOGY

The advent of the Shuttle Program has produced a new era for Space Biology that offers exceptional opportunities for research. NASA is offering RESEARCH ASSOCIATE AWARDS at the postdoctoral level for scientists to conduct Space Biology Research in a laboratory of your choice that can provide the necessary facilities and research environment. Projects may be in any space biology discipline. The awards vary from \$20,000 to \$24,000 based on experience and are made for a 12-month period with the possibility of renewal. Funding will begin July 1 to October 1, 1993. U.S. citizens and permanent resident aliens with Ph.D., M.D., D.V.M., D.M.D. or equivalent degrees are eligible to apply. **PROPOSALS ARE DUE FEBRUARY 15, 1993.** For information contact: Dr. Gerald Sonnenfeld, Department of Microbiology and Immunology, School of Medicine, University of Louisville, Louisville, KY 40292. Telephone: (502) 588-8317. FAX: (502) 588-7043 or Dr. Thora Halstead, Life Sciences Division, NASA Headquarters, Washington, DC 20546.

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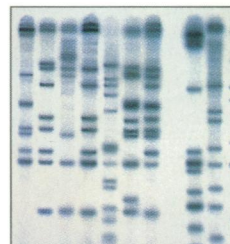
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