PERSONNEL PLACEMENT

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**POSITIONS OPEN**

**BIOLOGY ASSISTANT PROFESSOR:** The Department of Biological Sciences at Louisiana State University, Shreveport (LSUS) invites applications for a tenure-track faculty position in plant molecular biology. The position will be available in the fall of 1992 subject to the normal legislative funding process. Area of specialization is molecular biology, and candidates should have expertise in recombiant DNA and immunological techniques. We are particularly interested in candidates using molecular methodologies to solve problems in stress physiology. Ph.D. required. Postdoctoral experience preferred but not required. Responsibilities will include teaching introductory and advanced undergraduate biology courses, developing and managing a research program involving undergraduates and collaborating with other LSUS faculty. Send curriculum vitae, three letters of reference, and statement of teaching and research interest to: Dr. Dalton E. Gonzalez, Department of Biological Sciences, LSU - Shreveport, One University Place, Shreveport, LA 71115. An Affirmative Action/Equal Opportunity Employer.

**DEVELOPMENTAL BIOLOGY/VERTEBRATE PHYSIOLOGY, ASSISTANT PROFESSOR OF BIOLOGY:** The Biology Department at Moorhead State University invites applications for a tenure-track or fixed-term position at the vertebrate developmental biology/vertebro-pulmonary physiology level, beginning September 1992, pending funding. Teaching responsibilities will include undergraduate courses in vertebrate human physiology and other areas appropriate to the needs of the department. Successful candidates will be expected to maintain a research program which encourages participation by undergraduates. PhD candidates must be broadly trained in developmental biology/vertebrate physiology. A PhD is required for tenure-track appointment. Salary is dependent on qualifications and experience. Contact: Dr. R. H. Pence, Department of Biology, Moorhead State University, Moorhead, MN 55603. Telephone: 218-236-2330, for application materials and additional information. Screening of applicants will begin 15 May 1992 and continue until the position is filled. Moorhead State University is an Equal Opportunity/Affirmative Action Educator and Employer.

**INDIAN INSTITUTE OF SCIENCE BANGALORE-560 012, INDIA**

Requires ASSISTANT PROFESSORS in biological sciences in the area of: protein chemistry/engineering, molecular endocrinology/immunology, reproductive biology, genetics and developmental biology; biolom-branes/bioenergetics and molecular biology/genetic engineering and neurobiology.

Emoluments: Rs.6385 per month in the scale Rs.3700 to 5700.

Indian citizens with Ph.D. and 5 years of postdoctoral experience may send applications to: Professor G. Padmanaban, Chairman, Division of Biological Sciences, Indian Institute of Science, Bangalore-560 012, India, enclosing biodata and future research plans. Three referees may be requested to send recommendations letters directly to Professor G. Padmanaban.

**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 2 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 is competitive for the lab start-up package. The department is interested in strengthening research in neuropharmacology with molecular and structural approaches. Applicants should have a strong commitment to teaching and should have demonstrated research interest and potential in the field of molecular neuropharmacology. Send curriculum vitae and names of at least three references to: Dr. T. D. F. Hensin, Chairman, 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.

**POSITIONS OPEN**

**FACULTY POSITION NORTHWESTERN UNIVERSITY SCHOOL OF DENTISTRY**

Northwestern University is seeking applications for a full-time, tenure-track position at the ASSISTANT PROFESSOR level in its DIVISION OF DIAGNOSIS. Responsibilities include teaching at the predoctoral and postdoctoral levels, patient care, and research. Applicants must have dental degree and demonstrated ability to manage patient care in a clinical setting. It is desirable that the candidate have advanced training and education beyond the predoctoral level. Curriculum vitae (including a list of three references) should be directed to: Dr. Peter Robinson, Chair, Search Committee, Northwestern University, School of Dentistry, 240 East Huron, Chicago, IL 60611. Northwestern is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

**SENIOR STAFF (ASSISTANT PROFESSOR EQUIVALENT) OR POSTDOCTORAL FELLOWSHIP (depending on qualifications) available immediately to study regulatory mechanisms and functions of small molecular weight GTP binding proteins (RAS superfamily). Particular interest is directed for these proteins in protein secretion in mammals and yeast. Experience in nucleotide binding or protein secretion fields preferred. Send curriculum vitae and names of three references to: Richard A. Kahn, Ph.D., Laboratory of Biological Chemistry, National Cancer Institute, NIH, Building 37, Room 3D-02, 9000 Rockville Pike, Bethesda, MD 20892. An Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITIONS IMMUNOLOGY/MOLECULAR BIOLOGY**

The Department of Microbiology of the Chicago College of Osteopathic Medicine seeks applicants for two positions at the level of ASSISTANT PROFESSOR. One position is available for a cellular immunologist and a second position is available for a molecular biologist. Applicants must have a Ph.D. or equivalent, a minimum of 2 years of postdoctoral training, and a commitment to excellence in both teaching and establishment of a rigorous research program capable of attracting extramural funding. Ability to teach medical microbiology is desirable. Preference will be given to those applicants with research specialties in T-cell immunology or eukaryotic molecular biology. Send curriculum vitae and at least three references, and a statement specifying teaching interests and research plans to: J. R. Burdick, Ph.D., Chairman, Department of Microbiology, Chicago College of Osteopathic Medicine, 555 31st Street, Downers Grove, IL 60515. Affirmative Action/Equal Opportunity Employer.

**BIOCHEMIST/ASSISTANT PROFESSOR**

A full-time, tenure-track position is available for a basic scientist with an earned doctorate in biochemistry and with courses in physiology, pharmacology, or microbiology to participate in the teaching of biochemistry and second discipline to freshman medical students. Development of a research program is expected. One to two years of postdoctoral experience is desirable. Applicants should send curriculum vitae and names/addresses/phone numbers of three references before 30 May 1992 to: B. E. H. N. H. Committee, Fort Wayne Center For Medical Education, Indiana University School of Medicine, 2101 Coliseum Boulevard East, Fort Wayne, IN 46805. Indiana University is an Affirmative Action/Equal Opportunity Educator, Employer, and Contractor, M/F.

**ASSISTANT PROFESSOR, CELLULAR/MOLECULAR BIOLOGY**

A Ph.D. with demonstrated expertise and previous research in cellular/molecular biology with a special interest in growth, nutrition, or reproductive physiology is required. A background in diabetes, postdoctoral experience, and demonstrated grantsmanship abilities are preferred. Screening begins 15 May 1992. For complete position announcement and application procedures, write to: Dr. Dale Redner, Search Committee, Animal and Range Sciences Department, North Dakota State University, Fargo, ND 58105. Affirmative Action/Equal Opportunity Employer.
Listed below are a few of the excellent opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Bacteriology and Immunology**
*Bascom Anthony, MD*

Bacterial and allergic diseases in humans are studied to obtain data on the safety, purity, potency, and effectiveness of bacterial and allergic biological products. Research is also being conducted on the interaction of bacteria with cultured cells and on new techniques to study in vitro functions of immunized cells. Fellows will also have the opportunity to participate in regulatory activities, such as the review of clinical trials. Division of Bacterial Products (OE-10), CBER/FDA, MO47, Building 29, Room 104, 8800 Rockville Pike, Bethesda, MD 20892.

**Cell Biology/Biochemistry**
*James T. Russell, PhD*

Cytoplasmic calcium transients in neuronal and glial cells are being studied using fluorescence microscopy and video image processing. In addition, the molecular mechanisms of neurotransmitter release are being examined by characterization of the proteins of synaptic vesicles and plasma membranes. Background in intracellular calcium signalling mechanisms and/or neuronal secretory mechanisms is preferred and experience in biochemistry and cell biological methods is required. Laboratory of Developmental Neurobiology (OE-10), NICHD, Building 36, Room B316.

**Molecular Biology of Drug Resistance**
*Michael Gottesman, MD/Ira Pastan, MD*

The molecular biology of drug resistance in human cancers and the mechanism of drug transport by the multidrug transport protein are being studied. Biochemical or molecular biology experience required. Laboratory of Molecular Biology (OE-10), NCI, Building 37, Room 4E16.

**Neurobiology**
*Brent Stanfield, PhD*

Neuroanatomical techniques, tissue culture, and electron microscopy are being used to study anatomical aspects of the development of mammalian neocortex. At least two years of postdoctoral experience are required for this position. Animal Center (OE-10), NIMH, PO Box 289, Poolesville, MD 20837.

**Signal Transduction**
*Robert J. Hohman, PhD*

IgE receptor-mediated signal transduction in mast cells is being examined by two complementary approaches: (1) the activation of phospholipase C in response to receptor aggregation; and (2) the inhibition of activation of mast cells by cyclosporin A and FK 506. Experience in enzymology, molecular biology, immunology, or cell biology is desirable. Laboratory of Clinical Investigation (OE-10), NIAID, Building 10, Room 11C215.

**Virology**
*Albert Z. Kapikian, MD*

The pathogenesis of human and porcine rotaviruses is being studied in animal models and rotavirus strains of human and animal origin are being characterized using virologic and genetic techniques. Cold-adaptation, genetic reassortment and strain characterization studies are being used to develop new vaccine candidates for eventual human use. Laboratory of Infectious Diseases (OE-10), NIAID, Building 7, Room 103.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221). The settings for modem access are: "7,Even," when connected to NIH, type in "vt100" at the connect message, "F5E" at initial, and "AJL" at account. Those interested in receiving a catalog featuring descriptions of NIH research laboratories and other postdoctoral opportunities may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a PhD, MD, or equivalent degree and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
The Environmental Analyses Section in Oak Ridge National Laboratory's (ORNL) Environmental Sciences Division and the Integrated Analysis and Assessment Section in the Energy Division are seeking new staff with experience and interest in interdisciplinary analysis and assessment of environmental problems related to the major federal environmental laws - the Resource Conservation and Recovery Act, Comprehensive Environmental Response, Compensation, and Liability Act, Clean Air Act, Clean Water Act, Safe Drinking Water Act; Toxic Substances Control Act; and the National Environmental Policy Act (NEPA). Activities include regulatory tracking, review and analysis; training in environmental laws and regulations; environmental compliance auditing of major federal facilities; preparation of environmental documents; and staff support to federal agency offices in Washington. Responsibilities include opportunities for domestic and international travel. Excellent written and verbal skills are a must.

The Environmental Compliance Group is seeking environmental scientists or environmental engineers holding master's or doctoral degrees. Familiarity with federal and/or state environmental regulatory programs in hazardous waste, air pollution control, water pollution control, or Superfund remedial action is required. This background may be derived from appropriate academic course work (e.g., environmental law, environmental control technologies, etc.) and/or from experience in environmental compliance auditing, permitting or with a federal or state regulatory agency. Submit complete resumes to the attention of Fred Baes, MS 6036.

ORNL is managed by Martin Marietta Energy Systems, Inc. for the U.S. Department of Energy and offers competitive salaries, an excellent comprehensive benefits package, and an equal opportunity employer. If you're an environmental professional with substantial regulatory, ecological or other relevant expertise and a dedication to environmental assessment and to achieving environmental compliance, consider joining us in Oak Ridge. Send your resume, noting appropriate individual's attention, to ORNL, Dept. SC, P.O. Box 2008, Oak Ridge, TN 37831.
POsITIONS OPEN

FACULTY POSITIONS IN PHARMACOLOGY/TOXICOLOGY
MEHARRY MEDICAL COLLEGE

Applications are invited for two full-time faculty positions at the ASSISTANT PROFESSOR level. Candidates must possess doctoral degree and postdoctoral experience. Opportunities are not limited to, neuroscience/neuropsychology/neurotoxicology, cardiovascular and biochemical pharmacology. Successful candidates are expected to develop funded research programs and to teach medical, dental and graduate students. Opportunities are present for collaborative research. Please send curriculum vitae, a brief description of research plans, and the names of three professional references to: Dolores C. Shockley, Ph.D., Chair, Faculty Search Committee, Department of Pharmacology, Meharry Medical College, 1005 D. B. Todd, Jr., Boulevard, Nashville, TN 37208. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN NEUROBIOLOGY
DEPARTMENT OF BIOLOGY
BOSTON UNIVERSITY

Applications are sought for tenure-track faculty position at the ASSISTANT PROFESSOR level in the area of neurobiology (anticipated starting date between September 1992 and September 1993). More senior candidates with established research programs will also be considered. Applicants should have potential for maintaining an active, externally funded research program and be qualified to teach an upper division course in neurophysiology. Preference will be given to candidates with broad training in biology who best complement current departmental interests in neurobiology which include developmental neurobiology, neuroendocrinology, neurotoxicology and neuroanatomy. Submit curriculum vitae, reprints, statement of current and proposed research interests, and at least three letters of recommendation to: Dr. Ian P. Callard, Neurobiology Search, Department of Biology, Boston University, 5 Cambridge Street, Boston, MA 02215.

