

NEW PRODUCTS

AUTOMATED COMBINATORIAL CHEMISTRY

The automated Solaris 530 Organic Synthesizer can synthesize 48 discrete, small organic molecules in parallel. The instrument features 24-hour unattended operation and built-in reliability. Among the key features of the new instrument are multi-tip, high-precision liquid handling; multiple instrument sensors; a patented, dual-septa synthesis module; and chemist-friendly software. An offline incubation workstation allows multi-user access and staggered synthesis runs to increase throughput.

Perkin-Elmer

For more information call 800-762-6923 or **circle 143** on the Reader Service Card

HOT START DNA POLYMERASE

HotStarTaq DNA Polymerase is for hot start polymerase chain reaction. It minimizes nonspecific amplification, primer-dimer formation, and background. The enzyme is activated only after a 25-min, 95°C incubation, preventing extension of primers that anneal nonspecifically at low temperatures during reaction setup and the initial thermal-cycler heating phase. Thus, all reaction components can be assembled at room temperature.

Qiagen

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LARGE ELECTROPHORESIS APPARATUS

The JumboGel System is a dual-sided gel electrophoresis apparatus that can process two 45-cm wide and 28-cm tall gels simultaneously, with a rotating base to provide easy access to both gels. The 45-cm width accommodates up to 132 samples per gel. JumboGel sharktooth combs are designed with 3-mm point-to-point well spacing to accommodate multi-channel pipettors and greatly increase gel loading efficiency. Specially etched low fluorescence plates allow common pipette tips to fit accurately into troughs on the plate, making alignment easy and eliminating the need for expensive gel-loading pipette tips. The apparatus includes epoxy-coated aluminum

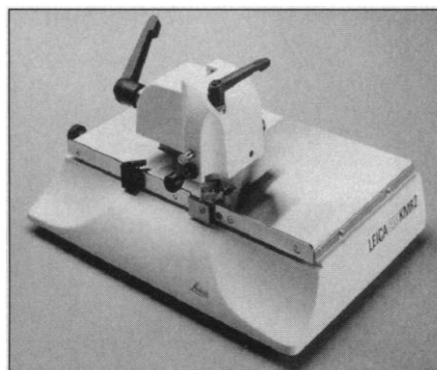
Hitachi Genetic Systems

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heat dispersion plates to reduce gel "smiling." Bar clamps evenly compress the glass plate sandwich to the upper reservoir gasket, allowing combs to receive equal pressure along the entire width and eliminating capillary leakage between samples.

GLASS KNIFEMAKER

The EM KMR 2 glass knifemaker makes use of the balanced break method to produce glass knives for use in ultramicrotomy and for plastic sectioning in light microscopy. The breaking mechanism is located just above the glass so a slow break can be achieved, which is critical for the good quality knives necessary for semi-thin light microscope



Leica

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sections and ultra-thin cryosections. The balanced break method gives a knife angle of 45°, necessary for producing ultra-thin cryosections.

MOUNTING MEDIUM

VectaMount Mounting Medium is a toluene-free, xylene-free, nonflammable, nonhazardous, and odorless formula for permanently preserving tissue sections and cell preparations. It provides optimal mounting for a variety of histological, immunohistochemical, and in situ hybridization applications, retaining the color and intensity of commonly used peroxidase and alkaline phosphatase substrates over time. This permanent mounting medium is compatible with most clearing agents, and, when dry, has an ideal refractive index. When used with the

Vector Laboratories

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BCIP/NBT substrate, crystal formation of the precipitate, which can sometimes occur with other media, is minimized.

RUNONE PRE-CAST GELS

With RunOne Pre-Cast Gels you can run up to 108 samples in as little as 24 min on a gel you can hold in one hand. The gels are multi-channel compatible, so they can be loaded fast. They are available in polyacrylamide or agarose in a variety of concentrations and buffer types.

Embi Tec

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LITERATURE

1998/99 Catalog and Technical Reference for Capillary Electrophoresis Columns and Laboratory Supplies is a comprehensive source of information and products, including a broad selection of wall-coated capillaries with built-in detection windows, various buffer and surfactant combinations, and polyacrylamide gel-filled columns and buffer kits for separations of oligonucleotides, polymerase chain reaction products, and oligosaccharides.

J&W Scientific

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1998 Sigma Signal Transduction Catalog is a 500-page catalog highlighting nearly 2000 biochemicals, antibodies, and other products. Areas covered include apoptosis and cell cycle; calcium signaling; cell stress biology; cyclic nucleotide metabolism; cytokines, growth factors, and hormones; extracellular matrix and adhesion molecules; lipids in cell signaling; microtubule metabolism; monovalent ion channels; nitric oxide metabolism; and protein phosphorylation.

Sigma

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Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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POSITIONS OPEN

A FACULTY POSITION IN BIOMEDICAL ENGINEERING/PHYSICAL MEDICINE AND REHABILITATION Northwestern University, Evanston, Illinois

Northwestern University, one of the pioneer universities in biomedical engineering, seeks a senior-level **ASSISTANT** or **ASSOCIATE PROFESSOR** in the McCormick School of Engineering and Applied Science, with a joint appointment in the Department of Physical Medicine and Rehabilitation in the Medical School. The position will be offered in the tenure track.

Applicants will be expected to hold an earned Doctorate in biomedical engineering or other engineering discipline, and to have a successful record of research, including extramural grant acquisition.

Research is to be centered either in rehabilitation engineering, movement biomechanics, or studies of neurologic or musculoskeletal function and its disorders. The new faculty member will be expected to maintain a distinguished research program and contribute to the teaching of graduate and undergraduate students in both the Engineering and Medical Schools.

Approximately 80 graduate students are pursuing M.S. and M.S.-Ph.D. degrees in biomedical engineering on both campuses, and the Department graduates about 60 students per year in its ABET-accredited undergraduate program.

Applicants should send a letter; curriculum vitae; the names, addresses, and e-mail addresses of four references; and a statement of research interests to: **Dr. W. Zev Rymer, Chair, Biomedical Engineering Search Committee, Room 1406, Rehabilitation Institute of Chicago, 345 East Superior Street, Chicago, IL 60611. Telephone: 312-908-3919; FAX: 312-908-2208; e-mail: w-rymer@nwu.edu.**

More information is available at website: <http://www.nwu.edu/bme> and website: <http://www.nums.nwu.edu>.

The starting date for the position is negotiable. *Women and candidates from underrepresented minority groups are encouraged to apply. Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.*

BIOPHOTONICS/CELL BIOLOGY

Iowa State University invites applications for a **TENURE-TRACK FACULTY POSITION** in the Department of Zoology and Genetics, with the possibility of a joint appointment in the Department of Chemistry. Applications are encouraged from individuals seeking to develop and apply state-of-the-art microscopy approaches to address fundamental questions in cell and molecular biology. This position is part of an ongoing initiative to strengthen interdisciplinary studies between the physical and life sciences, and the successful applicant will play a lead role in the future development of a newly organized Roy J. Carver Laboratory for Ultra High Resolution Biological Microscopy (website: <http://molebio.iastate.edu/carver/home.html>). A competitive salary, excellent research facilities, and generous start-up package are available. The successful candidate will be expected to establish an internationally recognized research program and to contribute to graduate and undergraduate education.

Applicants must hold a Ph.D. or equivalent and should have postdoctoral experience. Please send a curriculum vitae, a statement of research and teaching interests, and arrange for three letters of recommendation to be sent to: **Dr. Philip Haydon, Chair, Biophotonics Search Committee, 339 Science II Building, Iowa State University, Ames, IA 50011. E-mail: pghaydon@iastate.edu.** Deadline for applications is January 15, 1999, or until position is filled. *Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.*

FACULTY POSITION IN DIABETES RESEARCH Columbia University Department of Medicine

ASSISTANT or **ASSOCIATE PROFESSOR** of medicine, M.D. or Ph.D. Applicant should be conducting fundamental research in molecular genetics or cell biology relevant to diabetes. Significant resources available. Please send curriculum vitae to: **Dr. Alan Tall, M.D., Cochair Diabetes Search Committee, Department of Medicine, Columbia University, 622 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

FACULTY POSITION IN CANCER RESEARCH DEPARTMENT OF BIOLOGICAL SCIENCES/CANCER CENTER Purdue University

The Department of Biological Sciences, together with the Purdue Cancer Center and the Walther Cancer Institute, is recruiting an individual at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level to fill one of several planned positions in cancer research at Purdue. Each of these positions will include highly competitive compensation packages, attractive research space, and excellent start-up support. Applicants should have a research program that is focused on aspects of cancer genetics using molecular approaches in a mammalian system. Of particular interest are individuals using transgenic and knockout strategies in the mouse to investigate mechanisms of transcriptional control, tumor suppressor/oncogene function, or differentiation strategies aimed at tumor suppression. Successful candidates should have a Ph.D. in an appropriate discipline, significant postdoctoral experience, and are expected to develop a vigorous, extramurally funded research program and to participate in one of three program areas within the NCI-designated Purdue Cancer Center. The candidate also will have the opportunity to participate in excellent undergraduate and graduate educational and training programs within the Department of Biological Sciences. Applicants should send a curriculum vitae, a statement of research and teaching experience with future research goals, and the names and addresses of three references to: **Stephen Konieczny, Search Committee Chair, Department of Biological Sciences, Purdue University, Lilly Hall of Life Sciences, West Lafayette, IN 47907-1392.** Review of candidates will begin on December 1, 1998, and continue until the position is filled.