The policies of Boston University provide for Equal Opportunity and Affirmative Action in employment and admission to all programs of the university.

ASSISTANT PROFESSOR OF MEDICINE, Division of Molecular Medicine, Department of Medicine. Applicants must have M.D. and Ph.D. with experience in molecular biology and interest in atherosclerosis research. Send resume to: Alan Tall, M.D., Division of Molecular Medicine, Department of Medicine, Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032.

MEDICAL ONCOLOGIST—YALE UNIVERSITY
SCHOOL OF MEDICINE
SECTION OF MEDICAL ONCOLOGY

ASSISTANT PROFESSOR level. Primary appointment will be in internal medicine with a joint appointment to the Yale Comprehensive Cancer Center. Outstanding candidate with an M.D. or M.D., Ph.D. degree committed to clinical research with a proven interest in developing and coordinating a Chemoprevention Unit. The faculty member will have both patient care and teaching responsibilities. Applicants should submit curriculum vitae by 31 May 1992 to: William N. Hahn, M.D., Ph.D., Chief of Medical Oncology, Yale University School of Medicine, P.O. Box 3333, 333 Cedar Street, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

VISITING ASSISTANT/ASSOCIATE PROFESSOR OF BIOCHEMISTRY (RENEWABLE). The University of the Virgin Islands invites applications for this assignment which will include biochemistry, cell biology, introductory chemistry for nursing students and possibly other courses depending on background. Interest in undergraduate research required. Emphasis is placed on quality instruction. Salary range: $34,679 to $50,708. Application deadline is 15 May 1992. Late applications accepted until candidate is selected. Send letter of application, resume, official transcripts and three letters of recommendation to: Dr. Denis F. Paul, Vice President for Academic Affairs, University of the Virgin Islands, Charlotte Amalie, St. Thomas, VI 00802. Equal Opportunity/Affirmative Action Employer.

GLAXO INSTITUTE FOR MOLECULAR BIOLOGY

Research at the Glaxo Institute in Geneva is focused on discovering the molecular mechanisms of diseases of the CNS, allergies and inflammatory conditions. We have an outstanding opportunity for a

POSTDOCTORAL FELLOWSHIP IN ELECTROPHYSIOLOGY to study the function of recombinant receptors and other proteins expressed in primary neurons and cell lines

The successful applicant will join an interdisciplinary team of neurobiologists who are studying neuronal function at the cellular and molecular levels. Candidates should have experience in whole cell voltage clamp or patch clamp techniques, and have an interest in learning new techniques for exogenous gene expression in neurons.

The Institute provides a dynamic international research environment and actively encourages collaborative projects with academic groups as well as the publication and presentation of results at scientific meetings. The Glaxo Institute is part of the Glaxo group, one of the world's most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, situated in a very attractive part of Europe, has many advantages as a place to live.

If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, Glaxo Institute for Molecular Biology, 14 chemin des Aulx, 1228 Plan-les-Ouates, Geneva, Switzerland.
The University of Pennsylvania, Department of Dermatology, is expanding its investigative efforts. Applications are being accepted for Ph.D.—CELL BIOLOGY with an interest in plasminogen activator biology. Expertise with animal models of cutaneous inflammation, in situ hybridization, and other areas of techniques essential. ASSISTANT RESEARCH PROFESSOR LEVELS, salary negotiable. Ph.D.—T-CELL IMMUNOLOGY—WIT an interest in cutaneous T-cell lymphoma. Special skills include cytokine biology, T-cell receptor cloning, and modulation of T-cell response by immunoregulators. ASSISTANT RESEARCH PROFESSOR—LEVELS, salary negotiable. Reply to: Gerald S. Lazarus, M.D., Professor and Chairman, University of Pennsylvania, Department of Dermatology, 211 City Hospital, 423 Cherry Street, Philadelphia, PA 19104—6142. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

Applications are invited for positions of assistant professor, associate professor, and professor in the Department of Pharmacology, Medical School. Successful candidates are expected to establish an outstanding independent research program, in addition to teaching, in the area of molecular pharmacology. Requirements include a Ph.D. in biochemistry, cell biology, molecular biology, pharmacology or related field, or an M.D. and 2 years of postdoctoral research experience. Candidates with a strong research background and experience using recombinant DNA technology for studying pharmacological problems and/or molecular biological problems are preferred. Applicants must have demonstrated involvement in quality research published in peer-reviewed journals.

Appointment as associate professor (tenured) or full professor (tenured) may be considered for applicants with professional distinction in published research and who have demonstrated effectiveness in teaching and advising and evidence of consistently attracting extramural funding. The University of Minnesota Medical School is an Equal Opportunity/Affirmative Action Employer and Affirmative Action/Race/Ethnicity/Religious Preference/Disability Employer. Applicants must meet minimum qualifications established by the University of Minnesota. The above described areas of research and qualifications are also preferred for these candidates.

Applicants should indicate level of position they are applying for and send curriculum vitae, significant reprints, a statement of research plans, and three names of people for reference purposes to: Dr. J. W. Miller, Professor and Chairperson of Search Committee, Department of Pharmacology, University of Minnesota, 358 Delaware Street, S.E., Minneapolis, MN 55455. Deadline for receipt of applications is 15 May 1992.

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

The Department of Physiology, University of Michigan, is seeking a faculty member at the assistant professor level. Candidates should have a Ph.D., D.O., M.D., D.V.M. or equivalent, or 2 to 3 years postdoctoral experience in cellular and/or molecular cardiovascular research. Duties include teaching in the department's professional, graduate and/or undergraduate programs and maintaining an active, independent research program of high quality. Applications should send curriculum vitae and three letters of reference by 30 June 1992 to: Dr. Peter S. Lazarus, Search Committee Chairperson, Department of Physiology, University of Michigan, East Lansing, MI 48824. MSU is an Equal Opportunity/Affirmative Action Institution.

Assistant/Associate Professor, Biochemistry

The Department of Biochemistry at the Philadelphia College of Osteopathic Medicine is recruiting a faculty member at the assistant/associate professor level. Applicants should have a Ph.D. or M.D. and postdoctoral research experience. Research interests include teaching medical students and designing undergraduate curricula. The department is especially interested in individuals with expertise in the biological chemistry of drug metabolism. The University of Alaska Fairbanks, Fairbanks, AK 99775; telephone: 907—474—7963. Applications due: 1 June 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 will be reviewed by the University of Alaska. Applications may be subject to disclosure.

The University of Alaska is an Equal Opportunity/Affirmative Action Employer and Educational Institution.

Applications are invited for ASSISTANT/ASSOCIATE PROFESSOR positions in the Department of Pharmacological Sciences, School of Pharmacy, University of Southern California. Candidates are invited with research interests in approaches in cell biology, molecular biology, or immunology related to drug targeting are invited to apply. Applicants are expected to possess a Ph.D. degree in the biological, chemical, or pharmaceutical sciences. Participation in team teaching at both the undergraduate and graduate levels is required. Please send curriculum vitae, selected reprints, a short statement of future research plan, and the names and addresses of three references by 15 May 1992 to: Dr. Robert L. Lee, Professor, University of Southern California School of Pharmacy, Pharmaceutical Sciences Center, 1985 Zonal Avenue, Los Angeles, CA 90033—1086. Telephone: 213—342—2169. Equal Opportunity Employer M/F/H.

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RESEARCH POSITIONS
DRUG METABOLISM/BIOANALYSIS

The Upjohn Company, a recognized leader in biomedical research and the discovery and development of new pharmaceuticals, is seeking several highly motivated and innovative individuals for positions in our Drug Metabolism Research Group. Industry or academic knowledge and background in drug metabolism or bioanalysis using radioactively or stable isotope tracer, enzymatic, immunological, chromatographic, mass spectrometric and other physical-chemical and biomedical methods are necessary. Excellent problem solving and interpersonal skills, oral and written skills, and the ability to conduct collaborative or independent research are also highly desirable.

RESEARCH SCIENTISTS. A Ph.D. degree in biochemistry, organic chemistry, pharmaceutical science or related fields is required. The selected incumbents will function as experts in drug disposition and/or bioanalysis and as members of interdisciplinary, new product project teams. These scientists derive qualitative and quantitative information of the absorption, distribution, metabolism and elimination of drugs and conduct applied and basic research in disciplines such as drug metabolism, biopharmaceutics, pharmacokinetics, pharmacology and toxicology. Project management includes the elucidation of drug biotransformation mechanisms in vivo and in vitro and to develop/validate bioanalytical methods for drugs and metabolites in biological samples.

RESEARCH ASSOCIATES. A B.S. or M.S. degree in one of the above disciplines is needed to assist a scientist in the conduct of in vitro and in vivo studies and to develop analytical methods for the separation, identification and quantification of drugs and metabolites. Pharmacokinetic and metabolism information of drugs and new compounds are derived, with participation in drug discovery and conceptual research projects. Senior associates may assume independent assignments.

Upjohn offers a very competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern laboratories, located in downtown Kalamazoo, Michigan. Our region provides immediate access to abundant cultural and recreational pursuits and offers reasonable housing and living costs. Qualified applicants are invited to submit their CV's, cover letters and relevant materials to: THE UPJOHN COMPANY, CORPORATE RECRUITING, 7000 PORTAGE ROAD, KALAMAZOO, MI 49001-0199. Please refer to recruiting position code 910234-112 in your cover letter. An Equal Opportunity Employer M/F.

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The Upjohn Company

THE INTERNATIONAL CENTRE OF
INSECT PHYSIOLOGY AND ECOLOGY
P. O. BOX 30772, NAIROBI, KENYA

POSITION ANNOUNCEMENT

VACANCY FOR THE POSITION OF DEPUTY DIRECTOR AT THE ICIPE
REF: ADM/92/02

The International Centre of Insect Physiology and Ecology (ICIPE) is an international institution headquartered in Nairobi, Kenya. It undertakes advanced research in insect science and pest management, and offers high-level training to insect scientists and technologists from Africa and other developing countries. It has at any time 44-50 senior scientists and research managers; 24-36 Postdoctoral Research Fellows; 36-45 Ph.D. students; and is funded by a consortium of donors comprising United Nations and international bodies, governmental aid agencies, and private foundations.

Applications are invited from highly qualified scientists and widely experienced research managers for the senior research management position of DEPUTY DIRECTOR at the ICIPE.

The Deputy Director reports directly to the Director of the Centre and, in his absence, acts for him. He has, in addition, overall responsibility for the Research Division of the ICIPE, which includes the research programmes, research support units, the Institutional Building and Interactive Research Unit (IBIRU), and technical support services (including workshops); and maintains close liaison with supportive Divisions within the ICIPE (on Administration and Information and Finance).

The successful candidate will be a person with a solid research background in insect science/pest and vector management/plant protection/animal health; he will have had considerable experience in science policy matters and research management; and he will be a successful independent able to work effectively in an African environment. A more detailed job description will be sent to qualified candidates.

The remuneration package will be competitive, and will reflect the vital importance of this position within the ICIPE. Applications, giving detailed curriculum vitae and addresses of three referees should be addressed (in confidence) to:

The Director
The International Centre of Insect Physiology and Ecology (ICIPE)
P.O. Box 30772, NAIROBI, Kenya

Closing date: 11 May 1992.
Targeted Genetics Corporation, a Seattle-based independent company evolved as a spin-out of Immunex Corporation, is currently recruiting scientists at all levels of work. The company has expertise in gene transfer into eukaryotic cells, in gene regulation, in adoptive immunotherapy, and in cytokine biology, and is committed to the development of gene therapy techniques.

Laboratory programs are being developed in:

- **Gene expression** - including methods to direct constitutive and regulated gene expression in transduced primary cells;

- **Gene transfer** - including the development of retroviral or alternative vectors for efficient introduction of genes into selected target cells in vitro and in vivo;

- **Vector production** - including the development of technologies for improving the yield, safety and purity of gene transfer vectors; and producing retroviral and other vectors for GMP use in clinical trials;

- **Immunology** - including mouse and human T cell biology, in vivo animal models for adoptive transfer of T cell clones, and the introduction of regulated genes into T cells that modify cell function.

For consideration, please submit C.V., names of three references and a list of publications to:

**Targeted Genetics Corporation**
1201 Western Avenue
Seattle, Washington 98101
Fax: (206) 587-0606

Targeted Genetics Corporation
Equal Opportunity Employer
Innovative research at Sandoz has been enhancing medicine around the world for over a century. Pioneering drugs have extended and improved the quality of life for countless individuals and revolutionized basic scientific concepts within the transplantation and mental health fields.

As a result of a major expansion in basic research which will continue over the next decade, the Sandoz Research Institute seeks highly motivated and creative scientists. Successful applicants will become part of multidisciplinary teams of scientists in our modern, newly opened research facilities and use state-of-the-art technology to develop novel therapeutic agents.

**MASS SPECTROMETRIST**

Recent Ph.D. in Mass Spectrometry (MS) and, preferably, with one to two years of postdoctoral or industrial experience in biological mass spectrometry. This individual, using mass spectrometry and hyphenated mass spectrometry technologies, will collaborate with biologists and chemists on the structural analytical demands of drug discovery research. The successful candidate will maintain, operate and troubleshoot complex MS systems, including tandem MS and high resolution magnetic sector MS systems, and organize and interpret results for reports and publications. In-depth hands-on experience with ion spray/electrospray MS, LC-MS and tandem MS methodologies, familiarity with MS data systems, computer interfacing and networking and the ability to design and incorporate hardware and software changes to optimize experimental needs is highly desirable. A working knowledge of different separation techniques and the ability to coordinate diverse research activities is required. Good oral and written communication skills are essential. **Position #2145.**

**MANAGER, DRUG DELIVERY SYSTEMS**

Scientist to head a research group in the area of targetable drug delivery systems. Candidates should have 5-10 years of research experience with a Ph.D. in Chemistry, Pharmaceutical Sciences, Biochemistry, Cell Biology or a related discipline. Experience in research identifying and describing the function of cell surface receptors or in research on the mechanism of cellular uptake of macromolecules by receptor-mediated pinocytosis is preferred. The ability to work in a multifunctional and interdisciplinary environment is essential. **Position #1440.**

**EXPERIMENTAL TOXICOLOGIST**

Experienced toxicologist to work with minimal supervision in developing new methods and defining new projects. The successful candidate should have a Ph.D. in Pharmacology, Toxicology or a Biological Science and at least two years of experience in the pharmaceutical or chemical industry, or relevant experience in the field of toxicology involving in vitro or in vivo studies with drugs or chemical agents. Specific expertise in hepatocyte culture for testing hepatotoxicity and performing mechanistic studies on drug-induced cell injuries is required. The ability to develop and recommend procedures for mechanistic studies in understanding the nature of toxicity induced by drugs or drug candidates is essential. **Position #2065.**

Being part of the research team at Sandoz has many advantages. Our salaries and benefits programs are designed to attract top candidates and provide them with the resources to produce their best. Comprehensive health, dental, and savings plans as well as fitness and athletic facilities are all provided at our attractive location in northwest New Jersey, which also allows for outstanding academic, cultural and outdoor pursuits. For consideration, please specify the number of the position you are responding to and forward your resume, in confidence, to:

Human Resources Department, 403-1
SANDOZ RESEARCH INSTITUTE
SANDOZ PHARMACEUTICALS CORP
East Hanover, New Jersey 07936

An Equal Opportunity Employer M/F/H/V

**POSTDOCTORAL RESEARCH ASSOCIATES**

**Signal Transduction**

Ph.D. in Biochemistry, Pharmacology or a related discipline with a background and interest in signal transduction related to membrane receptors. The successful candidate will join a multidisciplinary group dedicated to the discovery of novel approaches to the treatment of diabetes and will perform fundamental research on aspects of hormone/drug interactions and signal transduction. **Position #325.**

**Biochemical NMR Spectroscopist**

Ph.D. NMR Spectroscopist or Biochemist with expertise in the area of multi-dimensional NMR spectroscopy is needed to investigate the structural features of protein-ligand interactions. The successful candidate must be knowledgeable in structural determination methods and have proven biochemistry experience. Our NMR laboratories are well equipped with state-of-the-art instruments and work stations. **Position #327.**

**Molecular Biology**

Ph.D. in Molecular Biology to work on projects related to peptide display libraries, cell-signalling receptors and adhesion molecules. The successful candidate will clone and identify novel cell surface receptors and characterize their role in signal transduction or cell-cell interaction as they pertain to immunoregulation and inflammation. Applicants must have demonstrated expertise in molecular biology. Skills in tissue culture and computer analysis of DNA/proteins are desirable. **Position #367.**

Our postdoctoral openings are one year, industry based positions and are extendible up to two years by mutual agreement.
EMORY UNIVERSITY SCHOOL OF MEDICINE
Associate Dean for Research

Emory University School of Medicine is developing an important new position with responsibility to provide overall administrative leadership for research efforts within the School. This school has one of the fastest-growing research programs in the country and recognizes the critical need to identify an individual who can provide senior leadership in this area. The Associate Dean reports directly to the Dean. Primary responsibilities will require consultation with department chairs and faculty in developing institutional priorities for scientific investigation, fostering interaction among departments and encouraging program projects and center grant applications. The individual will counsel faculty regarding research opportunities, consult with applicants and other grant and contract issues. Qualified candidates should hold the M.D., or Ph.D. degree and have distinguished credentials as an investigator.

Applications and inquiries should include a current curriculum vitae and be directed to Jeffrey L. Houp, M.D., Dean, Emory University School of Medicine, Woodruff Health Sciences Center Administration Building, 1440 Clifton Road, N.E., Atlanta, Georgia 30322. The search will remain open until the position is filled.

EMORY UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

POSITIONS OPEN

ASSOCIATE DEAN FOR BASIC SCIENCE AND RESEARCH

The Texas College of Osteopathic Medicine (TCOM) invites nominations and applications for the position of associate dean for basic sciences and research. TCOM is a state-supported institution affiliated with the University of North Texas. Our research grants and contracts were in excess of $4 million for 1990-1991. We now seek an eminent scientist/teacher who will lead the college to a higher level of national and international prominence in its programs. The associate dean for basic sciences and research is responsible for all research programs in the college and serves as the liaison between the TCOM and the Basic Sciences Division. Applications should include curriculum vitae and the names of three references. To be considered, applications should be sent before 1 July 1992 to: Michael Emmett-Oglesby, Ph.D., Search Committee Chairman, Department of Pharmacology, Texas College of Osteopathic Medicine, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699. TCOM is an Equal Opportunity/Affirmative Action Employer and Educator.

DIRECTOR OF SYNTHESIS SEQUENCING CORE FACILITY

MOLECULAR BIOLOGY DEPARTMENT

PRINCETON UNIVERSITY

Director of molecular biology core facility with responsibility for research, technical, and administrative activities of facility. Collaborating with faculty to improve and expand the capabilities in protein microsequencing and protein mapping. Manages operations which include automated protein microsequencing, oligonucleotide and polypeptide synthesis, protein purification, and peptides synthesis supervisory, professional and technical staff. Must have extensive experience with the following equipment: protein microsequencers, protein synthesizers, amino acid analyzers, peptide synthesizers, DNA synthesizers, and preparative and analytical HPLCs. Appointment will be made to the Professional Technical Staff. Rank and salary will be commensurate with experience and qualifications.

Qualifications: Ph.D. degree and relevant experience in the areas of protein purification and protein chemistry.

Applicant should send curriculum vitae and the names of at least three references to: Director—Synthesis/Sequencing Department of Molecular Biology Princeton University Princeton, NJ 08544

Princeton University is an Equal Opportunity/Affirmative Action Employer.

The National Wetlands Research Center (NWRC), U.S. Fish and Wildlife Service, has continuing opportunities for a PROGRAM MANAGER research position in oil pollution and habitat contamination research. NWRC is interested in recruiting individuals with training and experience in environmental research associated with oil spills and other contaminants. Oil Pollution Research Program includes effects of oil pollution, restoration of habitats and populations affected by oil spills, clean-up technologies, oil spills planning, and oil spill response. This is an emerging research area involving many federal and state agencies and the private sector. Research on contaminants includes the effects and cumulative impacts of chemical spills and discharges, urban runoff, and agricultural runoff.

Research at the center crosses many disciplines and addresses priority issues affecting Fish and Wildlife and their habitat. Candidates should have experience in program development, administration and management of research as well as expertise and experience as scientists. The successful candidate will manage and guide some existing research dealing with toxic effects on habitat and assist in the development of new programs.

NWRC is moving into a new 63,000-square-foot state-of-the-art research facility at the former NRC campus of the University of Southwestern Louisiana, in Lafayette, Louisiana, in 1992.

The starting salary range is $46,210 to $52,370. For more information on this position, to apply for this position, contact: Dr. Robert E. Stewart, Jr., Director, or Barbara Carney, Administrative Officer, NWRC, 1010 Louisiana Boulevard, Slidell, LA 70460; telephone: 504-646-7564.

An Equal Opportunity Employer.

PH.D. Biochemist

The Biochemistry Department of Merck Research Laboratories is seeking a scientist interested in studying therapeutically important enzymes. Candidates should have a Ph.D. in Biochemistry or related field with a strong interest in enzymology and enzyme inhibitors. Experience with molecular biology is desirable.

Merck Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. Interested applicants should submit a curriculum vitae, including 3 references, to Christine L. Cantone, Associate Manager, Merck Research Laboratories, R90A-3, AD9115, P.O. Box 20000, Rahway, NJ 07085-0000. EEO/AA/VE Employer.

MERCK Research Laboratories

EMORY UNIVERSITY SCHOOL OF MEDICINE
Associate Dean for Research

Emory University School of Medicine is developing an important new position with responsibility to provide overall administrative leadership for research efforts within the School. This school has one of the fastest-growing research programs in the country and recognizes the critical need to identify an individual who can provide senior leadership in this area. The Associate Dean reports directly to the Dean. Primary responsibilities will require consultation with department chairs and faculty in developing institutional priorities for scientific investigation, fostering interaction among departments and encouraging program projects and center grant applications. The individual will counsel faculty regarding research opportunities, consult with applicants and other grant and contract issues. Qualified candidates should hold the M.D., or Ph.D. degree and have distinguished credentials as an investigator.

Applications and inquiries should include a current curriculum vitae and be directed to Jeffrey L. Houp, M.D., Dean, Emory University School of Medicine, Woodruff Health Sciences Center Administration Building, 1440 Clifton Road, N.E., Atlanta, Georgia 30322. The search will remain open until the position is filled.

EMORY UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

POSITIONS OPEN

CHAIR, DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE. University of Wisconsin Medical School—Madison, Wisconsin. Searching for a chairperson for the Department of Pathology and Laboratory Medicine, the successor to Professor Burton Goldberg who has announced his plans to retire later this year. We seek a person able to give outstanding academic and administrative leadership to all aspects of the department's activities. Send reply with curriculum vitae to: Professor Paul Deluca, Chair of the Search Committee, c/o Margaret Martin, 1205 Medical Sciences Center, 1300 University Avenue, Madison, WI 53706. To ensure full consideration, applications should arrive by 29 May 1992. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. The University of Wisconsin State System is required to release, within 2 days of a request after the deadline for receipt of nominations and applications, a combined list of all nominees and applicants without differentiation.

GENE KNOCKOUT CORE

Six investigators at the University of Texas Southwesten Medical Center who share a program project seek doctoral level individuals to supervise a Homologous Recombination Core Facility (which will include one or two technicians). We seek individuals with experience in transgenics, cell biology, molecular biology, or homologous recombination itself. The University of Texas is an Equal Opportunity/Affirmative Action Employer. Please submit your curriculum vitae with a cover letter and references to:

Dr. J. Donald Capra
The University of Texas Southwesten Medical Center
Department of Microbiology
SS35 Harry Hines Boulevard
Dallas, TX 75338-9048

SUPERVISOR OF SYNTHESIS SEQUENCING CORE FACILITY

MOLECULAR BIOLOGY DEPARTMENT

PRINCETON UNIVERSITY

Supervises the daily operations of a molecular biology core service facility that provides automated oligonucleotide synthesis, automated polypeptide synthesis, protein microsequencing and peptide mapping. Must have extensive experience with automated synthesis and sequencing equipment, both in normal operations and in maintenance and repair. Equipment includes protein microsequencers, protein synthesizers, amino acid analyzers, peptide synthesizers, DNA synthesizers, and both preparative and analytical HPLCs.

Administrative duties include training and supervision of several technicians, organization of schedules, billing, and other activities within the facility. Must be able to provide technical assistance and advice in the areas of peptide mapping, protein microsequencing and protein purification to improving basic research projects. Appointments will be made to the professional technical staff. Rank and salary will be commensurate with education and experience.