Purdue University is an Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITION IN PHYSIOLOGY

The Physiology Department at the University of North Dakota School of Medicine and Health Sciences invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level to begin July 1, 1999. Applicants must have the Ph.D. or M.D. degree with at least two years of postdoctoral experience for the Assistant Professor-level position or at least three years of faculty status and demonstrated success in obtaining federal funding for the Associate Professor-level position. Individuals with proven success applying modern cellular and molecular approaches to physiologically based biomedical research are particularly encouraged to apply. A competitive start-up package and an entirely state-funded salary are available. Teaching at the graduate, postgraduate, and medical school level and participation in collaborative, disease-oriented research will be expected. The possibility of an adjunct appointment, in the research track, in the Department of Surgery exists for individuals with a research focus in vascular biology. Please forward a statement of professional goals including teaching philosophy, a current curriculum vitae, and a list of three potential references with addresses (do not send reference letters at this time), to: **Ms. Faye Aker, Administrative Clerk, Department of Physiology, University of North Dakota School of Medicine and Health Sciences, 501 North Columbia Road, Grand Forks, ND 58202-9037.** Initial screening of applications will begin December 15, 1998, and continue until the position is filled. *The University of North Dakota is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS/VISION RESEARCH

Saint Louis University, an institution in the Catholic Jesuit tradition dedicated to education, research, and health care, is seeking applicants for tenure-track faculty positions at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Preference will be given to individuals with expertise and a strong publication record in molecular, biology/genetics, cell biology, or physiology. Current federal grant support and academic experience are desirable. Send curriculum vitae and brief statement of research interests to: **Steven J. Fliesler, Ph.D., Faculty Search Committee Chair, Saint Louis University Eye Institute, Saint Louis University School of Medicine, 1755 South Grand Boulevard, St. Louis, MO 63104-1540. E-mail: fliesler@sul.edu.** *Saint Louis University is an Affirmative Action/Equal Opportunity Employer, and encourages nominations of and applications of women and minorities.*

**Meharry Medical College
School of Medicine
Research Centers in Minority Institutions (RCMI) and the
Department of Biochemistry**

A **FACULTY POSITION** is available in 1998/1999 at the **Assistant Professor or Associate Professor** levels in the area of **Cell Signaling**, which has been targeted for expansion at the College. Initial funding for these positions is provided by an NIH-funded RCMI program at the College and support from the School of Medicine.

Recruitment of one individual is expected, to join investigators studying cell signaling at the institution. **We are seeking a scientist who merits primary appointment in the department of biochemistry.** Joint appointments in clinical or other basic science department may be possible. Preference will be given to an applicant who has an interest that complements one of our clinical science departments. Selected individuals must have potential or demonstrated competence in the use of molecular biological or biophysical approaches to conducting research in cellular signaling and must also be capable of, and committed to making significant contributions to the teaching and administrative functions of the department. Successful applicant will be expected to develop/maintain a funded research program of high quality and to substantially participate in the graduate and professional (medical, dental, and applied health) school teaching programs of the department of biochemistry or other appointing department. He or she will also be required to participate in the further development of molecular neuroscience at the College. Applicants should send curriculum vitae, a statement on teaching interests, names of four individuals who may be contacted for reference, and a summary (not exceeding four pages) of potential research project(s) to either: **Samuel E. Adunyah, Ph.D., Chairman of Biochemistry, or George Hill, Ph.D., RCMI Program Director, and Vice President for Research, (both at) Meharry Medical College, 1005 D.B. Todd Blvd., Nashville, TN 37208.** Applications will be evaluated by the search committee appropriate for the targeted area of cell signaling as well as by the Biochemistry Department.

*Meharry Medical College is an
Equal Opportunity/Affirmative Action Employer.*

**The University of Illinois at Urbana-Champaign
School of Molecular & Cellular Biology
Faculty Position, Rank Open,
in Cellular Neurobiology**

The School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign invites applications for a full-time, tenure-track faculty position in Cellular Neurobiology at the Assistant, Associate, or Full Professor level. The starting date for the position is August 1999. Appointment at the Assistant Professor level requires a doctoral degree, postdoctoral experience, and evidence of outstanding research potential. Appointees at this level will be expected to develop a vigorous, independently funded research program. Appointment at higher levels requires evidence of outstanding research accomplishments including extramural funding and national recognition. Appointees at all levels will be expected to contribute effectively to undergraduate/graduate teaching. Laboratory facilities, substantial start-up funds, and a salary commensurate with experience will be provided. The University of Illinois at Urbana-Champaign offers a highly interactive, interdisciplinary research environment, which includes a dynamic campus-wide Neuroscience Program, as well as the Beckman Institute and other state-of-the-art research support facilities. This search is part of a multi-year commitment by the University for significant growth in the biological sciences. Urbana-Champaign offers the residential advantages of a medium-sized university city, excellent cultural opportunities, and easy access to Chicago and St. Louis. Information concerning the University can be found at <<http://www.uiuc.edu/>>. Applicants should submit a curriculum vitae with a complete list of publications and a summary of research interests and future plans, and should arrange to have at least 3 letters of reference sent to: **Neurobiology Search, School of Molecular and Cellular Biology, University of Illinois at Urbana-Champaign, 393 Morrill Hall, 505 S. Goodwin Ave., Urbana, IL 61801.**

To ensure full considerations, applications should be received by December 15, 1998. Interviews may be conducted before the closing date but no final decisions will be made before that time.

*The University of Illinois at Urbana-Champaign is an Affirmative
Action, Equal Opportunity Employer.*



Mitte Endowed Chair in Cancer Research

Southwest Texas State University seeks to fill an Endowed Chair in Cancer Research. The successful applicant will be an internationally recognized scientist utilizing nonmammalian models to investigate the basic mechanisms of carcinogenesis. Desired qualifications include a distinguished publication record, a track record of extramural research funding, and professional standing commensurate with an appointment as a tenured professor within the Department of Chemistry and Biochemistry or Biology. SWT houses the *Xiphophorus* Genetic Stock Center, and candidates whose research draws on this important resource are particularly encouraged to apply.

SWT, a state university with an enrollment of 21,000, is located in the beautiful Texas Hill Country between Austin and San Antonio. This ideal location offers an excellent quality of life and is in close proximity to several regional research foundations and academic institutions, providing ample opportunity for research collaborations.

Applicants should send a CV, list of five references (with e-mail addresses), and a short summary of research plans to:

**Prof. C. J. Carrano
Chair, Mitte Search Committee
Southwest Texas State University
Department of Chemistry
601 University Drive
San Marcos, TX 78666**

Review of applications will begin Dec. 8, 1998, and will continue until the position is filled. *SWT is an EO/AA Employer.*

**The University of Illinois at Urbana-Champaign
School of Molecular & Cellular Biology
Two Faculty Positions, Rank Open
Structural Biology**

The School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign invites structural biologists to apply for two faculty positions in the School that will be available August 1999. Preference will be given to scientists working in areas at the frontier of structural biology and research problems of deep biological significance. Applicants with experience in all structural biology approaches, including X-ray crystallography, NMR spectroscopy, electron microscopy, scanning probe microscopy, and novel light microscopies are encouraged to apply. The positions are full-time and, depending on qualifications, may involve an appointment at the Assistant, Associate, or Full Professor level. Appointment at the Assistant Professor level requires a doctoral degree, postdoctoral experience, and evidence of outstanding research potential. Appointees at this level will be expected to develop a vigorous, independently funded research program. Appointment at higher levels requires evidence of outstanding research accomplishments including extramural funding and national recognition. Laboratory facilities, substantial start-up funds, and a salary commensurate with experience will be provided. The University of Illinois at Urbana-Champaign offers a highly interactive and interdisciplinary research environment plus world-renowned state-of-the-art research support facilities and proximity to the Advanced Photon Source. The University is committed to significant future growth in the biological sciences. Urbana-Champaign offers the residential advantages of a medium-sized university city, excellent cultural opportunities. Information concerning the University can be found at <<http://www.uiuc.edu/>>. Applicants should submit curriculum vitae with a complete list of publications, summary of research interests and future plans, and arrange to have four letters of reference sent to: **Structural Biology Search, School of Molecular and Cellular Biology, University of Illinois at Urbana-Champaign, 393 Morrill Hall, 505 S. Goodwin Ave., Urbana, IL 61801.**

To ensure full consideration, applications should be received by Dec. 15, 1998. Interviews may be conducted before the closing date but no final decisions will be made before that time.

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POSTDOCTORAL POSITIONS IN VERTEBRATE DEVELOPMENTAL BIOLOGY

National Institute of Arthritis and
Musculoskeletal and Skin Diseases
National Institutes of Health

Positions are currently available in the Craniofacial Development Section of the Bone and Connective Tissue Biology Branch, NIAMS, NIH to study the molecular and cellular etiology of inherited disorders affecting the craniofacial skeleton. The fellows will utilize culture systems or animal models to manipulate signaling in the BMP and/or FGF pathways. Candidates must have a Ph.D., M.D. or DDS degree and less than two years of postdoctoral experience with course work/experience in developmental biology, cell biology, biochemistry, genetics, and molecular biology. Previous training in mouse molecular genetics is desirable but not essential. Competitive salary and loan repayment programs available. Send letter of intent, CV and the names of three references to H.C. Slavkin, re: Postdoc Position, Craniofacial Development Section, NIAMS, NIH, Bldg 6 Rm 324 6 CENTER DR MSC 2745, Bethesda MD 20892-2745 or email:gn18s@nih.gov.

NIH is an Equal Opportunity Employer

Faculty Positions Department of Human Genetics

A new Department of Human Genetics has been established at the University of Chicago, chaired by David H. Ledbetter, Ph.D. Strengths of the university genetics community include outstanding programs in cancer genetics, molecular cytogenetics, complex disease analysis, evolution and population genetics. We are recruiting tenure-track faculty in broad areas of human genetics research, including (but not limited to) neurogenetics, cancer genetics, chromosome structure/function, and computational or experimental genomics. State-of-the-art research space is located in the new Institute for Molecular Medicine and generous start-up funds are available. Applicants must have a demonstrated ability to develop an independently funded research program of the highest caliber. Positions are open to Ph.D., M.D., or M.D.-Ph.D. candidates. Individuals with ABMG board certification or eligibility are encouraged to apply. Although the search is primarily aimed at Assistant Professor level scientists, appointments at other levels, including senior appointments will be considered.