Qualifications: B.S. degree and at least 5 years of experience managing a similar service facility.

Applicants should send curriculum vitae and the names of at least three references to:

Supervisor—Synthesis/Sequencing Department of Molecular Biology Princeton University Princeton, NJ 08540

Princeton University is an Equal Opportunity/Affirmative Action Employer.

University of South Florida (USF), Department of Internal Medicine/Division of Endocrinology and Metabolism, seeks M.S./Ph.D. with experience in molecular biology and work in area of insulin action, phosphoshing mechanism, and protein kinase C activation. Should have experience with protein purification, Western blotting, Northern/Southern blotting, DNA library analysis, cloning, PCR, DNA sequencing, site-directed mutagenesis, and transfecion of eukaryotic cells. Salary commensurate with training and experience. Position available immediately. Send CV and statement of research interests to: Dr. Robert V. Fares, Research Service, J. A. Haley Veterans' Hospital, 13000 Bruce Downs Boulevard, Tampa, FL 33612 no later than 30 April 1992. USF is an Equal Opportunity/Affirmative Action Employer.
The University of Utah School of Medicine and Salt Lake VAMC are seeking individuals to join the UNIVERSITY/VA PROGRAM IN GERIATRICS. The rank and responsibilities for these positions will depend upon qualifications. Candidates should have a M.D. or Ph.D., and interest in one or more of the following: clinical or basic research on the aging process, aging and geriatric medicine, or geriatric computer-based strategies for real-time assistance in the delivery of health care. Interviews will be held in the Division of Human Development and Aging and in the Salt Lake Geriatric Research, Education and Clinical Center. Send curriculum vitae and bibliography to: Gerald Rothstein, M.D., Division of Human Development and Aging, University of Utah School of Medicine, Salt Lake City, UT 84132. Closing 8 May 1992 or until a suitable candidate is identified. The University of Utah and VA are Equal Opportunity/Affirmative Action Employers.

EARTH OBSERVING SYSTEM (EOS) SENIOR PROJECT SCIENTIST

The NASA/Goddard Space Flight Center, located in Greenbelt, MD is seeking candidates for the position of EOS Senior Project Scientist. The incumbent will provide the primary and day-to-day interface between the Earth Science community and the EOS Project in defining and representing scientific requirements and providing related scientific insight and guidance to the EOS Project. The incumbent will work with the EOS Program Scientist and other Earth Science Program personnel at NASA Headquarters to ensure that scientific and related programmatic requirements are adequately implemented by the EOS project. Along with the Program Scientist, the incumbent will co-chair the EOS Investigators Working Group (IWG) and related panels and subpanels. The incumbent will guide and lead the efforts of EOS Project Scientists associated with the various EOS payloads and the EOS Data and Information Systems (EOSDIS).

An applicant should be an internationally recognized research scientist in an Earth science discipline or interdisciplinary Earth science, with substantial experience in developing and implementing research programs. There should be documented skill or knowledge in numerical modeling and data analysis using remotely sensed data from spaceborne, earth oriented observing systems and related data processing, archiving, and distribution systems. The salary associated with the position ($64,233–$104,000) will depend upon the selected applicant’s background, qualifications, and experience. In applying, the following is required: a resume including a list of scientific and technical publications and an Application for Federal Employment (SF-171). This material should be sent by May 8, 1992, to: NASA/Goddard Space Flight Center, Code 115G, Greenbelt, MD 20771. Inquiries should be directed to Ms. Dianne Hagerty at (301) 286-8319. Equal Opportunity Employer. U.S. Citizenship is required.
Staff Scientist

Inflammation

ALZA is a leader in drug delivery systems focusing on the development, manufacture and marketing of a wide range of proprietary pharmaceutical products.

As a specialist in inflammation research, you will develop appropriate in vivo and in vitro models to study the mechanisms of inflammation in the skin. Your research will focus on mechanisms of local side effects, particularly irritation, related to the transdermal delivery of drugs, including peptides. You will develop strategies to prevent inflammation secondary to this mode of delivery.

Ideal candidates will possess a PhD in Cell Biology, Physiology, Immunology or related discipline and up to 2 years of postdoctoral cell culture research experience. Solid knowledge of the biochemistry of inflammation, skin physiology and mechanisms of toxicity is preferred.

For immediate consideration, please send your resume to ALZA, Human Resources, Box 950 Page Mill Road, P.O. Box 10950, Palo Alto, CA 94303-0950 or call (415) 494-5319. We are pleased to be an equal opportunity employer.

POST-DOCTORAL POSITION

TRUDEAU INSTITUTE, INC.

A Postdoctoral Position in immunology is available to study the immune response to Cryptococcus neoformans. Candidates with a background in cellular or molecular immunology who are interested in using their training to analyze in vivo models of opportunistic infections should apply. A competitive salary and fringe benefits are offered and on-campus housing will be made available. Future staff appointment is possible, depending on performance.

The Trudeau Institute is a not-for-profit pure research institute that specializes in studying the immunology of host defense mechanisms. Current staff interests include cancer and transplantation immunology, immunity against infectious diseases, cytokine function, and immunoregulation. The institute is located on the shore of Saranac Lake, 8 miles from Lake Placid, New York. Send curriculum vitae and the names of three references to:

Dr. Joseph O. Hill
Trudeau Institute, Inc.
P.O. Box 59
Saranac Lake, NY 12983

FACTORY POSITION

IN PLASMA ENGINEERING AND FUSION TECHNOLOGY

The Department of Nuclear Engineering at MIT is seeking applicants for a tenure-track position at the level of assistant professor in the areas of plasma engineering and fusion technology. Candidates should hold a Ph.D. or Sc.D. degree in an engineering or physical sciences discipline.

The applicant should be strongly committed to fusion research and have broad intellectual interests in plasma engineering, fusion technology and plasma physics. Preference will be given to those candidates whose interests and experience bridge the gap between basic experimental plasma physics and engineering design. Hands-on laboratory competence is essential. As such, candidates should have experience in one or more of the following areas: plasma heating systems, plasma diagnostics, magnet design, plasma-wall interactions, impurity control, experimental design and operation, and liquid metal technology.

The position requires the capability to develop a substantial research program, including support, primarily through interaction and collaboration with other departmental faculty as well as with scientists and engineers at MIT's Plasma Fusion Center. The Plasma Fusion Center is an on-campus, inter-departmental, inter-disciplinary laboratory which serves as primary focus for fusion research for MIT.

The position also requires that the candidate be committed to teaching courses in the academic areas of plasma engineering, fusion technology, and fusion physics as well as assisting in the development of new courses, particularly involving design and laboratory experience. The successful candidate will have responsibility for the supervision of student research projects. Preference will be given to those candidates with demonstrated teaching competence.

Please submit curriculum vitae to: Professor Ian H. Hutchinson, Massachusetts Institute of Technology, 77 Mass Avenue, Cambridge, Massachusetts 02139-4307.

MIT is an Equal Opportunity/Affirmative Action Employer

MIT is a non-smoking environment

DIRECTOR

Office for Interdisciplinary Earth Studies

The Office for Interdisciplinary Earth Studies (OIES) was established by the University Corporation for Atmospheric Research (UCAR) in 1986 to represent all disciplines that study the earth as an interconnected system. The office is a program-driven activity designed to serve the needs of the US Global Change Research Program (USGCRP) and the International Geosphere-Biosphere Programme (IGBP) through advocacy, dissemination of information and the definition and instigation of scientific research.

OIES initiates new planning endeavors to define and implement the research programs described above and works with top-level administrators in NASA, NOAA, NSF, DOE, EPA, and USGS and the National Academy of Sciences (NAS) to define and implement activities within these agencies that support the USGCRP. OIES works internationally with the Secretariat of the IGBP in performing similar functions for the IGBP.

UCAR is seeking a highly qualified professional with broad experience and expertise in the earth, biological or appropriate social sciences to lead the OIES program. The OIES Director will foster and promote the goals of the broad global change research program. Salary will depend upon qualifications and experience.

The President of UCAR wishes to appoint the OIES Director in the summer of 1992. Applications should include a letter of interest, curriculum vitae and list of publications. Please address them to Chairman, OIES Search Committee, c/o UCAR Human Resources, Attn: Anna Reyna-Arcos, University Corporation for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307. Applications for this position must be received by May 29, 1992. Please refer to Job #1561 on all correspondence.

UCAR has a strong commitment to the principle of diversity in all areas. In that spirit, we are interested in receiving applications from a broad spectrum of people, including women, minorities, and disabled individuals.

University Corporation for Atmospheric Research

Massachusetts Institute of Technology

Alza

The Institute is located on the shore of Saranac Lake, 8 miles from Lake Placid, New York.

Send curriculum vitae and the names of three references to:

Dr. Joseph O. Hill
Trudeau Institute, Inc.
P.O. Box 59
Saranac Lake, NY 12983

MIT

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University Corporation for Atmospheric Research
Request for Consultants to Serve as NIH/ADAMHA Peer Reviewers

The National Institutes of Health (NIH) and the Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA) are in the process of establishing a new consultant file of peer reviewers. These reviewers will be selected from a national pool of scientists who are engaged in basic or applied research. Data from qualified respondents will be entered into a new computerized NIH/ADAMHA database. This unique database will be used as one source from which candidates for membership on NIH/ADAMHA committees and for other advisory activities are drawn. Consultant scientists act in an advisory capacity to assist NIH/ADAMHA in the evaluation of research projects.

All qualified scientists are requested to participate.

Qualified women and minority scientists are encouraged to apply.

All scientists who are interested in participating should respond by letter requesting a copy of the NIH/ADAMHA Consultant File Information Form. Since the new file will be established based solely on positive responses, your response is needed even if you are already a consultant or are a member of a Reviewer's Reserve. This file is independent of other consultant files. Your request should be sent to:

NIH/ADAMHA Consultant File
7101 Wisconsin Avenue, Suite 1125, Box 35
Bethesda, MD 20814

RESEARCH SCIENTISTS

Natural Product Sciences, Inc. is a rapidly growing pharmaceutical company combining a novel focus on calcium-related drug targets with a non-traditional program in discovery of natural product drug leads. NPS has developed a unique multidisciplinary program in the pathophysiology and pharmacology of calcium-dependent regulatory processes, especially as it applies to bone and mineral-related diseases and central nervous system disorders. NPS is currently undergoing a major expansion and is seeking research scientists in the following fields of expertise.

**Cardiovascular Pharmacology** Applicants (Ph.D. level) should have training in both in vitro and in vivo assessment of cardiovascular function. Those with expertise in the pharmacology of voltage-sensitive calcium channels are especially encouraged to apply.

**Cellular Physiology/Pharmacology** Applicants (B.S., M.S., Ph.D. level) should be familiar with ligand-receptor interactions and receptor-dependent transmembrane signaling mechanisms. Those with experience in the measurement of cytosolic calcium and/or ligand-binding techniques are especially encouraged to apply.

**Animal Physiology/Endocrinology** Applicants (Ph.D. level) should have a thorough understanding of bodily calcium metabolism and be capable of performing in vivo experiments. Those with experience in the measurement of serum levels of calcium-regulating hormones and assessment of kidney function are especially encouraged to apply.

**Behavioral Pharmacology** Applicants (M.S., Ph.D. level) should have experience in assessing the effects of drugs in animal models. Those familiar with animal models of stroke will be given special consideration.

**Bone Biology/Osteoporosis** Applicants (B.S., M.S., Ph.D. level) should have experience in assessing the effects of drugs and hormones in in vitro and/or in vivo bone resorption assays. Those familiar with the biology of the osteoclast are especially encouraged to apply.

**Molecular Biology** Applicants (M.S., Ph.D. level) should have extensive experience in cDNA cloning, construction and screening of plasmid libraries, PCR and mRNA techniques. Those with experience in expression cloning and/or hybrid arrest techniques are especially encouraged to apply.

Natural Product Sciences offers competitive salaries, benefits and the opportunity for equity ownership. Our location on the western slopes of the Rocky Mountains provides an unusually beautiful and livable environment in which to pursue innovative research.

Please send curriculum vitae to: Director of Personnel, Natural Product Sciences, Inc., 420 Chipeta Way, Suite 240, Salt Lake City, Utah 84108. We are an Equal Opportunity Employer.
**Gillette Research Institute, a division of The Gillette Company, serves as a worldwide leader in the manufacture of fine grooming and health care products. These key opportunities are currently available, to help create the next generation of marketable products for Gillette:**

**Project Leader**

This Scientist will lead a research project in antiperspirancy. We seek a PhD with 5+ years' research experience in Physiology, Biochemistry or a related science; antiperspirancy research expertise is desirable.