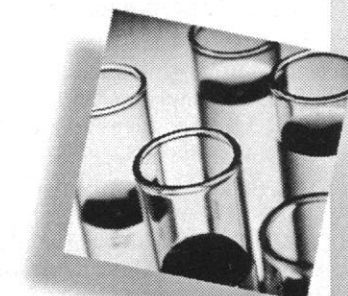
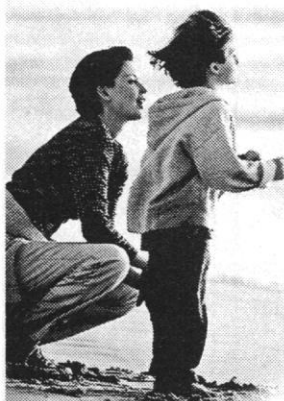
Interested applicants should send curriculum vitae, a short summary of research plans, and the names of three references to: Chair, Human Genetics Search Committee, Department of Human Genetics, The University of Chicago, 924 East 57th Street, JFK R-110, Chicago, IL 60637. <http://www.genes.uchicago.edu>

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U.S. Corporate Headquarters located in Research Triangle Park, N.C.

POSTDOCTORAL FELLOW Metabolic Diseases

Working within the Metabolic Diseases Department, the successful candidate will be involved in the study of metabolic processes, both *in vitro* and *in vivo*. This position requires a Ph.D. in Biochemistry, Cell Biology or a related discipline, with an interest in all cell biology/metabolism, and skills in molecular biology and/or cell biology. Must be self-motivated, innovative, exhibit excellent oral/written communication skills, and be able to work in a cooperative team environment. Computer skills are highly desirable. Please refer to Job #ASC5871-2 on all resumes.

POSTDOCTORAL FELLOWS Molecular Endocrinology

Openings are available within the Molecular Endocrinology Department for individuals to study the biology of orphan nuclear receptors, such as the peroxisome proliferator-activated receptors and pregnane X receptors. A strong background in molecular biology and the ability to work in a team environment are required. Please refer to Job #ASC6004-2 on all resumes.

SCIENTISTS Bioanalysis & Drug Metabolism (BioMet)

Openings are available for talented Scientists to contribute to drug candidate selection and development. Successful candidates will join a team of approximately 125 scientists that influence the entire spectrum of drug discovery and development from early discovery research to post-marketing bioanalysis.

BIOANALYSTS: Opportunities for Chemistry or Biology graduates who have a strong background in analytical chemistry. Duties will include developing and performing bioanalytical measurements of drugs, metabolites, and surrogate markers in human and animal specimens. This work is performed in a highly automated environment requiring ability to learn and apply computer-based skills and technology. Please refer to Job #ASCBIOJET-1 on all resumes.

DRUG METABOLISM SCIENTISTS: Openings for Chemistry or Biology graduates to apply their knowledge of chemistry, biology and mathematics to uncover the metabolic fate and body distribution of drugs under development. Experience with cell culture, autoradiography, mass spectrometry or tissue culture will be considered an asset. Please refer to Job #ASCBIOJET-2 on all resumes.

SENIOR SCIENTISTS: Openings exist for Ph.D. level Scientists or those with equivalent experience in the areas of mass spectrometry of biological matrices, chemo-bio informatics, drug metabolism and pharmacokinetics/pharmacodynamics. Experience in pharmaceutical product development will be considered an asset. Please refer to Job #ASCBIOJET-3 on all resumes.

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Postdoctoral Opportunities St. Louis University School of Medicine

The Edward A. Doisy Department of Biochemistry and Molecular Biology is a highly interactive multidisciplinary department comprised of 17 faculty members. Several laboratories have positions or potential positions for outstanding postdoctoral candidates.

J. A. Corbett	β -cell damage in autoimmune diabetes
C. Coscia	Opioid signal transduction in the brain
J. C. Eissenberg	Chromatin structure and epigenetics
D. A. Ford	Biochemical mediators of ischemic injury
T. Heyduk	Initiation by <i>E. coli</i> RNA polymerase
J. K. Lodge	Virulence determinants in pathogenic fungi
A. Shilatiffard	Regulation of elongation by RNA Pol II
W. S. Sly	Transgenic mouse models of human disease

For further information see our web page at <http://biochemweb.slu.edu/> or contact individual faculty members at (314) 577-8131. Those positions require a Ph.D. or an M.D. To apply, send a CV and the names, phone numbers, and e-mail addresses of three references to:

Joyce Williams
Department of Biochemistry and Molecular Biology
St. Louis University School of Medicine
1402 S. Grand Blvd.
St. Louis, MO 63104

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BIOINFORMATICS PROGRAMMER

As a vital member of the Molecular Informatics group, you will collaborate with bioinformatics colleagues to develop data mining algorithms and computer programs to mine DNA and expression data. You will also integrate bioinformatics applications and databases into a corporate bioinformatics project management system. Requirements are an MS, or equivalent, in biological or physical sciences and 2-3 years experience developing scientific applications in an industrial setting. Demonstrated expertise in developing scientific applications in C, C++ and Java under UNIX and web environments is essential. The ideal candidate must also be technically flexible and comfortable with rapid prototyping, and possess excellent interpersonal, problem solving and independent work skills. Familiarity with CORBA and relational databases is a plus.

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Visit our website at www.berlex.com

BERLEX

THE BEST IS YET TO COME

The University of New Orleans and the Audubon Institute announce the Freeport McMoRan, Inc. Endowed Chair for the Study of Conservation of Endangered Species



The University of New Orleans invites nominations and applications for the Freeport-McMoRan, Inc. Chair in Conservation Biology. The successful candidate will have research experience in the conservation of terrestrial mammals or birds with emphasis on enhancement of reproduction and the transfer of laboratory techniques to field situations.

The Freeport-McMoRan, Inc. Chair in Conservation Biology will establish a dynamic research program on reproduction and preservation of wild species, particularly those with endangered status. The Chair will be appointed to the faculty in the Department of Biological Sciences at the University of New Orleans and will participate in its teaching program and in the direction of graduate students. Research will be conducted at the nearby Audubon Center for Research of Endangered Species (ACRES), a new state-of-the-art research facility.

Candidates should have credentials appropriate for appointment at the rank of Professor, but exceptional candidates at the rank of Associate Professor will also be considered. For more information, see <http://www.uno.edu/~bios>.

Send nominations or applications including curriculum vitae, statement of research interests, and contact information for five references by January 4, 1999, to:

Endowed Chair Search Committee
Department of Biological Sciences
University of New Orleans
New Orleans, LA 70148

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



ENVIRONMENTAL MICROBIOLOGIST

The Savannah River Technology Center of the Westinghouse Savannah River Company has an immediate opportunity for an Environmental Microbiologist at the Fellow Scientist level (PhD plus several years postdoctoral experience) to lead an innovative environmental biotechnology group within the Savannah River Technology Center.

The qualified individual will manage a multidisciplinary team of Scientists and Engineers with programs associated with in situ and ex situ bioremediation of groundwater and vadose zone contamination, microbial ecology, environmental biotechnology, and sensors at the U.S. Department of Energy's Savannah River Site.

Position requires PhD with experience in microbiology or environmental biotechnology. Fermentation microbial ecology and chemical engineering, while not essential, will greatly benefit the applicant. Individual should have strong interpersonal and organizational capabilities and a proven publication record. The successful applicant should be focused on solving environmental industrial problems through innovative research and development activities, as well as developing a niche of innovative research addressing DOE's environmental management needs.

U.S. Citizenship required. Letter of interest, resume, and names of three references are required for application. Please send to: Westinghouse Savannah River Company, Staffing, Attention: Lamar Cherry, Building 719-4A, Aiken, SC 29808. FAX (803) 725-8781, Email: lamar.cherry.srs.gov

Westinghouse

An Equal Opportunity
Employer



Postdoctoral Fellowship at NIH HIV Research

A postdoctoral position is available for molecular studies on replication of HIV and other mammalian retroviruses. Research projects include functional analysis of reverse transcriptase; the role of host or other viral proteins, such as the nucleocapsid protein, in reverse transcription; and investigation of virus assembly. Studies are performed with model systems and HIV-infected cells. Applicants should have a strong background in molecular biology and either protein biochemistry or virology, and have less than five years of postdoctoral experience. Please send a curriculum vitae, bibliography, and the names and addresses of three references to:

**Dr. Judith G. Levin, Chief
Section on Viral Gene Regulation,
Laboratory of Molecular Genetics,
NICHD, Building 6B, Room 216, NIH
Bethesda, MD 20892
Fax: (301) 496-0243
E-mail: judith_levin@nih.gov
Website: <http://dir.nichd.nih.gov/lmg/svgr/index.htm>**

NIH is an Equal Opportunity Employer.

Novel Prostate Cancer Markers

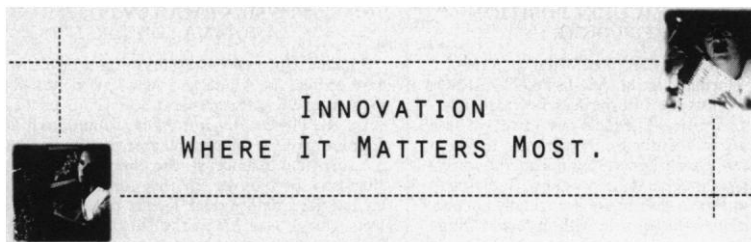
Mount Sinai School of Medicine leads the way in medical education and research. Under the leadership of a new Dean, we are in the midst of substantial growth in all of our research and core facilities. This provides a unique opportunity for a dedicated professional.

**Mount
Sinai**

A postdoctoral position is available for work on a recently funded project, involving cloning and characterization of clinically relevant protein markers specific for various stages of prostate cancer in men. Our investigation of prostate cancer markers involves both a molecular cloning approach recently developed in our lab, and cooperation with basic scientists and clinicians at Mount Sinai School of Medicine. This collaborative approach to basic/clinical research is typical of the highly interactive atmosphere at this institution located in an attractive neighborhood adjacent to Central Park.

Recent Ph.D.s or M.D.s with a solid background in biochemistry/molecular biology will be given preference. Interested candidates should send CV and names, addresses, and phone numbers of three references to: **Carter Bancroft, Ph.D., Box 1218-NPCM, Department of Physiology and Biophysics, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. Fax: 212-860-3369. E-mail: cbancro@smtpink.mssm.edu** Visit our website at: www.careermosaic.com/mountsinai We are an equal opportunity employer fostering diversity in the workplace.

Mount Sinai School of Medicine



When it comes to improving people's lives, there are no shortcuts. That's why at Johnson & Johnson we give it our all. 100% of the time. It's a business philosophy that's led to our being awarded the National Medal of Technology. And one that's helped us set new standards of excellence for our industry and our people.

ORTHO BIOTECH

Raritan, NJ

Scientist/Senior Scientist—Mammalian Cell Culture

In this position, you will assume responsibilities for Ortho Biotech laboratory activities supporting the development and transfer of process improvements related to large scale production of mammalian cell culture. As the technical liaison between the biopharmaceutical manufacturing function and R&D, you will manage activities related to optimizing media development, cell banking, inoculum and cell culture engineering of large-scale GMP production.

To qualify, you must have a Ph.D. in Molecular Biology, Biochemical Engineering, or a related discipline, experience in cell culture optimization for different mammalian cell lines; and/or management experience in the technology transfer of all aspects of Mammalian Cell Culture process development (scale-up, GMP cell banking, glycosylation, media/inoculum development, yield and cost improvement). In addition, you must demonstrate a strong working knowledge of technology evaluation of commercial scale production of recombinant proteins/monoclonal antibodies (following current GMP and FDA regulations), and excellent written and oral communications skills. (Recent doctoral program graduates with research experience in cell culture optimization for mammalian cell lines are encouraged to apply.)

Dept. 2533.



THE J. W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

Raritan, NJ

Scientist/Senior Scientist— R&D Analytical Development

In this position, you will perform formulation support, stability studies and impurity profiling/degradation chemistry of drug substances and products for RWJ PRI. In addition to developing and validating analytical methods, you will also maintain and calibrate instrumentation and equipment, ensure the laboratory meets GLP/GMP guidelines and safety policies, and represent the analytical function on technical project teams.

To qualify, you must have a Ph.D. in Chemistry and at least three years' industrial experience. Along with a working knowledge of chromatography and spectroscopic methods of chemical analysis (HPLC, GC), a strong background in organic and analytical chemistry is required. The ability to work independently and in a team environment, and to communicate effectively is necessary. Previous experience with both small molecules and biologicals is desired.

Dept. 2534.

Ranked consistently by *FORTUNE* as one of "America's Most Admired Companies" and by *Working Mother* as one of the "100 Best Companies for Working Mothers", Johnson & Johnson offers competitive salaries and a full array of benefits including medical/dental, 401(k) and pension plan and a comprehensive wellness program.

For consideration, we strongly encourage individuals to apply on-line at:

www.jnj.com

If you do not have Internet access, please forward a scannable resume, noting the appropriate department code and salary requirement, to: **Dept. # of position of interest, Johnson & Johnson Recruiting Services, PO Box 16597, New Brunswick, NJ 08906-6597.** An equal opportunity employer, m/f/d/v, committed to diversity in the workplace.

Johnson & Johnson

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION VISION RESEARCH

Applications and nominations are invited for a tenure-track faculty appointment at the **ASSISTANT/ASSOCIATE PROFESSOR** level in the Eye Research Institute of Oakland University. The ideal candidate will have at least three years of postdoctoral experience in vision research and possess external grant funding and be able to establish a vigorous independent program. Individuals with an interest in retinal disease are particularly encouraged to apply. Salary is negotiable with excellent fringe benefits.

The faculty of the Eye Research Institute engages in full-time research on the biochemistry, physiology, and molecular biology of the cornea, lens, retina, and intraocular fluids with good opportunities for collaboration. The faculty also conducts clinical research with the affiliated Department of Ophthalmology of William Beaumont Hospital. The Institute has an NIH Core facility in electron microscopy and tissue culture, and a new animal care facility.

Oakland University is a state-supported institution situated on a 1,400 acre campus, 25 miles north of Detroit, with an enrollment of 14,400 students in baccalaureate and graduate programs.

Review of applications will begin January 15, 1999, and continue until the position is filled. Applicants should send a curriculum vitae, three to five reprints, and the names of three references to: **Frank Giblin, Ph.D., Chair, Search Committee, Eye Research Institute, Oakland University, Rochester, MI 48309-4480.**

Oakland University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

TWO FACULTY POSITIONS

Northern Illinois University anticipates two tenure-track positions for fall 1999. (1) **ASSISTANT or ASSOCIATE PROFESSOR** in molecular evolution. A Ph.D. and postdoctoral research experience are required. The successful candidate is expected to develop a vigorous, externally funded research program, direct graduate (M.S. and Ph.D.) students, and teach a course in molecular evolution and introductory courses for majors and non-majors. The candidate's expertise should complement the existing program in biological sciences, employing modern molecular methods to address fundamental evolutionary or systematic questions at any level of organization.

(2) **ASSISTANT PROFESSOR/TEACHER CERTIFICATION ADVISOR**. Ph.D. is required. Research area in the biological sciences is open, but should complement the departmental faculty research programs. Successful biology teaching experience in public middle/high school is required. The successful candidate is expected to direct the departmental Teacher Certification Program, direct graduate students, and develop a vigorous research program. Duties include a course in teaching methods in biology, coordinating clinical experience supervisors, and advisement of certification students.

Send a letter of interest, curriculum vitae, brief statements of research and teaching goals, and three letters of reference by January 8, 1999, to: **Dr. Patricia Vary, Chair, Department of Biological Sciences, Northern Illinois University, DeKalb, IL 60115-2861.** Website: <http://www.bios.niu.edu>; Telephone: 815-753-1753; FAX: 815-753-0461; e-mail: biojobs@niu.edu. *Affirmative Action/Equal Employment Opportunity.*

FACULTY POSITION IN MICROBIOLOGY

The Biology Department at the University of Colorado at Denver, with 550 undergraduate majors and 25 Master's students, invites applications for a full-time, tenure-track **MICROBIOLOGIST** at the **ASSISTANT PROFESSOR** level, contingent upon budgetary approval. Specialization is open; evolutionary or environmental microbiology preferred. Experience with molecular biology techniques essential. Teaching responsibilities (two courses per semester) include microbiology and courses in applicant's specialty. An independent research program involving undergraduate and graduate students is expected. Ph.D., teaching experience, and postdoctoral research experience required. Send curriculum vitae, statements of research and teaching interests, and three letters of reference to: **Biology, Campus Box 171, P.O. Box 173364, Denver, CO 80217-3364.** Application review begins 11 January 1999 and continues until filled; Colorado Open Records Act applies. *Equal Employment Opportunity.*

POSITIONS OPEN

PHYSICS FACULTY POSITION INDIANA UNIVERSITY

Indiana University is establishing a new interdisciplinary center, the Linda and Jack Gill Center for Instrumentation and Measurement Science. Over the next few years, the Physics Department is planning to make several appointments in the general area of instrumentation and measurement science at the interface of physics with chemistry or biology. In this context, applications are invited for a tenure-track faculty position in the Physics Department available in the fall of 1999. We seek outstanding candidates with demonstrated ability to initiate and lead a vigorous and innovative program of interdisciplinary research. We are especially interested in individuals with experience in scanning-probe and imaging methods and/or optical-trapping and manipulation techniques. However, candidates with expertise in other experimental or theoretical subfields are also encouraged to apply. An appointment at a more senior level, including an Endowed Chair, could be considered for a truly exceptional candidate. Each application should include a curriculum vitae, a description of research interests and accomplishments, and a list of publications. Candidates should also have at least three letters of reference sent to: **Faculty Search Committee, c/o Professor Alan Kosteletzky, Chair, Department of Physics, Swain Hall West 117, Indiana University, Bloomington, IN 47405 USA.** Applications received before February 1, 1999, may receive preference. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

TWO FACULTY POSITIONS AVAILABLE

The Department of Biochemistry and Molecular Biology and the Institute for Genetic Medicine (IGM) at the University of Southern California (USC) School of Medicine in Los Angeles, California, has openings for two exceptional new Investigators at the **ASSISTANT PROFESSOR** level (tenure-track). Candidates should have a Ph.D. or M.D. degree with at least two years of postdoctoral experience and an exceptional publication record. We are seeking individuals who apply modern molecular techniques to the investigation of fundamental problems in the biomedical sciences. We wish to complement the IGM's existing faculty who have research interests in genetics and molecular genetics of cancer, cellular differentiation, mammalian development, and gene therapy. The appointment includes competitive salaries and generous start-up packages funded in part by a grant from the Howard Hughes Medical Institute and new research space in the dynamic and newly remodeled state-of-the-art interactive IGM Collaboratories. Candidates should forward their curriculum vitae, three letters of recommendation, two or three representative research publications, and a brief statement of future research plans to: **Dr. Laurence Kedes, Director, Institute for Genetic Medicine, University of Southern California School of Medicine, 2050 Alcazar Street, Los Angeles, CA 90033.** *The University of Southern California is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS BIOCHEMISTRY UNIVERSITY OF UTAH

The Department of Biology at the University of Utah seeks applicants for two tenure-track faculty positions, at the **ASSISTANT PROFESSOR** level, in the general area of biochemistry. We hope to appoint individuals who can contribute to both the research and teaching activities of a department with unusually broad interests, ranging from biochemistry to ecology. Research areas of interest for these appointments include, but are not limited to, macromolecular structure and dynamics, enzymology, signal transduction, metabolism/biophysical chemistry, and membrane biochemistry. The new faculty will contribute to teaching biochemistry at both the undergraduate and graduate levels, including participation in new undergraduate courses being developed in conjunction with the Department of Chemistry. Please submit curriculum vitae, descriptions of research interests and teaching interests, and three letters of reference to: **Biochemistry Search Committee, Department of Biology, University of Utah, 257 South 1400 East, Salt Lake City, UT 84112-0840.** Preference will be given to applications received by December 31, 1998.

The University of Utah is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.