**Polymer Chemist**

We seek a Scientist for cosmetic applications of polymer research; requirements include a PhD with 3+ years' research background in Polymer Chemistry or a related field. Prior experience in polymer cosmetic applications is preferred.

Gillette offers excellent compensation, benefits and relocation assistance, as well as strong growth potential. We are located in a new facility in Montgomery County, offering affordable housing and easy access to the Washington, DC area. Please send a resume with salary history and requirements to:

**Gillette Research Institute**
401 Professional Drive
Gaithersburg, MD 20879
An Equal Opportunity Employer

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**RESEARCH SUPERVISOR**

**Pharmacology**

*Share the vision. Consider Anaquest, the company looking ahead to year 2000 and beyond.*

At Anaquest, achievement is a way of life. By any measure, our success has been astounding as we have grown to become the leading provider of anesthesia-related pharmaceuticals in North America. If you are highly motivated, willing to stretch yourself to new limits, then Anaquest could be the place for you.

Our current growth is fast and our staff is lean. Responsibility comes quickly and the challenges are great. If this is the kind of environment where you would thrive, you could be right for this outstanding opportunity. We seek a professional, enthusiastic scientist to supervise behavioral pharmacology research at our R&D facilities in Central New Jersey.

To successfully handle this role, you need a PhD in Pharmacology or a related area, 3-5 years of industrial experience, as well as excellent oral/written communication and proven supervisory skills. Background must include expertise in in vivo behavioral screening, working knowledge of medicinal chemistry, plus ability to interact effectively with small teams of chemists. Familiarity with the perioperative anesthesia area is desirable.

Knowledge of molecular biological concepts is a plus.

Anaquest offers a competitive compensation package that includes an excellent salary, comprehensive and flexible benefits, plus outstanding opportunities to advance your career. For immediate, confidential consideration, please send your resume and salary history to:

Human Resources, Box TJ, Anaquest, 110 Allen Road, Liberty Corner, NJ 07938. Although we will review every resume, we will only be able to respond to qualified candidates. We are an equal opportunity employer M/F/HV.

**Anaquest**

A BOC Health Care Company
Critical Care
Worldwide

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**POSITIONS OPEN**

**INSTRUCTOR DIVISION OF ENDOCRINOLOGY**

Position available immediately to study mechanistic relationships between estrogen and growth and differentiation of breast cancer cells in tissue culture and in vivo. Candidates should have a Ph.D. or equivalent with experience in molecular biology, cell culture, and steroid biochemistry. Applicants will be expected to have completed at least 1 year of postdoctoral training. This is an entry-level faculty position. Send curriculum vitae and the names of three references to: R. J. Santen, M.D., Chief, Division of Endocrinology, Diabetes and Metabolism, The Milton S. Hershey Medical Center, Pennsylvania State University, P.O. Box 850, Hershey, PA 17033. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

**SENIOR INORGANIC CHEMIST:** The Department of Chemistry of the University of California, Santa Barbara (UCSB), is initiating a search for a senior inorganic chemist as a replacement for Ralph G. Pearson, who has recently become Professor Emeritus. The timing of this appointment is planned to correspond to the scheduled 1993 completion of a 61,430 ASF addition to the Chemistry Building. Only those individuals with an outstanding record in research and teaching will be considered. The specific sub-field is open and applications will be accepted until this position is filled. Persons interested in applying or obtaining further information are urged to write to: Chair, Inorganic Search Committee, Department of Chemistry, University of California, Santa Barbara, CA 93106–9510. Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITION TULANE UNIVERSITY**

The Tulane University, School of Public Health and Tropical Medicine, and the Tulane Regional Primate Research Center are committed to the development of a vigorous research program in tropical medicine. Applications are invited for a tenure-track faculty position shared by the Department of Tropical Medicine and the Primate Center. Faculty rank will be commensurate with the applicant's experience and achievements. The successful candidate will have an ongoing program of independent research related to malaria or other important diseases of the tropics. Research areas of particular interest include apicomplexan biology, the genetics of Plasmodium, molecular entomology, immunology of plasmodial infection, vaccine studies and retroviral biology. This individual will also be expected to take a substantial role in the department's graduate training program. Research laboratories will be available within the Tulane Medical Center and the Primate Center. Preference will be given to candidates with research programs that take advantage of the resources available at both institutions.

Applicants should send curriculum vitae, the names and addresses of three references, and a statement of professional goals, interests and experience to:

Dr. Thomas C. Orihel
Chair, Search Committee
Department of Tropical Medicine
Tulane Medical Center
1430 Tulane Avenue
New Orleans, LA 70112

Applications will be accepted until a suitable candidate is identified. Tulane University is an Affirmative Action/Equal Opportunity Employer, and qualified women and minorities are encouraged to apply.

**POSTDOCTORAL POSITION**

A postdoctoral position is available immediately for a recent graduate, with training in organic chemistry, medicinal chemistry, and peptide chemistry. The successful candidate will assist our organic research team with the design and synthesis of biologically relevant compounds. Starting salary is in the mid-30's and the appointment is for 1 year with the possibility of a 1-year renewal.

Interested candidates are invited to forward their curriculum vitae and a statement of their research interests and experience in strict confidence to: D. Carlson, NeoRx Corporation, 410 West Harrison Street, Seattle, WA 98119.

NeoRx Corporation is an Equal Opportunity Employer, M/F/HV.
POSITIONS OPEN

COOPERATIVE EXTENSION ASSISTANT SPECIALIST (CE) AND ASSISTANT ENOLOGIST IN THE AGRICULTURAL EXPERIMENT STATION (AES). Applications are sought for an 11-month position available 1 July 1992. The appointee is expected to carry out a program of CE education and applied research in wine making relevant to her/his area of expertise, to have a commitment to both the extension and applied research aspects of the position, to develop a strong and highly visible statewide program in extension, and to attend relevant information to winery personnel, wine industry suppliers and the public as needed, and will be expected to interact with members of allied departments and other institutions.

Search Committee

CAMP side

$27,000

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COOPERATIVE

POSTDOCTORAL

UNIVERSITY OF CALIFORNIA

SAN FRANCISCO

Post-doctorates are available immediately for biochemists or cell biologists with molecular biology experience. Projects involve (1) cloning of the mammalian nucleo-

side transporters and studying the regulation of nucleo-

tide transport by phosphorylation and (2) regulation of

CAMP signal transduction by “cross-talk.” Salary is

$27,000 to $30,000. Send curriculum vitae, summary of

research experience, and names of three references to:

Drs. Adrienne Gordon or Ivan Diamond

Department of Neurology

Gallo Center

Building 1, Room 101

1001 Potrero Avenue

San Francisco, CA 94110

The University of California is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

to study muscle development/fusion using combination of molecular biology and image processing techniques. Some experience in molecular biology is required. Applicant must be a citizen or permanent resident of the United States. Position available immediately. Please contact: Drs. Joseph W. Sanger/H. Lee Sweeney, University of Pennsylvania School of Medicine, 36th Street and Hamilton Walk, Philadelphia, PA 19104-6058. The University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

The Johns Hopkins University Division of Surgical Oncology has a position available for a POSTDO-

TORAL FELLOW for the study of receptor and G-protein-mediated vascular proliferative phenomena. Studies will center on mechanisms of signal transduction in controlling angiogenesis in portal vascular proliferative events and neoplastic neovascularization. Expertise in molecular biology techniques is essential. Please send curriculum vitae, name and address of three references to: James V. Sitzmann, M.D., Chief, Surgical Oncology, The Johns Hopkins Medical Institutions, 600 North Wolfe Street, Baltimore, MD 21205.

POSTDOCTORAL POSITION

A position is available to study the molecular mechanisms of cancer chemoprevention beginning 1 September 1992. The research focus is on the inhibitory effect of green tea administration on ultraviolet light-induced skin tumorigenesis in mice as well as the inhibitory effects of green tea, curcumin and rose-

mary on tumor promotion in mouse skin. Experience in molecular biology is necessary. Please submit curriculum vitae and three letters of recommendation to: Dr. Allan Conney, Laboratory for Cancer Research, College of Pharmacy, Rutgers, The State University of New Jersey, P.O. Box 789, Piscataway, NJ 08855-0789.

SCIENTIST

MAMMALIAN CELL EXPRESSION

Delivering on the Promise of Biotechnology...

ImmuneX Corporation, a Seattle biopharmaceutical company focused on the research, development, manufacture and marketing of products to treat cancer and autoimmune disease, is seeking a qualified candidate to join our Mammalian Cell Development group.

The successful candidate will be responsible for hands-on expression of therapeutic proteins in mammalian cell culture. This will involve transfection, selection and amplification of appropriate foreign genes in cell lines suitable for large scale manufacture of recombinant proteins. Responsibility for improvement of both stable and transient mammalian expression systems will also be an important component of this position.

ImmuneX Corporation offers a fast paced, stimulating environment, competitive salaries and an excellent benefits package. For consideration, please submit C.V., names of three references, and a list of publications to: IMMUNEX CORPORATION, Attn.: Human Resources Dept., 51 University St., Seattle, WA 98101. Fax: (206) 623-4572.

Equal Opportunity Employer.

SCIENTIST

Cardiovascular Pharmacologist

SmithKline Beecham Pharmaceuticals, a leader in innovative pharmaceutical research, has an opening for a Ph.D. Research Scientist to join its Cardiovascular Pharmacology Department. The selected candidate will establish and conduct independent research programs to explore mechanisms of thrombosis, cardiac function and congestive heart failure in relevant in vitro and in vivo models, and collaborate with intramural and extramural scientists to evaluate new pharmacological strategies for cardiac and thrombotic diseases.

The candidate will integrate pharmacologic, physiologic, biochemical and cell biology methodologies to identify new therapeutic strategies for cardiovascular diseases and publish and present scientific data in intramural and extramural forums, including national and international conferences.

Qualified candidates will have a Ph.D. in Pharmacology, Physiology or Biochemistry or a related discipline with at least two years of postdoctoral training in cardiovascular research. A strong record of scientific publications in the field of cardiovascular research is required. Proficiency in techniques for monitoring regional and systemic hemodynamics, regional cardiac function and the coronary circulation is desired. Experience in platelet biology and coagulation is preferred.

SmithKline Beecham Pharmaceuticals offers a stimulating and challenging scientific environment in which to grow and excel. We offer a competitive compensation/benefits/relocation package. For confidential consideration, please submit your C.V. along with the names of three references to: Marilyn Leggio, Associate Employment Administrator, #L0116, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406. We are an Equal Opportunity Employer, M/F/H/V.
Applicants should be familiar with the development, design, coordination, analysis, and reporting/presenting of results from multicauser clinical trials which are under the auspices of the Branch; developing conferences relevant to Branch activities, including medical and methodological issues; collaborating with scientists nationwide and internationally; consulting and interacting with other Branches in the Division, other Divisions in the Institute, other Institutes, and investigators outside the National Institutes of Health; and providing scientific advice to the Director of the Division of Epidemiology and Clinical Applications and the Director of the National Heart, Lung, and Blood Institute.

Specific requirements are: (1) an M.D. degree or its equivalent and experience in clinical and public health research, including multicenter clinical trials. Interest in cardiovascular disease and biostatistics is desirable. Position is a GM-602-15 Medical Officer with a salary range of $56,515 to $87,784. In addition, candidates may be eligible for Physician’s Comparability Allowability of up to $20,000. Candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service. U.S. Citizenship is required.

For further information or to submit curriculum vitae, contact: Lawrence Friedman, M.D., Acting Director, DECA/NHLBI, Federal Building, Room 212, 7550 Wisconsin Avenue, Bethesda, MD 20892; 301-492-2533.

NID is an Equal Opportunity Employer

Faculty Positions in Biochemistry and Molecular Biology
Department of Biochemistry
University of Missouri-Columbia

The Department of Biochemistry at the University of Missouri-Columbia invites applications for tenure track positions at the level of Assistant Professor or, in exceptional circumstances, at higher level. The Department has excellent programs in the biochemistry and molecular biology of plants and animal cells and provides a stimulating environment for productive research and for training students. New facilities for housing a program in protein structure will be completed in fall, 1992. Extensive interactions with other departments in the School of Medicine, the College of Agriculture, Food and Natural Resources and the College of Arts and Science support interdisciplinary research. Eminence Programs in Molecular Biology and Food for the 21st Century provide funds for research, for core facilities and for graduate student and postdoctoral training.

Candidates should have a strong research background and postdoctoral training in cellular, molecular or developmental biology of animal cells and/or protein structure and function.