FACULTY POSITIONS MICROBIOLOGY UNIVERSITY OF UTAH

The Department of Biology at the University of Utah seeks applicants for two tenure-track faculty positions at the **ASSISTANT PROFESSOR** level in the general area of microbiology. We are particularly interested in someone with a broad interest in microbes, working with bacteria or *Archaea*. Research specialties could include, but are not limited to, enzymology/metabolism, physiology, genetics, cell biology, evolution, or ecology. In addition to developing a strong research program, the successful candidates will organize and help teach new undergraduate and graduate courses in microbiology. The Biology Department at Utah has interests ranging from biochemistry to ecology, so we are especially interested in candidates with an ability to interact productively with a wide range of Biologists and an enthusiasm for undergraduate education. Please submit curriculum vitae, descriptions of research interests and teaching interests, and three letters of reference to: **Microbiology Search Committee, Department of Biology, University of Utah, 257 South 1400 East, Salt Lake City, UT 84112-0840.** Preference will be given to applications received by December 31, 1998.

The University of Utah is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.

DePaul University is seeking a person to help develop and implement a new B.S. degree in food science. The ideal candidate will have a Ph.D. in some area of biology, chemistry, or a related field; academic experience including research, teaching, and administration; and experience working with the food science industry. This position is well-suited for a senior academic person interested in the challenge of starting a new program, or someone currently in industry but with suitable academic credentials and experience. The successful candidate will work with our science faculty and members of the food science industry in Chicago to continue developing a plan for this new program and to oversee its implementation. The new **FACULTY MEMBER** will be a member of the department most closely related to his or her academic discipline; the position will carry **TENURE-TRACK** or **TENURE** status. Rank, salary, and teaching responsibilities are negotiable. Please send letter of intent, including a description of relevant experience; curriculum vitae; statement of teaching and research interests; statement of educational philosophy; and the names of three references to: **Dr. Carolyn C. Narasimhan, Associate Dean, College of Liberal Arts and Sciences, DePaul University, 2320 North Kenmore Avenue, Chicago, IL 60614.** Review of applications will begin January 4, 1999, and will continue until the position is filled. Additional inquiries to above address, or FAX: 773-325-7304; e-mail: cnarasim@wpdpost.depaul.edu. *DePaul University is committed to diversity and equality in education and employment.*

The Department of Biological Sciences at Florida Institute of Technology invites applications for **FACULTY POSITIONS** in (i) developmental biology and (ii) mammalian physiology effective August 1999. Rank is open. Senior candidates will be expected to have attained national and international stature. Developmental biology: preference will be given to individuals using molecular genetics approaches to study important topics in developmental biology of eukaryotic organisms. Mammalian physiology: all areas of physiology will be considered; however, we are especially interested in the application of molecular biology to problems related to human disease. A Ph.D., postdoctoral experience, and evidence of accomplishments in research and teaching are required. Successful candidates will develop a research program with extramural funding, direct graduate research, and participate in undergraduate and graduate teaching. Construction of a new laboratory facility will provide opportunities for innovative new or established Investigators who can contribute strong research programs in an interactive environment. Send a curriculum vitae, statement of teaching and research interests, and three letters of recommendation to: **Dr. G. N. Wells, Chair, Developmental Biologist/Physiologist Search Committee, Department of Biological Sciences, Florida Institute of Technology, 150 West University Boulevard, Melbourne, FL 32901.** *The Florida Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

Laboratory Chief, NIAID, NIH

The National Institute of Allergy and Infectious Diseases (NIAID), NIH, seeks an individual to head the Laboratory of Immunogenetics, which is located at the Twinbrook Facility in Rockville, Maryland and is a component of the NIAID Division of Intramural Research. This position requires an M.D., Ph.D., or equivalent with proven leadership abilities and a strong independent research program. Preference will be given to candidates with research interest in immunology, immunogenetics or infectious diseases and those whose program complements other research programs currently in the laboratory. The Laboratory Chief will have independent resources to conduct their research and will supervise other Principal Investigators with independent research programs. A Laboratory Chief in the Division of Intramural Research is equivalent to a Department Head in a University or Medical School. *Applicants must be U.S. citizens or permanent residents.* Salary depends on degree and qualifications and ranges up to \$151,800.

Interested persons may contact **Dr. Karyl Barron**, Deputy Director, DIR, NIAID at (301) 402-2208 or [kbarron@nih.gov] for additional information about the position. A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interests and selected publications must be submitted by December 31, 1998, to: **Ms. Melissa Keller, Office of Human Resources Management, NIAID, Building 31, Room 7A20; 31 Center Drive, MSC 2520, Bethesda, MD 20892-2520.** Please reference vacancy announcement number AI-98-110.

NIH is an Equal Employment Opportunity Employer.

U.S. Environmental Protection Agency Office of Research and Development

EPA is seeking a highly qualified scientific leader for the position of Division Director, Human Studies, National Health and Environmental Effects Research Laboratory. The division is housed in the EPA Human Studies Facility on the campus of the University of North Carolina, Chapel Hill, NC. This division provides critical human data and mechanistic information needed to improve the scientific basis for health risk assessment to better support environmental decision making by the Agency. The successful candidate will plan, develop, organize, direct, and implement multimillion dollar research programs.

This division conducts a multidisciplinary research and development program in the broad area of human health effects of environmental pollutants. Areas of specialization include:

- development of methods and conduct of studies to identify and quantify the effects of environmental pollutants on humans.
- development/application of approaches to estimate directly human exposure and dose or through the application of validated biomarkers.
- conduct of mechanistic research (*in vivo* and *in vitro*) for the development of pharmacokinetic and biologically based dose response models.

To meet the requirements of this position, applicants must have a Bachelor's (or higher) degree in one of the following: biological, medical, engineering, or physical sciences (advanced degree preferred, but not required). Preferred candidate would possess recognized scientific expertise as evidenced by multiple publications in peer-reviewed literature and invitations to participate in national and international meetings/panels. Candidates must also have competence and substantive specialized (scientific, administrative, or managerial) experience in a type of work or a combination of functions directly related to this position. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. Salary will be commensurate with level of appointment in the federal Senior Executive Service. To obtain a copy of the vacancy announcement for this position, call or write to: **USEPA/OARM/OHROS/SES Human Resources Staff (3641), 401 M Street S.W., Washington, DC 20460.** The telephone number is 202-260-6374. Request announcement number EPA-9-SES-ORD-6136 or you may download a full text announcement via Internet at www.usajobs.opm.gov. Applications must be postmarked by the closing date January 15, 1999.

EPA is an Equal Opportunity Employer.

The Science of Agricultural Genetics

RESEARCH MANAGER (#983328)

Pioneer's Analytical Biochemistry Department is seeking a motivated individual to manage the Regulatory Science/Assay Validation Group within Protein Biochemistry. The Manager will work closely with Pioneer Regulatory Affairs to determine appropriate study plans and coordinate research activities in support of product registration/approval applications. This individual will have overall responsibility for regulatory studies including the conduct of the study, interpretation, analysis, documentation, and reporting of results and will ensure GLP compliance of studies. The successful candidate will also interact with the Protein Biochemistry group by contributing to the development of validation and statistical QC parameters and by developing and managing SOPs. We are seeking an individual with a Ph.D. in biological sciences or biotechnology subject area plus at least 5-7 years appropriate research/supervisory experience including knowledge and implementation of GLP guidelines. Excellent working knowledge of immunoassay and protein biochemistry is important. Working knowledge of nucleic acid analysis and transgenic plants useful.

POST-DOCTORAL RESEARCH ASSOCIATE, DISCOVERY RESEARCH (SCI-PHD)

Post-doctoral position in plant molecular biology/protein biochemistry is available immediately to head a project on molecular and cell-biological aspects of protein deposition in plant tissues. The emphasis of this project will be the role of proteolytic processes for protein processing, protein deposition and protein turnover and its relationship to the stability of transgenically expressed proteins. The successful candidate will have access to extensive Pioneer genome databases and will have the opportunity to exploit these databases for his/her research using state-of-the-art genomics and proteomics tools. Ph.D. in molecular biology, biochemistry or cell biology with experience in recombinant DNA techniques, protein isolation and characterization is required. Prior experience with subcellular fractionation and proteolytic enzymes is desirable. Good computer skills are very important. Experience in bioinformatics is a big plus. Strong communication skills are essential, as the successful candidate is expected to present and to publish research findings.

SENIOR RESEARCH ASSOCIATE (SCI-SRA)

This position will be part of a team working on seed specific expression of recombinant proteins and on genes and proteins critical for nutritional enhancement. We seek a highly motivated individual for the biochemical and molecular characterization of genetically modified corn plants with emphasis on evaluation of grain quality traits. The person will also have responsibilities to exploit the Pioneer genomics effort for product development. The successful candidate is expected to contribute to ongoing research projects and to solve technical problems independently. She/he will have close interactions with the Analytical Biochemistry and Product Development Departments. A M.S. in the biological sciences or equivalent plus at least 4 years of directly related experience using modern molecular biology/protein biochemistry techniques to solve biological problems is required. Must have experience in recombinant DNA techniques and be familiar with techniques in immunochemistry and enzyme assays. Experience in independent design and execution of experiments is essential. Computer skills in standard office software and relevant gene analysis software as well as strong communication skills are desired. Experience in the bioinformatics area is a big plus.

Please submit your scannable resume to: Pioneer Hi-Bred International, Inc. ATTN: Human Resources - Research (Job, #98-XXX), PO Box 1004, Johnston, IA 50131-1004; e-mail: jobsresearch@phibred.com. For more information on these positions visit our website www.pioneer.com.

Pioneer Hi-Bred International, Inc.,
is the world leader in
agricultural genetics.
Founded in 1926, we
are a publicly held
company that invests
more than \$160
million in research
and product development. Pioneer®
brand products are
grown in almost
every crop-producing
continent in the
world. At our headquarters in Des
Moines, Iowa, we're
adding to our
Research team.



**PIONEER HI-BRED
INTERNATIONAL, INC.**

*An Equal Opportunity
Employer*

POSITIONS OPEN

HEALTH PHYSICS FACULTY POSITION

The Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh is recruiting to fill an academic tenure-track position with responsibilities for teaching and research in radiation sciences in our graduate and postdoctoral programs. The individual selected should be prepared to provide graduate-level course instruction in several of the following areas: health physics; radiation physics as applied to health physics and medical physics; radiobiology; and environmental radioactivity. Other functions are the supervision of graduate and postdoctoral research projects and the development of an externally funded research program.

Applicants should hold an earned Doctoral degree in the field of radiation sciences closely related to radiation protection and should have several years of pertinent professional experience. Preference will be given to those with demonstrated teaching and research capabilities. Health Physics Board certification is also desirable.

Academic rank and salary will be commensurate with the qualifications of the successful applicant. It can range from ASSISTANT PROFESSOR to FULL PROFESSOR.

Inquiries concerning this pending position should be addressed to:

Herbert S. Rosenkranz
Professor and Chairman
Department of Environmental and
Occupational Health
Graduate School of Public Health
University of Pittsburgh
Pittsburgh, PA 15238
FAX: 412-967-6511
E-mail: stdntaff@vms.cis.pitt.edu

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

INSTRUCTOR/ASSISTANT PROFESSOR/ POSTDOCTORAL POSITIONS IN ENDOTHELIAL CELL BIOLOGY

The Pulmonary/Critical Care Medicine Section of the Providence VA Medical Center is seeking a Research Biologist and a Research Associate. The Research Biologist must qualify as an Instructor or Assistant Professor of Medicine (Research) at the Brown University School of Medicine and must have the Ph.D. degree, at least one year of postdoctoral experience, and published experience in cell or molecular biology. This individual will be responsible for managing a funded research program investigating mechanisms of endothelial apoptosis.

The Research Associate must have the Ph.D. degree and will work in a Postdoctoral position in a funded program investigating endothelial cell signaling and cell-cell interactions. Strong experience in molecular and/or cell biology is needed for both positions.

Applications are expected by six weeks after publication date. Screening will begin on that date. Please send curriculum vitae to: Sharon Rounds, M.D., Providence VA Medical Center, 830 Chalkstone Avenue, Providence, RI 02908. The Department of Veterans Affairs is an Equal Employment Opportunity/Affirmative Action Employer. Women, minorities, and protected persons are encouraged to apply.

ASSISTANT OR ASSOCIATE PROFESSOR

A tenure-track position as Assistant or Associate Professor in the Department of Pharmacology and Toxicology is available. Candidates must hold a Doctoral degree and are expected to establish or have an independent, extramurally funded research program utilizing creative and modern approaches. We seek applicants with outstanding research accomplishments and plans and a willingness to collaborate. We are particularly interested in those with expertise in cardiovascular or neuroscience, our areas of strength. Excellent core resource facilities exist, including those for DNA sequencing, analytical chemistry, transgenic mice, and aged primates. Faculty participate in the education of medical and graduate students. Competitive salary, laboratory space, and start-up funds are available. See our website: <http://www.mcga.edu/SOM/PhmTox/Index.html>. Please send a curriculum vitae, a letter describing current and future research plans, and the names of three references to: R. William Caldwell, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300. Application deadline is December 15, 1998. The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

George Mason University

MOLECULAR DEVELOPMENTAL BIOLOGIST GEORGE MASON UNIVERSITY

George Mason University, Department of Biology seeks candidates for a tenure-track ASSISTANT PROFESSOR position beginning August 25, 1999. The successful candidate must have postdoctoral experience and evidence of a nationally competitive grant and publication record. The department expects excellent teaching and participation in both undergraduate and graduate programs. Candidates are expected to use the latest computer technology in teaching and be willing to engage in interdisciplinary teaching and research with the Institute for Biosciences, Bioinformatics, and Biotechnology, the Krasnow Institute, and the American Type Culture Collection.

George Mason University is a state university located in the Washington, D.C. metropolitan area with all the advantages of such an area. Please send curriculum vitae, a statement of teaching and research interests, and three letters of recommendation to:

Chair, Molecular Developmental Biology
Search Committee
Department of Biology
MS 3E1
George Mason University
Fairfax, VA 22030-4444

Evaluation of applications will begin on January 25, 1999. Affirmative Action/Equal Employment Opportunity.

FACULTY POSITION BIOLOGICAL SCIENCES

The Department of Biological Sciences at Lehigh University is seeking an ASSISTANT PROFESSOR of molecular biology for a tenure-track position. Candidates with research interests in eukaryotic, cell, or molecular biology are encouraged to apply. The successful candidate will have a strong record of scholarly productivity and the ability to generate extramural support for their research. A commitment to instruction at the undergraduate and graduate levels is integral to the position. Lehigh University is a Carnegie Research II, Ph.D.-granting institution. Competitive salary and benefits plus a generous start-up package are available. Send curriculum vitae, statement of research and teaching interests, and four references to: Prof. L. Cassimeris, Chair, Molecular Biology Search Committee, Department of Biological Sciences, 111 Research Drive, Lehigh University, Bethlehem, PA 18015. The deadline for applications is December 15, 1998. Lehigh University is an Affirmative Action/Equal Opportunity Employer and is committed to recruiting and retaining women and minorities.

EXPERIMENTAL BIOLOGICAL/ BIOMEDICAL PHYSICS Washington University in St. Louis

The Department of Physics at Washington University invites applications for a SENIOR FACULTY POSITION in experimental biological/biomedical physics as part of a vigorous expansion in this area. The appointment commences September 1999. Outstanding junior candidates will also be considered for this position. Applicants should send a curriculum vitae, description of research plans, and the names of at least three (preferably five) references to: Professor Clifford Will, Biological Physics Search, Department of Physics, Campus Box 1105, Washington University, One Brookings Drive, St. Louis, MO 63130. Applications received by January 1, 1999, will be assured of full consideration. For more information, Telephone: 314-935-6276; website: www.physics.wustl.edu. Washington University is an Equal Opportunity/Affirmative Action Employer.

Tenure-track ASSISTANT PROFESSOR. Biology, Winthrop University, starting fall 1999. Ph.D. in environmental science or biological science with emphasis in environmental science; evidence of effective teaching; research involving aquatic systems desirable. Duties: teach environmental biology, investigative biology, and additional biology courses. Send curriculum vitae, statements of teaching and research interests, copies of graduate transcripts, and three letters of reference by January 15, 1999, to: Dr. Ralph A. Gustafson, Chair, Biology Department, Winthrop University, Rock Hill, SC 29733. E-mail: gustafsonr@winthrop.edu. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION BIOLOGICAL IMAGING Department of Developmental and Cell Biology School of Biological Sciences University of California, Irvine

We seek applicants at the ASSISTANT PROFESSOR level in the area of biological imaging. We especially encourage candidates who are developing or exploiting new approaches and technologies for imaging at the cellular and molecular levels, and whose research complements existing efforts in developmental biology and cell biology (website: <http://www.bio.uci.edu/units/dc/faculty/>). The position, which is the first of a series to be filled as part of a school and campus-wide initiative in biological imaging, offers the opportunity to use and help develop shared research facilities including the Beckman Laser Institute and the Optical Biology Core (website: <http://mamba.bio.uci.edu/~suedemag/OBCore/index.htm>). Successful applicants are expected to maintain an active, funded research program and participate in undergraduate and graduate teaching. Please submit a curriculum vitae, synopsis of research and teaching interests, and three letters of reference to: The Search Committee, Department of Developmental and Cell Biology, 5207 Bio Sci II, University of California, Irvine, Irvine, CA 92697-2300 by January 15, 1999.

UCI is an Equal Opportunity Employer committed to excellence through diversity.

FACULTY POSITION IN PLANT PHYSIOLOGY

The Department of Botany/Biology at North Dakota State University seeks to fill a nine-month, tenure-track faculty position at the ASSISTANT PROFESSOR level. Responsibilities will include advising undergraduate and graduate students and teaching undergraduate plant physiology, introductory biology, and advanced courses in the candidate's area of specialty. The successful candidate will develop an externally funded research program in an area of plant physiology and will attract and support graduate students. The Department offers B.S. and M.S. degrees in botany and Ph.D. degrees in botany and cellular and molecular biology. Additional information at website: <http://www.ndsu.nodak.edu/ndsu/holbrook/nonclass.stm>. Closing date is 18 January 1999. Applicants should submit curriculum vitae, transcripts, statement of teaching philosophy and research interests, copies of representative publications, and names of three references to: Plant Physiology Search Committee, Department of Botany, North Dakota State University, Fargo, ND 58105-5517.

NDSU is an Equal Opportunity Institution.

FACULTY POSITIONS

Applications for a faculty position at the RESEARCH ASSISTANT PROFESSOR, INSTRUCTOR, or a RESEARCH ASSOCIATE level. Applicants should have a Ph.D. or equivalent degree with a strong background and expertise in molecular and cell biology. The individual selected will participate in ongoing studies aiming to understand the role of cyclooxygenase in tumorigenesis at Dr. Daniel Hwang's laboratory. Rank and competitive salary will be commensurate with applicant's qualification. Positions open until suitable applicants are found. Submit a curriculum vitae and the names of three references to: Dr. Daniel Hwang, Ref: Faculty, Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA 70808-4124. Further information can be obtained by Telephone: 225-763-2518; e-mail: hwangdh@mhs.pbrc.edu. LSU/PBRC is an Equal Opportunity/Affirmative Action Employer.

BIOLOGIST. Ph.D., tenure-track ASSISTANT PROFESSOR. The University of Texas of the Permian Basin (UTPB), to begin fall semester 1999. \$37,000. Applicant should be able to teach developmental biology with molecular or cell focus, appropriate portions of general biology, and graduate courses in area of interest. A commitment to excellent teaching is necessary. Research is encouraged and expected. UTPB provides an atmosphere that encourages interaction between faculty and students. Submit résumé and the names, addresses, and telephone numbers of three references to: R. Douglas Spence, Program Coordinator for Biology, University of Texas of the Permian Basin, 4901 East University, Odessa, TX 79762. Telephone: 915-552-2272; FAX: 915-552-2374; e-mail: spence_d@utpb.edu. Screening of applicants commences December 4, 1998. UTPB is an Affirmative Action/Equal Opportunity Employer.

PREDOCTORAL FELLOWSHIP PROGRAM IN MOLECULAR THERAPEUTICS

This is a unique program within the Graduate Program of Molecular Genetics and Microbiology of the Graduate School of Biomedical Sciences of UMDNJ (Piscataway Division at Robert Wood Johnson Medical School, Piscataway, NJ) to train students in an interdisciplinary industry/university environment. This program is a collaboration of one of New Jersey's premier academic institutions and Novartis, one of the largest life sciences companies in the world. The program will provide predoctoral students an integrated research training experience at UMDNJ and at the Novartis Research Institute for Biomedical Research.