Applicants should provide a curriculum vitae, a description of research experience and interests, and have three letters of reference sent to Dr. R. Michael Roberts, Chair, Faculty Search Committee, 117 Schwitzer Hall, Department of Biochemistry, University of Missouri, Columbia, MO 65211. Deadline for application is May 31 or until suitably qualified candidates are identified.

The University of Missouri is an Equal Opportunity/Affirmative Action Employer and specifically invites and encourages applications from qualified women and minorities.

With the assistance of an MRC program development grant, this University seeks to establish a research program in Neurobiology. We wish to recruit a Ph.D. level Senior Investigator at the rank of Professor or Associate Professor with an established academic record in the field of virus/CNS interaction. We also wish to recruit two more Ph.D. level junior faculty members at the rank of Associate or Assistant Professor with research experience complementary to this program.

These scientists will be a focus for the continuing development of research in neurobiology in association with existing local faculty members in various departments. They will also foster collaboration with investigators in other academic institutions through collaborative investigations and consultations.

The MRC program that sponsors this research has special provisions for investigators to apply for operating and capital equipment grants. Furthermore, the salary components of this program development are contingent on support by the MRC for a comprehensive proposal of exceptional merit.

The anticipated starting date will be January 1, 1993. Salary will be commensurate with qualifications and experience. In accordance with Canadian Immigration requirements, priority is given to Canadian citizens and permanent residents. The University of British Columbia encourages qualified women and minority applicants.

The deadline for applications from individuals and groups is June 30, 1992.

For further information, please contact:

J.A. Smith, MD, FRCP
Head and Professor
Division of Medical Microbiology
University of British Columbia
Room 211, 2460 Oak Street
Vancouver, B.C. CANADA V6H 3Z6

The University of British Columbia
FACULTY OF MEDICINE
Department of Pathology
Division of Medical Microbiology
A Special SCIENCE Recruitment Advertising Section

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Your recruitment ad will receive even more visibility in this issue which will be distributed at the American Society for Microbiology (ASM) meeting in New Orleans, May 26-30.

Deadline: Tuesday, April 21, 1992
Call Janis Crowley at:
(212) 496-7704

SCIENCE

ASPP Lecture Course
Plant Biochemistry 1992
28 June–19 July, 1992
University of California, San Diego


Program: Biochemical reactions create form and function according to the instructions found in the cells. In the last two decades there have been exciting developments in our knowledge of how genetic instructions are read. Meanwhile the information about metabolic pathways and the regulation of flow through these pathways has increased marginally. This course is designed to focus attention of the plant biology community on the biochemical problems of form and function of plant cells that could profitably be addressed using the tools developed during recent years.

Format: The course will be hosted by University of California, San Diego and the Salk Institute. Each speaker will deliver one 1–3 hours lecture in the morning. Discussion sessions will be held in the afternoons and evenings.


Participants: A maximum of 50. The course will be directed to graduate students, postdoctoral researchers and college and university teachers. A limited number of fellowships are expected to be available to help cover travel and accommodation.

Applications: Should be sent to Prof. J. E. Varner, Department of Biology, Box 1137, Washington University, St. Louis, MO 63130; FAX-314-935-4432 and should consist of a curriculum vitae and a brief statement of the specific reasons for wishing to participate.

Deadline: May 1, 1992.

We anticipate that "Plant Biochemistry 1993" will be held during the summer of 1993 at University of Wisconsin, Madison. Program Committee-Himadri B. Pakrasi, Kenneth Keegstra and William Ogren.

Research Scientists

go for the best—at Syva.

Research at Syva is serious business. As part of health care leader Syntex, our medical diagnostics company maintains a strong commitment to independent research. With state-of-the-art resources and ample project funding, our research scientists are proudly committed to forwarding Syva's lead in the diagnostic instrumentation marketplace. If you're not getting everything you want from your career, consider these opportunities for Senior Research Scientists in the Nucleic Acid Probes and Molecular Biology Groups.

The ideal candidate for the Nucleic Acid Probes Group will have a substantial background in the organic/physical chemistry of macromolecules and practice in manipulating nucleic acids in solution and on solid supports. Experience or interest in handling clinical samples for developing nucleic acid based infectious disease diagnostics also required. For the Molecular Biology Group, our ideal candidate will have experience in cDNA cloning, protein expression and purification, and techniques of site-directed mutagenesis.

Both positions require a PhD degree in Organic Chemistry, Biochemistry, or Molecular Biology plus 0–4 years of postdoctoral experience.

Please send resumes to Syva, 3403 Yerba Buena Rd., P.O. Box 49013, M/S E1-105, Dept. SWH, San Jose, CA 95116-9013. Equal opportunity employer m/f/h/v.
POSTDOCTORAL POSITION available immediately to study immune responses to a transmissible tumor in a marine fish. Applicants should be experienced in immunology and/or tumor biology, prior experience with fishes is not required. Appointment for 2 years at $25,000 per annum in the NIEHS Marine/Freshwater Biomedical Sciences Center at the University of Miami. Send curriculum vitae and names of three references to: Dr. Michael C. Schmalte, Division of Marine Biology and Fisheries, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149 or University of Miami is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN IMMUNOLOGY, Biochemistry, and Pathology are available immediately in the laboratory of Elizabeth Mellins, M.D., or Yvonne Paterson, Ph.D. Research will involve various aspects of antigen processing and presentation in the class I and II restricted pathway. Research candidates should possess a Ph.D. in molecular biology, immunology, or biochemistry. Send curriculum vitae and names of three references to: University of Pennsylvania, Philadelphia, PA 19104-6076. 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 $29,000. For details contact: Dr. Robert Messier, University of California, San Francisco, San Francisco General Hospital, Building 1, Room 1011, San Francisco, CA 94110. An Equal Opportunity Employer.

POSTDOCTORAL POSITION in MOLECULAR GENETICS to participate in the development of physical maps of regions of the human genome and the positional cloning of breast cancer–related genes. Candidates with experience in manipulation of yeast artificial chromosomes and DNA cloning preferred. Please send curriculum vitae and three letters of reference to: Dr. Barbara Weber/Dr. Francis Collins, The University of Michigan, 5510 MSRB-I, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0680. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS Positions available immediately for candidates with Ph.D. M.D., or D.V.M. degrees to train for independent careers in AIDS-related research. This NIH-AID AIDS Institutional Postdoctoral Training grant is designed for 3 years of support with 1 to 2 years of basic or applied research experience in the areas of HIV infection of man and related animal models. AIDS research at the University of California, Davis, has emphasized the unique availability of authentic pathogenic facili- ty-inducing lentivirus infections in Old World pri- mate (SIV) and domestic cats (FIV) as models for the human disease. These are multidisciplinary programs that include virology, molecular virology, immunology and pathology with an emphasis on understanding the host and viral determinants of pathogenesis. Only U.S. citi- zens or permanent residents may apply for this training program. Applicants should submit curriculum vitae, statement of research interests, reprints and the names, addresses, and telephone numbers of the names of three references to: Dr. Niels Pedersen, c/o Anita Moore, University of California, Davis, Department of Medical Pathology, Davis, California 95616. The University of California at Davis is an Equal Opportunity/Affirmative Action Employer and encourages applications from minority groups and women.

POSTDOCTORAL POSITION available immediately to study mechanisms of carcinogenesis. Research involves in vitro transfection and analysis of transcrip- tion factors and mutagenesis. Background in molecular biology required. Send curriculum vitae, description of research background, and names of three references to: Dr. Larry Jameson, Chief, Thyroid Unit, Massachusetts General Hospital, Boston, MA 02114. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS Postdoctoral positions for an NCI training program in molecular and cellular mechanisms of carcinogenesis are available at The University of Texas (UT) M. D. Ander- son Cancer Center. The training program will focus on the following areas: DNA repair and mutagenesis, carcinogen metabolism and adduct formation, tu- mor promotion, role of oncogenes and/or tumor sup- pressors genes in multistage carcinogenesis, normal and tumor cell differentiation, retrovirology, chemopreven- tion and nutrition in cancer. Applicants must have a U.S. citizens or permanent resident and must have a Ph.D., M.D., or D.V.M. degree. For applications forms, contact: Dr. Thomas Slaug, Director, UT Science Park—Research Division, PO Box 3889, Smithville, TX 78957; telephone: 512-237-2403. We are an Equal Opportunity/Affirmative Action Employer. Women and mi- norities are encouraged to apply.

HARVARD/POSTDOCTORAL POSITIONS are available to study molecular mechanisms of atherosclerosis with an emphasis on responses to growth and differentiation of vascular endothelial and smooth muscle cells. Experience with molecular cloning, gene regulation, cell biology, or transgenic models is desirable. Please send curriculum vitae and three letters of reference to: Dr. M. E. Lee, Cardiovascular Laboratory, Building 2, Room 365, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL POSITION available immediately to study regulation of neuronal gene expression in models of CNS injury. Salary $27,000 to $30,000 including health insurance. Send curriculum vitae, summary of research experience, and names of references to: Dr. Michael Miles University of California at San Francisco San Francisco General Hospital Building 1, Room 101 San Francisco, CA 94110 The University of California is an Equal Opportunity Employer.

POSTDOCTORAL POSITION. Investigation of tumor cell resistance to an anticancer drug by the use of techniques of molecular biology and enzymology. Ph.D. in biochemistry or related fields required. Experience in enzyme purification and analysis required, and experience in enzyme preparation and kinetic or directed mutagenesis is an advantage. Send curriculum vitae with names of three references to: Raymond L. Blakley, Ph.D., D.Sc., Department of Pharmacology, St. Jude Children's Research Hospi- tal, 352 North Lauderdale, Memphis, TN 38101. Affirmative Action/Equal Opportunity Employer.

POSTDOCITORAL POSITIONS. A position is available for a postdoctoral fellow to study the molecular mechanisms regulating cell calcium. Studies will use two model systems: Xenopus oocytes and epithelial cells. Calcium influx, oscillations, and waves will be studied electrophysiologically and with laser scanning confocal microscopy. Heterologous proteins involved in calcium regulation will be expressed from cDNAs and endogenous calcium regulatory proteins will be depleted using antisense oligos. A background in recombinant DNA techniques or a biochemistry background is preferred. Send curriculum vitae and the name and address of three references to: Dr. Michael J. Welsh, Depart- ment of Neuronal Membrane, Development, and Neurobiology, University of Iowa College of Medicine, 500 EMBR, Iowa City, IA 52242. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS FOR BASIC SCIENTISTS—CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY JOHNS HOPKINS SCHOOL OF MEDICINE

Unique opportunity for basic scientists with a Ph.D. and background in cardiovascular biology/mammalian physiology. Applicants must have a desire to perform basic research to develop/evaluate new procedures that will be used to treat patients through mini- mally invasive vascular/interventional radiology. Similar basic research has contributed to developing clinically important new procedures in cardiology, thoracic surgery, drug therapy, and nonsurgical treatments of vascular and nonvascular disorders. Excellent opportunities exist for applicants with developing new area of medical imaging research. This 2-year fellowship provides exposure to projects for head, neck, chest and abdominal applications. Fellows will work with clinical and basic research mentors from a multidisciplinary group. Applicants must be U.S. citizens or permanent resi- dent. Johns Hopkins University is an Equal Opportunity/ Affirmative Action Employer. Applicants are en- couraged to apply. Send letter, curriculum vitae and three references by 1 June 1992 to: James H. Anderson, Ph.D., Johns Hopkins Institute of Medical Physic- cine, 330 Traynor Building, 720 Rutland Avenue, Baltimore, MD 21205.

POSTDOCTORAL POSITION available immediately to study molecular mechanisms regulating expres- sion of neurotrophic factors in the CNS. Experience in recombinant DNA and cell biology is desira- ble. Send curriculum vitae and names of three references to: Dr. Paul Iackson, Mayo Clinic Jacksonville, 4500 San Pablo Road, Jacksonville, FL 32224. Equal Op- portunity Employer. Drug-free and smoke-free workplace.

POSTDOCTORAL POSITIONS available imme- diately to study mechanisms of growth factor and onco- gene intercellular signaling and new cancer drugs based on the modulation of these signaling path- ways. Applicants must have a Ph.D., M.D. or equivalent degree and a background in biochemistry, molecular biology, cell biology or pharmacology. The position offers the opportunity for independent research in a well- equipped, multidisciplinary laboratory in an attractive work environment. Applications and three letters of recommendation should be sent to: Dr. Garth Pownis, Arizona Cancer Center, The University of Arizona Health Sciences Center, 1515 North Campbell Ave- nue, Tucson, AZ 85724. An Equal Opportunity/Affirmative Action/Tide IX/Section 504 Employer.