The program encompasses cutting-edge research in areas including cell cycle regulation, transcriptional control, signal transduction, cell-cell interactions, structural biology, functional genomics and NMR spectroscopy with applications to transplantation, oncology, cardiovascular disease, arthritis, lipid metabolism, gene and stem cell therapy. It is ideal for highly motivated and innovative students who have obtained a Bachelor's degree with a strong academic record and who plan an academic or industrial career.

Please send inquiries to **Dr. Sidney Pescka, Department of Molecular Genetics and Microbiology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5665**. Final applications are due by March 15, 1999. Applications and information about the graduate program can be found at <http://www2.umdj.edu/mgm/grad.html>.



**UNITED STATES DEPARTMENT OF AGRICULTURE
COOPERATIVE STATE RESEARCH, EDUCATION,
AND EXTENSION SERVICE
(CSREES)
ADMINISTRATOR, CSREES**

USDA is seeking to fill the position of agency Administrator for the Cooperative State Research, Education, and Extension Service. As Administrator, the incumbent is responsible for working with partners and customers to advance research, extension, and higher education in the food and agricultural sciences and related environmental and human sciences to benefit people, communities, and the Nation. Programs under the direction of the incumbent are financed by approximately \$900 million in Federal funds and accomplished through the efforts of approximately 400 CSREES employees. The incumbent reports directly to the Under Secretary, Research, Education, and Economics and has frequent contacts with top officials of USDA, other government agencies, cooperative extension services, state agricultural experiment stations, colleges and universities, private organizations and corporations, national and international institutions, Departments and Ministries of Agriculture in other nations, and members of Congress and their staffs.

This is a Senior Executive Service position. Salary ranges from \$106K to \$125K (including locality pay), commensurate with experience. A Ph.D. in a discipline related to the position is highly desirable. For information on the position, call **Betty Lou Gilliland** at 202-720-7441; for vacancy announcement/application procedures, call **Gwen Donovan** at 301-504-1448.

**TENURE-TRACK FACULTY POSITION
IN MOLECULAR NEUROENDOCRINOLOGY
UNIVERSITY OF CALIFORNIA, SAN DIEGO
SCHOOL OF MEDICINE**

Applications are invited for a full-time tenure-track/tenured faculty position at the Assistant/Associate Professor level. Applicants must have a Ph.D. or M.D. and at least three years of postdoctoral training in molecular biology, neurobiology, endocrinology, and/or reproductive biology. The successful applicant will establish (or have established) an active independent research program with emphasis in the areas of neuroendocrinology and reproduction. The Division of Reproductive Endocrinology has a highly interactive faculty with interests in development of the pituitary and hypothalamus, molecular signaling by neurotransmitters and hormones, transcriptional control of hormone gene expression, ovarian function, growth factor control of folliculogenesis, the roles of leptin and obesity in infertility, and polycystic ovary syndrome.

Please send curriculum vitae, summary of current research, statement of future research goals, and names and addresses for recommendations before February 1, 1999 (or until position filled), to:

**University of California, San Diego
Reproductive Medicine, 0802
Division of Reproductive Endocrinology
200 West Arbor Drive
San Diego, CA 92103-0802**

ATTENTION: Linda McKinny, Recruitment Coordinator

UCSD is an Affirmative Action/Equal Opportunity Employer. The level of appointment and salary will be commensurate with qualifications and experience in accordance with UC policy.

POSITIONS OPEN

Three tenure-track positions available. Microbial ecology; terrestrial vertebrate ecology; neurobiology/anatomy. The Department of Biological Sciences at California State University, Chico invites applications for tenure-track **ASSISTANT PROFESSOR** positions beginning fall 1999. All candidates must have a Ph.D., teaching experience at the undergraduate level, a strong interest in teaching excellence, and a demonstrated ability or potential to establish an externally funded research program that will involve undergraduate and graduate students. Postdoctoral experience is preferred. Teaching upper-division and/or graduate courses in area of specialization is expected. Normal faculty duties include undergraduate advising as well as 12 to 16 classroom hours of teaching per week. Additional qualifications and responsibilities for each position are as follows. Microbial ecology: candidates must have a specialization in microbial ecology, experience with molecular techniques, and a demonstrated knowledge of both ecology and microbiology. Responsibilities include teaching upper-division courses in ecology and microbial ecology, teaching lower-division introductory biology and microbiology courses, and participating in an interdepartmental research program in environmental science. Terrestrial vertebrate ecology: candidates must have a specialization in the ecology of terrestrial vertebrates and a demonstrated knowledge of conservation ecology. Responsibilities include teaching upper-division courses in ecology and conservation ecology, teaching lower-division introductory zoology and biology courses, and participating in an interdepartmental research program in applied ecology/environmental science. Neurobiology/anatomy: candidates must have a specialization in neurobiology, experience with molecular techniques, and a demonstrated knowledge of anatomy. Responsibilities include teaching upper-division courses in physiology and comparative anatomy and teaching lower-division introductory biology and/or non-major anatomy/physiology. Applicants should submit a letter of application, curriculum vitae, a statement of teaching philosophy, representative reprints, complete academic transcripts, and three letters of reference to: **Dr. Michael Abruzzo, Chair, Department of Biological Sciences, California State University, Chico, Chico, CA 95929-0515, Attn: (specific position). Telephone: 530-898-5356.** Closing date for the microbial ecology position is December 18, 1998, while that for terrestrial vertebrate ecology and neurobiology/anatomy is January 22, 1999. As a University that educates students of various ethnic and cultural backgrounds, we seek to create as diverse a pool of candidates as possible. *CSU, Chico is an Equal Employment Opportunity/Affirmative Action/ADA Employer. California State University, Chico employs only individuals lawfully authorized to work in the United States.*

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF PITTSBURGH

The Department of Pharmacology seeks to fill a tenure-track position at the rank of **ASSISTANT or ASSOCIATE PROFESSOR**. Successful applicant must have a Ph.D. and/or M.D. with appropriate postdoctoral research experience. Individuals with an outstanding record of research in pharmacogenomics, drug discovery, signal transduction, or other areas that complement the existing programs in the department ([website: http://www.pitt.edu/~pharmwww](http://www.pitt.edu/~pharmwww)) are encouraged to apply. Send application by January 15, 1999, with curriculum vitae, a statement of research interest, and names of three references to: **Leaf Huang, Ph.D., Faculty Search Committee, Department of Pharmacology, University of Pittsburgh, W1340 Biomedical Science Tower, Pittsburgh, PA 15261.**

RESEARCH ASSISTANTS IMMUNOLOGY

We have two positions available. One position involves the study of T lymphocyte development in transgenic and knockout mice and will utilize a variety of techniques of immunology, cell biology, and molecular biology. The other position involves the study of the effect of a novel gene on T lymphocyte function. The primary work will involve molecular biology and biochemistry of signal transduction. Both positions require a B.A./B.S. in biology or related area. Experience with DNA techniques helpful. Please forward résumé to: **Human Resources, Beth Israel Deaconess Medical Center, Job Code: 9144, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-632-8155.** *We are an Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF COLORADO AT BOULDER Molecular, Cellular, and Developmental Biology

We seek applications from **CELL BIOLOGISTS** for a tenure-track **ASSISTANT PROFESSOR** faculty position beginning in fall 1999. Applicants who are capable of an exceptional program of teaching and research are sought. Applicants using any cell type to address questions concerning cellular organization, morphogenesis during development, or cell-cell interactions and signaling are encouraged to apply. An application consisting of curriculum vitae, publications, short summary of scientific interests, and three evaluative letters from knowledgeable scientific referees should be postmarked by January 31, 1999, and sent to: **The Committee on Recruitment, Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, CO 80309-0347.** *The University of Colorado at Boulder is committed to diversity and equality in education and employment.*

FACULTY POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology is seeking to fill a tenure-track position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. The position is for an individual with experience in the area of biochemistry/molecular genetics of eukaryotic systems. The successful candidate should have an earned Doctorate and demonstrated research strengths in an area of signal transduction, regulation of gene expression, or gene targeting. He/she must be willing to interact with scientists from many departments interested in plant and animal molecular genetics. The Department is located in a modern research building with well-equipped laboratories and a stimulating scientific environment. A state-of-the-art "Core Facility" is available to support research and teaching activities in recombinant DNA and proteins. A 600 MHz NMR spectrometer was recently installed in a nearby facility and will be available to those having need of high-resolution NMR spectroscopy. The position is an eleven-month appointment and carries approximately 75 percent research and 25 percent teaching responsibilities. Successful candidates will be expected to have a commitment to research and teaching and to contribute to our graduate and undergraduate teaching programs. In addition, the successful candidate will be expected to develop an independent, extramurally funded research program. A competitive salary with adequate start-up funds and generous laboratory space are available. Review of applications will begin December 15, 1998, and continue until the position is filled. Interested individuals should provide a letter of application, a current curriculum vitae, a statement of research interests, two representative reprints of past work, and three letters of reference to:

Dr. Chang-An Yu

Chairman of the Search Committee

**Department of Biochemistry and Molecular Biology
246 Noble Research Center
Oklahoma State University
Stillwater, OK 74078-3035
E-mail: sheil@biochem.okstate.edu**

OSU is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR. Human cognitive neuroscience. The Center for Cognitive Neuroscience and the Department of Psychology at Dartmouth College announce an opening in the area of human cognitive neuroscience at the Assistant Professor level starting in the fall of 1999. Candidates must be experienced in some aspect of cognitive neuroscience research and committed to excellence in teaching. Postdoctoral training is highly desirable. The Center and the Psychology department will be jointly housed in new facilities and will have a variety of brain imaging modalities available including fMRI, ERP, and NIR. Candidates should submit a letter of application, curriculum vitae, and at least three letters of recommendation to: **Search Committee, Center for Cognitive Neuroscience and Department of Psychology, 6207 Gerry Hall, Dartmouth College, Hanover, NH 03755-3549.** The review of applications will begin on January 15, 1999, and continue until the position is filled. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.* For further information, please contact: **Professor George Wolford, Chair, Search Committee.**

POSITIONS OPEN

CONSERVATION BIOLOGY

The Department of Biological Sciences of the University of New Orleans (UNO) invites applications for two tenure-track positions at the rank of **ASSISTANT or ASSOCIATE PROFESSOR**.