POSTDOCTORAL POSITION available imme- diately to study the theory of phylogenetic inference from molecular data, molecular population genetics, and/or to analyze DNA sequence data for studying the pattern of nucleotide substitutions. An Affirmative Action/Equal Opportunity Employer. Women and Minorities Encouraged to Apply. Send curriculum vitae and names of three references to Dr. J. Niels Effinwood, The Institute of Molecular Evolutionary Genetics and Depart- ment of Biology, Pennsylvania State University, 328 Mountain Laboratory, Box S, University Park, PA 16802-5303.

POSTDOCTORAL FELLOWSHIPS FOR BASIC SCIENTISTS—CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY JOHNS HOPKINS SCHOOL OF MEDICINE

Unique opportunity for basic scientists with a Ph.D. and background in cardiovascular biology/mammalian physiology. Applicants must have a desire to perform basic research to develop/evaluate new procedures that will be used to treat patients through minimally invasive vascular/interventional radiology. Similar basic research has contributed to developing clinically important new procedures in cardiology, thoracic surgery, drug therapy, and nonsurgical treatments of vascular and nonvascular disorders. Excellent opportunities exist for applicants with developing new area of medical imaging research. This 2-year fellowship provides exposure to projects for head, neck, chest and abdominal applications. Fellows will work with clinical and basic research mentors from a multidisciplinary group. Applicants must be U.S. citizens or permanent resi- dent. Johns Hopkins University is an Equal Opportunity/ Affirmative Action Employer. Applicants are en- couraged to apply. Send letter, curriculum vitae and three references by 1 June 1992 to: James H. Anderson, Ph.D., Johns Hopkins Institute of Medical Physic- cine, 330 Traynor Building, 720 Rutland Avenue, Baltimore, MD 21205.
The National Wildlife Research Center (N.W.R.C.) in Taif, Saudi Arabia, invites applications for the position of an ECOLOGIST. The N.W.R.C., located about 30 km east of Taif, is a division of the National Commission for Wildlife Conservation and Development in Saudi Arabia. The Center is committed to the captive breeding and reintroduction of endangered species as well as wildlife conservation and research programs throughout the Kingdom.

The ecologist will be engaged in the development of projects determining the impact of overgrazing, monitoring the recovery of vegetation in protected areas, evaluating the potential of areas for reintroduction, and assess the carrying capacity for various species. He will be working closely with other biologists on reintroduction projects and the conservation of endangered species in Saudi Arabia.

Candidates should possess a Ph.D. in ecology, have extensive experience in studying animal plant interactions, preferably in semi-arid areas. He also should be familiar with ecological modelling and the assessment of carrying capacity for various species of ungulates. Experience with GIS-systems would be welcome. Excellent skills in written and spoken English are required.

We offer a very competitive salary, 2 months annual vacation, 2 return fares to the country of recruitment, accommodations with food, use of vehicles and transport allowance.

Applications should consist of a letter of interest, curriculum vitae and names and telephone numbers of three references. Nominations with supporting statements are also welcome. The position is immediately available. Applications should be submitted before May 15 to: Search Committee (Ecologist), National Wildlife Research Center, P.O. Box 1086, Taif, Kingdom of Saudi Arabia. Phone: +966-2-745-5186. Fax: +966-2-745-5176.
The most comprehensive array of genetic tests. The highest standards of service. A commitment to bringing new technology to our field. This is IG Laboratories, the majority-owned subsidiary of Genzyme serving critical healthcare needs across the nation. Our goal is to achieve the dominant position in genetic testing. We have the people, the values, and the financial strength to accomplish this goal. If you’re ready to be a key contributor in an organization that is moving research into the clinic, join IG – the Genetic Testing Company.

**Senior Scientist - PCR**

We seek a senior researcher with a strong genetics background to develop PCR based assays to detect human genetic diseases. Tests will be immediately employed in clinical laboratory applications with a direct impact on patient care. The successful candidate will also have the opportunity to collaborate on basic research projects to identify and characterize human disease genes.

Requires a Ph.D. and 5-10 years’ overall experience and a strong background in genetics. Specific expertise in the development of PCR based assays to detect single base pair changes in human disease genes and extensive PCR research experience is essential.

IG offers an excellent compensation and benefits package including incentive stock options, a 401(k) Plan with a company match, and extensive insurance plans. Our state-of-the-art facility is located 30 minutes west of Boston and has its own lecture hall, fitness facility, and library. For immediate consideration, please send your resume to: Vice President, Human Resources, Dept. S410, IG Laboratories, One Mountain Road, Framingham, MA 01701.

An equal opportunity employer.

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**ENZYME KINETICIST RECEPTOR STRUCTURE-BASED DRUG DESIGN**

Agouron Pharmaceuticals, Inc., located in the La Jolla, California area and a recognized pioneer and leader in the field of rational drug design, has an immediate opening for a Ph.D. level scientist with a strong background in enzyme kinetics to join its multidisciplinary team.

The successful candidate will hold a Ph.D. in biochemistry, protein chemistry or a closely related field and have up to 5 years postdoctoral experience in independent research. He/she will be expected to develop and implement assay systems for the quantitation of enzyme kinetic parameters and protein-ligand binding interactions for a variety of drug design target molecules. A strong background in protein chemistry, kinetics and structure-function analyses is necessary plus an interest in interacting closely with colleagues in a wide range of scientific disciplines.

In addition to an intellectually stimulating environment in the midst of many other dynamic academic and industrial research centers, Agouron offers competitive salaries and benefits in a superb location. Please send a detailed resume in confidence to:

Human Resources Reference-Dept. EK

Agouron Pharmaceuticals, Inc.
3565 General Atomics Court, San Diego, CA 92121

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**ASSOCIATE EDITOR**

Two editorial positions at *Science* are available for either a biochemist and/or bio-organic chemist with knowledge of high-resolution structural analysis, or a cell or molecular biologist with a background in physiology, medicine or neuroscience. We are seeking PhD scientists with at least two or three years of post-doctoral experience and publications in refereed literature. Editors have varied responsibilities including solicitation, selection, and editing of manuscripts. Previous editorial experience is not required. This is a full-time position in our Washington offices.

Please send resume and a list of publications with cover letter and salary requirements to:

Mr. Gregory Stokes
AAAS
1333 H Street, NW
Washington, DC 20005

EOE
LIGAND Pharmaceuticals is a rapidly growing drug discovery company that is combining powerful molecular biology with pharmacology and medicinal chemistry to identify, develop, and commercialize a diverse array of novel therapeutics. The thrust of our research, and our proprietary positions, are focused in the area of intracellular receptors. These receptors, which function as ligand-dependent transcription factors, modulate the activities of hormones such as estrogen, retinoic acid, vitamin D, thyroxine, and glucocorticoids. We are seeking talented individuals who want to become part of a team that discovers drugs for the treatment of cancer, dermatological, cardiovascular, and inflammatory diseases. LIGAND is establishing a cutting-edge, multidisciplinary team of chemists, pharmacologists, molecular biologists, and biochemists that provides an integrated approach to drug discovery. A commitment to creativity, excellence and the desire to work as a member of a multidisciplinary team are essential qualities for each of the positions listed below.

**Pharmacology:**

**Senior Research Pharmacologists** with PhDs in either Pharmacology or Physiology, with 1-4 years' experience studying the in vivo or in vitro activities of hormones, such as the sex steroids, vitamin D, retinoic acid, or glucocorticoids. The successful candidate should establish a cutting-edge basic research program, working closely with chemists and molecular biologists to discover novel drug candidates. One should have a keen interest in understanding the molecular bases for the pharmacological actions of novel drug candidates.

**Senior Research Pharmacologists** with PhDs in either Pharmacology or Toxicology, with 2-4 years of experience studying the absorption, distribution, metabolism, and excretion of xenobiotics. The successful candidate will become part of a multidisciplinary research team, dedicated to the discovery of novel therapeutic agents. A knowledge of the toxicology and regulatory requirements necessary to characterize novel agents for clinical evaluation is necessary.

**Research Associates** with BS and/or MS degrees in Pharmacology, Biochemistry, Physiology, or Biology with 1-2 years' experience in a laboratory setting. Research Associates will work with a Senior Scientist and be involved in conducting pharmacology and/or drug metabolism studies. The successful candidates will have a desire to work as a member of a research team, and to provide intellectual input into experimental design and data interpretation.

**Cellular and Molecular Biology:**

**Cellular and Molecular Biologists** with a PhD whose primary focus will be to study members of the steroid receptor superfamily and their cognate ligands at the molecular and cellular level. Research in this group will include molecular, biochemical and cell biological approaches to examine the function of the specific receptor ligands and the target genes that they regulate. Areas of focus will include characterization of retinoid receptor isoforms and novel ligands that modify their activity, as well as characterization of novel members of this receptor superfamily.

**Biochemistry:**

**Research Biochemists** with PhDs in either Biochemistry or Molecular Biology. We seek individuals with 2-4 years' postdoctoral experience and familiarity in the biology, structure and function of intracellular receptors and/or transcription factors. Particular consideration will be given to those individuals with expertise in the areas of protein chemistry or biochemistry, and in protein physical structural analysis. We also seek an individual with skills in yeast genetics and/or yeast recombinant protein expression and production.

LIGAND provides a stimulating intellectual environment with contemporary research facilities. We offer competitive salaries commensurate with your experience and accomplishments, a comprehensive benefits package, and ample opportunities to impact our scientific programs. For confidential consideration, please submit your resume or CV to either: Dr. Scott Hayes (Pharmacology), Dr. Rich Heyman (Cellular and Molecular Biology), or Dr. Wes Pike (Biochemistry) at LIGAND Pharmaceuticals Inc., 9393 Towne Centre Drive, Suite 100, San Diego, CA 92121. We are an equal opportunity employer.
POSTDOCTORAL FELLOWSHIP
To study eccinocandin and cytochrome interrelationships in the primary microbe, background in arachidonic acid metabolism preferred. Cell culture experience, immunosassay and HPLC experience desirable. Send curriculum vitae to: Dr. Laurence M. Demers, Department of Pathology, The M. S. Hershey Medical Center, Penn State University, Hershey, PA 17033. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH FELLOW
NIH-funded position is immediately available to develop and characterize imaging agents and probe cellular bioenergetics with diagnostic pharmaceuticals. Send curriculum vitae to: Dr. Philip W. Warna, M.D., Ph.D., Department of Radiology, Harvard Medical School, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115; telephone: 617-731-6285. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
MOLECULAR/CELLULAR MUSCLE PHYSIOLOGIST
A position for a RESEARCH ASSOCIATE is available immediately for someone trained in molecular biology with an interest in the regulation of muscle gene expression by vitamin D metabolites. Northern and Southern analysis, "footprinting," and production and assay of chimeric genes desirable. Salary $22,000 to $27,000. Send curriculum vitae, vita summary, telephone numbers and address of three references to: Norman Briggs, Department of Physiology, Box 551, Richmond, VA 23298.

We are looking for a motivated individual with a solid background in molecular biology and 2+ years of lab experience in RNA/DNA electrophoresis, Southern/Northern blotting, and DNA sequencing, to join our marketing team. This position requires technical expertise in supporting customers, training sales reps, and assisting in product management. Excellent verbal and written communication skills, freedom to travel, and a strong work ethic are essential. B.S. in molecular biology or equivalent required. M.S. preferred.

Please send your resume to: Bio-Rad Laboratories, Ltd, 525 Virginia Road, Aliso Viejo, CA 92656; Fax: 949-240-147, Alfred Nobel Drive, Hercules, CA 94547. Equal Opportunity Employer, M/F/H/V.

POSTDOCTORAL RESEARCH FELLOWSHIP
Immediate opening in the laboratory of Dr. Wayne Chrispin, Department of Pathology, University of Kansas Medical Center, Kansas City, KS 66103. Salary $33,000 depending on experience. Starting date dependent. Position requires a Ph.D. in biochemistry with experience in the isolation and characterization of DNA binding proteins. In particular, experience with gel shift assays, immunoprecipitation, and autoradiography is essential.

The successful candidate will have the opportunity to work in a professional, collegial atmosphere and will be well supported by the research activities of the Department of Pathology, including the division of Transfusion Medicine Research.

Applicants are invited for a RESEARCH ASSOCIATE position in the Department of Materials Science and Engineering at the University of California, Berkeley. The position requires a Ph.D. in materials science and engineering or a closely related discipline. Research activities in the laboratory include the development and application of novel materials and processes for the fabrication of microelectronic devices. The position is available immediately and will continue until filled.

Applicants should send their curriculum vitae and the names of three references to: Alfred B. Huang, Department of Materials Science and Engineering, University of California, Berkeley, CA 94720.

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Applicants should send their curriculum vitae and the names of three references to: Alfred B. Huang, Department of Materials Science and Engineering, University of California, Berkeley, CA 94720.
UNIVERSITY OF CALIFORNIA
DAVIS
DIRECTOR, CENTER FOR MOLECULAR CELL BIOLOGY

The University of California at Davis invites applications and nominations for the position of full professor and Director of a newly established Center for Molecular Cell Biology.

The Center for Molecular Cell Biology is a campus-wide unit that will provide research space, integrate existing resources and initiate new interdisciplinary programs in basic research. The Director will have the principal role in selecting and recruiting up to 19 new junior and senior faculty to be affiliated with the Center with academic appointments in existing departments.

The Director will be an internationally recognized scientist with a vigorous research program in molecular, cellular or developmental biology. The successful candidate will exhibit a broad range of scientific interests and have proven leadership skills. The Director's position involves a faculty appointment at the professor level in an academic department in one of the colleges/schools with programs in molecular cell biology. The Director reports to the Dean of the Division of Biological Sciences.

To assure full consideration, nominations and applications should be received by 1 June 1992. The position will remain open until filled. Applications should include a letter of interest, curriculum vitae, and the names and addresses of at least three references. Nominations and applications should be sent to:

John W. B. Hershey
Chair, Center Director's Search Committee
Office of the Dean
Division of Biological Sciences
University of California
Davis, CA 95616

Informal queries can be directed to Dr. John W. B. Hershey, Department of Biological Chemistry, at 916-752-3235.

The University of California, Davis and the Division of Biological Sciences are interested in candidates who are committed to the highest standards of scholarship and professional activities, and to the development of a campus climate that supports equality and respect for differences based on gender, cultural ethnicity, level of disability and sexual preference. The University of California is an affirmative action/equal opportunity employer.

SIMON FRASER UNIVERSITY
DEPARTMENT OF BIOLOGICAL SCIENCES

Applications are invited for two tenure-track positions at the Assistant Professor level in the areas of:

1. Plant Physiology
2. Plant Molecular Biology

Applicants should specify which of the two positions they are applying for. Applicants should have post-doctoral experience and a strong research record. They should be able to contribute to undergraduate teaching in one or more of the following areas: vascular plants, plant physiology, plant molecular biology, general biochemistry, general biology. They will be expected to develop an active and independent research program and contribute to graduate training and education in their area of specialization. There are many possibilities for collaborative research in a number of areas and excellent facilities exist for physiological and molecular biological work. Positions available January 1, 1993; starting dates negotiable.

Applicants should submit a curriculum vitae, reprints and a statement of current and future research interests, and should arrange to have three letters of recommendation, including comments on their research and teaching abilities, sent to:

Dr. B. A. McKeown, Chair
Dept. of Biological Sciences
Simon Fraser University
Burnaby, B. C.
Canada, V5A 1S6

The closing date for applications for both positions—July 1, 1992 or until filled

Simon Fraser University is committed to the principle of equity in employment and offers equal employment opportunities to qualified applicants. This advertisement is directed to applicants who at the time of application are eligible for employment in Canada.

ASSISTANT PROFESSOR
UNIVERSITY OF MINNESOTA
BIOMEDICAL ENGINEERING CENTER

A full time tenure track position is available at the rank of assistant professor for candidates who hold a Ph.D. in a biological science or chemistry with a minimum of three years postdoctoral experience to include the use of techniques of computational chemistry (molecular mechanics, dynamics, semi-empirical and ab initio calculations) and X-ray crystallography of small peptides. Experience with a number of graphics packages would be advantageous. Candidate will be expected to develop an independent research program and on-going research program in practical applications in the area of bioengineering and drug design.

Individual will participate in the teaching and training programs of the Biomedical Engineering Center and department teaching programs for residents, medical students and graduate students.

Applicants should send curriculum vitae, a brief synopsis of recent research and teaching activity plus three letters of reference to:

BMEC Assistant Professor Search Committee
Box 198 UMHC Department of Laboratory Medicine & Pathology
420 Delaware St. S.E.
Minneapolis, Mn. 55455

Deadline for receipt of applications is May 15, 1992. Position to begin is approximately July 1, 1992. The University of Minnesota is an equal opportunity educator and employer.

National Institute on Aging

MEDICAL STAFF FELLOWSHIP IN NEUROPHARMACOLOGY, USING POSITRON EMISSION TOMOGRAPHY

Medical Staff Fellowship beginning July 1992 or 1993, for studying drug modulation of human brain function, metabolism and blood flow in relation to aging and disease (e.g. Alzheimer's disease, geriatric depression, Down Syndrome and other retardation), at rest and during cognitive stimulation, using POSITRON EMISSION TOMOGRAPHY (PET). Experience in CLINICAL PHARMACOLOGY AND PHARMACOKINETICS would be very useful. Responsibilities include writing and conducting clinical protocols, and limited clinical care on 8-bed clinical research unit. Position, which is tenure track, is an excellent opportunity for neurologists, psychiatrists, clinical pharmacologists or other clinicians interested in vivo brain imaging and neuropharmacology, who plan a research career. M.D. degree and medical license (ECFMG if foreign physician) required. Fellows work in Laboratory of Neurosciences (S.J. Rapoport, M.D., Chief), National Institute on Aging, Bethesda, MD. Starting salary commensurate with training and experience. For further information, contact:

M.B. Schapiro, M.D., Chief
Brain Aging and Dementia Section
Laboratory of Neurosciences
National Institute on Aging
National Institutes of Health
Building 10, Room 6C-414
9000 Rockville Pike
Bethesda, MD 20892, USA
Tel: 301-496-4754

NIH is an Equal Opportunity Employer
RESEARCH SCIENTIST. Duties: Research uses of company’s permeation facilitator drugs in enhancement of drug permeation through tissue (skin) and in chemo-therapy of brain tumors. Techniques: excise skin from animals and mount onto Franz diffusion cells for treatment with company’s permeation facilitator drugs; col-lect samples from diffusion cells at different time intervals for drug permeation and absorption studies; evaluate drug concentration in diffusion cells and in skin by using high-performance liquid chromatography and radioimmunoassay; microneurovascular excision of brain tumor tissue for evaluation of effects of combinations of company’s permeation facilitator drugs with chemotherapeutic agents and selective hyperthermia; data analysis using biomedical statistics. Requirements: (1) M.D. or equiv-alent. (2) Research experience in developing treatment of brain tumors using chemotherapy and mi-croneurosurgery. (3) Experience in animal surgery. (4) Experience with chemo- and peptide biochemistry. (5) Coursework or experience in biomedical statistics. Forty hours per week, 9:00 a.m. to 5:00 p.m.; $34,000 per year. Submit curriculum vitae to The Phil-adelphia High-Performance Liquid Chromatography Division, 1124 Columbia Street, Seattle, WA 98104. Job offer #4427998.

TECHNICAL MARKETING SPECIALIST

Our success can open the door to a new career for you outside the lab. The key is our knowledge and experience in chemistry, biochemistry or related fields. As a Techni-cal Marketing Specialist, you will provide direct input into new liquid chromatography products and methods for their use. Develop technical literature and promo-tional materials. A degree in technical chemistry and our worldwide sales force. The successful candidate will have a B.S./M.S. or equivalent in biochemistry or related field and related experience with peptide and peptide biochemistry. Experience with chromatography instrumentation in either laboratory or sales/marketing environments is a strong plus. For consideration, please send your resume and a letter of application to Bio-Rad Laboratories, Human Resources, Department 155, 2000 Alfred Nobel Drive, Hercules, CA 94547. Equal Opportunity Employ-er, M/F/H/V.

STAFF SCIENTIST. Fred Hutchinson Cancer Research Center. Applications are invited for a Ph.D.-level position in a well-established transplantation biology laboratory for an investigator with training in basic immunology. Interest and knowledge of cellular immunology, mammalian MHC genes, and molecular immu-nology are essential. Specifically, we are seeking someone to continue immunology work in the setting of canine bone marrow transplantation. This position provides an opportunity to interact in a large, internationally known research group and to perform groundbreaking work in transplantation biology. The position is funded for 4 years. For additional information or to contact the principal investigator(s), please contact the principal investigator(s) at the above address.

RESEARCH SCIENTIST position available in radiation biology/biophysics at Columbia University. Can-didates should be familiar with a variety of in vitro cell culture techniques, DNA and RNA damage and DNA strand break measurement. Preference will be given to persons with experience of radiological physics and advanced particle accelerators. Successful candidates may be eligible for tenure-track after a trial period. Applications should be addressed to: Professor Eric Hall, Director, Center for Radiologi-cal Research, College of Physicians & Surgeons, Co-lumbia University, 630 West 168th Street, New York, NY 10032. An Affirmative Action/Equal Opportu-nity Employer.

NETTUNGS

PROGRAM IN MATHEMATICS AND MOLECULAR BIOLOGY III

COMPUTATIONAL APPROACHES FOR NUCLEIC ACID STRUCTURE AND FUNCTION

Santa Fe, New Mexico, 7 to 11 November 1992. Sessions include: Structure and Function of RNA, Simplified Models of DNA, Structural Theory, Graphics Demonstration, Computation of DNA Structures, Computation of Molecular Evolution. Limited travel funds available and students have priority. Abstract deadline: 15 September 1992. For information contact: PMB 183, Department of Laboratory Physiology, University of California, Berkeley, CA 94720. Fax: 510-642-4071. Sylvija@sylvia.berkeley.edu.

ANNOUNCEMENTS

REQUEST FOR PROPOSALS

RETINAL CELL RESCUE AND TRANSPANTATION

The RP Foundation Fighting Blindness invites proposals for new initiatives directed toward retinal cell rescue and transplantation as a treatment and/or cure for inherited retinal degenerations such as retinitis pigmentosa and allied disorders, Usher syndrome, and macular degeneration. Specific areas of interest are detailed in a recent workshop report. A copy will be provided upon request.

Applications are reviewed by a special panel of consultants to the RP Foundation. They will be judged both on scientific merit and direct relevance. Awards will be made in the range of $50,000 to $80,000 per year for up to 3 years.

Applicants should submit a letter of intent. In it, briefly summarize the proposed research and background of the laboratory, and give an approximate budget. A curriculum vitae of the principal investigator(s) should be included. Following a preliminary review, detailed proposals will be requested from a limited number of applicants. Deadline for letters of intent is 1 June 1992, for applications 11 September 1992. Awards will begin 1 January 1993.

Address letters of intent to: Jeanette S. Felix, Ph.D., Director of Science, RP Foundation Fighting Blindness, 1401 Mt. Royal Avenue, Baltimore, MD 21217. Telephone: 410-225-9400.

RESEARCH INQUIRIES INVITED

The Smokeless Tobacco Research Council, Inc., in-vites inquiries regarding grant applications.

The council sponsors independent research into ques-tions of smokeless tobacco and health. Research support is through a grant of grants-in-aid. Grant applications are evaluated by the Scientific Ad-visory Board to the council and will be judged solely on the basis of scientific merit and relevance.

Deadlines for submission of grant applications are 31 December for 1 July funding and 30 June for 1 January funding. Address inquiries or requests for applications to: The Smokeless Tobacco Research Council, Inc., 420 Lexington Avenue, New York, NY 10170. Telephone: 212-697-3485.

COURSES AND TRAINING

SOMATIC CELL AND MOLECULAR GENETICS WORKSHOP, 12 to 26 July 1992. Intensive, 2- week, "hands-on" introduction to the methodology and concepts of current tissue culture and molecular biology procedures. Also provides basic techniques needed for initiating genome mapping studies. This course is de-signed for established scientists who need to exploit these techniques for their continuing research programs. Reg-istration for: $200. Partial per diem provided. Enrollment limited to 16 students. Applications accepted until 30 April 1992. Applicants should submit a letter describing how the workshop will assist their current research along with curriculum vitae which lists publications (no abstracts) for the past 5 years only, to: Peggy J. Woodson, Somatic Cell and Molecular Genetics Workshop, Eleanor Roosevelt Institute, 1899 Gaylord Street, Denver, CO 80206, telephone: 303-353-4515. The Eleanor Roosevelt Institute is an Equal Opportunity/Affirmative Action Institution and invites and encourages applica-tions from women and minorities. Open to U.S. citizens and permanent residents only.
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