POPULATION ECOLOGIST using experimental or theoretical approaches to study demography, genetic demography, metapopulation dynamics, population viability, or other problems relevant to conservation biology.

AQUATIC ECOLOGIST with research interests in coastal/estuarine habitats. Preference will be given to candidates with expertise in community-level processes that are relevant to the conservation of coastal wetlands.

Applicants must have a Ph.D. and postdoctoral experience. Successful candidates will develop extramurally funded research programs, direct graduate students, and teach at the undergraduate and graduate levels. Both candidates will assume strong leadership roles in developing a program in conservation biology.

The University of New Orleans, in affiliation with the Audubon Institute of New Orleans, a private institute dedicated to conservation research and education, has committed to developing a program of research and education in conservation biology. Successful candidates will have opportunities for interaction and collaboration with researchers in this developing program. UNO is also a member of the Louisiana Universities Marine Consortium (LUMCON), and enjoys easy access to many estuarine and coastal sites for research and teaching. For more information, please visit us at **website: <http://www.uno.edu/~bios>.**

Submit a letter of application, curriculum vitae, a statement of research interests, reprints, and three letters of recommendation to: **Conservation Biology Search Committee, Department of Biological Sciences, University of New Orleans, New Orleans, LA 70148. Telephone: 504-280-6307; FAX: 504-280-6121; e-mail: jsrogers@uno.edu.** Review of applications will begin January 16, 1999.

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

ASSISTANT PROFESSOR MICROBIAL GENETICS

The Department of Biological Sciences, Mississippi State University invites applications for a nine-month, tenure-track Assistant Professor position to begin August 16, 1999. The successful applicant will be expected to develop a vigorous, externally funded research program and to direct M.S. and Ph.D. students. The area of research is open. The applicant must be able to teach bacterial genetics and a course in the area of specialization. Applicants must have a Ph.D. and a record of research productivity in a relevant field. Teaching and postdoctoral experience are desirable. Applicants should submit a curriculum vitae, selected reprints, a concise statement of research and teaching interests, and should arrange for three letters of reference to be sent to:

**Dr. Karen S. Coats, Chair
Search Committee**

**Department of Biological Sciences
P.O. Box GY
Mississippi State, MS 39762**

For more information, **Telephone: 601-325-3120; e-mail: ksc@ra.msstate.edu; website: <http://www.msstate.edu/Dept/BioSciences/bio.html>.** Screening of applications will begin on December 1, 1998, and will continue until the position is filled. *Mississippi State University is an Affirmative Action/Equal Opportunity Employer.*

BASIC SCIENCE FACULTY NEUROSCIENCE

The Basic Sciences Division of The Arizona College of Osteopathic Medicine invites applications from individuals holding a Ph.D. degree or its equivalent for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Research experience in any aspect of neuroscience is preferred and the level of research productivity should be commensurate with rank. Primary teaching responsibility will be in the medical school curriculum and will involve courses in neuroscience and histology. Teaching experience in these disciplines is essential. Applicants should submit a curriculum vitae that includes the names of three references and a statement of research interests to: **Dr. Greg Mihailoff, Arizona College of Osteopathic Medicine, Basic Sciences Division, 19555 North 59th Avenue, Glendale, AZ 85308.** Review of applications will be concluded on January 31, 1999. *Midwestern University is an Equal Opportunity Employer.*

EXECUTIVE DIRECTOR PENNINGTON BIOMEDICAL RESEARCH CENTER

The Louisiana State University System is seeking an outstanding candidate to serve as Executive Director of the Pennington Biomedical Research Center. The Center was opened in 1987 and is located on a 237-acre site in Baton Rouge. It comprises eight buildings with an approximate total area of 319,000 square feet, providing excellent facilities for clinical and basic biomedical research with an emphasis on nutrition and preventive medicine. The Center has an annual budget of approximately \$17 million with 67% of that total arising from grant funds.

The Executive Director must possess a Ph.D. and/or M.D. degree and have administrative experience in biomedical research. The candidate should have a demonstrated record of superior performance in research. This must include an outstanding publication record, a history of extensive research support and international recognition for their research in a clinical or basic science area. The individual also should have a record of superior academic achievement and possess the qualifications for appointment as a full professor in a related department.

The Executive Director will be expected to provide leadership and planning for the continued development of the Pennington Biomedical Research Center and its clinical and basic science research programs. He/she also has the responsibility for providing leadership in the acquisition of governmental and private grants and contracts to support the clinical and basic science operations of the Center. The Director will facilitate and plan joint research programs with the other campuses of the Louisiana State University System.

Applications and nominations should be submitted as soon as possible and the review of candidates will begin on November 30 and continue until the position is filled. Applications should include a letter expressing philosophy for the continued development of a preeminent national research laboratory. The application should also include a curriculum vitae. References will be requested.

Send application or nominations to:

H. Douglas Braymer, Ph.D., Chair
Search Committee for Executive Director of
Pennington Biomedical Research Center
Louisiana State University System
P.O. Box 16070
Baton Rouge, LA 70893
Phone: (225) 388-6118

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The Department of Neurological Surgery at the University of California San Francisco seeks a basic scientist to participate in the Department's Cerebrovascular Research Program at the level of Assistant/Associate Professor in Residence. This individual should have a Ph.D. or M.D. and have a special interest in ischemic or hemorrhagic brain injury research. Expertise in molecular biology and gene therapy of brain injury especially sought. Please send curriculum vitae and 3 letters of recommendation to:

Dr. Mitchel S. Berger
Professor and Chair
Dept. of Neurosurgery
UCSF Medical Center
505 Parnassus Avenue
San Francisco, CA 94143-0112

*UCSF is an Equal Opportunity/
Affirmative Action Employer. The
University undertakes Affirmative
Action to assure equal opportunity
for underutilized minorities and
women, for persons with disabilities
and for Vietnam-era and special
disabled veterans.*

TWO FACULTY POSITIONS IN NEUROBIOLOGY

The new Section of Neurobiology in the reorganized School of Biological Sciences of the University of Texas at Austin invites applications for two faculty positions. Applicants must have a Ph.D. or similar degree. Successful candidates will be expected to establish an active research program and to teach at both graduate and undergraduate levels. Applications will be considered as they arrive, but should be received by 30 November 1998, and should include the names of three references (including e-mail addresses and phone numbers). *The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.*

Alcoholism and Drug Addiction Research. Molecular neurobiologist to join expanding program for alcoholism and addiction research. Preference given to applicants with expertise in mutant mouse (knock-in) techniques, molecular genetics, or ion channel structure and function. Record of outstanding research productivity and accomplishment required. Submit CV and outline of proposed research program (in alcoholism or drug addiction) to: **Dr. R. Adron Harris, Institute for Cellular and Molecular Biology, University of Texas, 2500 Speedway, Austin, TX 78712-1095.**

Neuronal Development or Plasticity. Preference given to applicants using molecular, genetic, or biophysical approaches to study neuronal development or plasticity at the cellular or systems level. Teaching needs are in neurobiology or introductory biology. Submit CV and statement of research plans and teaching interests, and representative reprints to: **Dr. Klaus Kalthoff, Neurobiology Search Committee, c/o Department of Zoology, University of Texas, Austin, TX 78712.**

POSITIONS OPEN

ASSOCIATE PROFESSOR VASCULAR PLANT SYSTEMATICS THE OHIO STATE UNIVERSITY

The newly established Department of Evolution, Ecology, and Organismal Biology seeks an Associate Professor (or advanced Assistant Professor) in vascular plant systematics to join our existing systematics group in the Museum of Biological Diversity. This is a tenure-track position with a starting date of October 1, 1999. The successful applicant will be expected to maintain an extramurally funded research program in an area of vascular plant systematics, taxonomy, or phylogenetics that complements existing programs and extends the program's ability to train graduate students and Postdoctoral Researchers in molecular or monographic methods. The appointee will also be expected to assume a formal leadership role in the further development of the research and service programs of the Ohio State University Herbarium, a collection of over 500,000 specimens with emphasis on eastern North America and temperate South America. In addition, the successful applicant will direct graduate students and contribute to the undergraduate and graduate teaching programs in evolutionary and organismal biology. Recently renovated office and laboratory space is available in the Museum. Applicants should forward a current curriculum vitae, statements of teaching and research experience and interests, and three letters of reference to: **The Chair, Plant Systematics Search Committee, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, 1735 Neil Avenue, Columbus, OH 43210.** Review of applications will begin on December 1, 1998, and will continue until a suitable candidate is identified. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, persons with disability, and Vietnam-era veterans are encouraged to apply.*

ECOSYSTEM ECOLOGIST UTAH STATE UNIVERSITY

The Department of Biology in cooperation with the Ecology Center invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the area of ecosystem ecology (Ph.D. required). This position is approximately half teaching (undergraduate and graduate) and half research. Evidence of proficiency in both teaching and research will be used as selection criteria, and the successful applicant will be expected to establish an externally funded research program. Preference will be given to applicants who incorporate an experimental approach in their research, show a strong proclivity for interdisciplinary research, and whose research interests complement existing programs in the Biology Department ([website: http://www.biology.usu.edu](http://www.biology.usu.edu)) and the Ecology Center ([website: http://www.usu.edu/~ecology/eco-cntr.htm](http://www.usu.edu/~ecology/eco-cntr.htm)).

Candidates should submit a curriculum vitae, a description of research and teaching interests, representative reprints, and the names, addresses, and telephone numbers of three references to: **Dr. Keith A. Mott, Chair, Ecosystem Ecologist Search Committee, Department of Biology, Utah State University, 5305 Old Main Hill, Logan, UT 84322-5305. Telephone: 435-797-3563; FAX: 435-797-1575; e-mail: kmott@biology.usu.edu.** Review of applications will begin 15 December 1998, and will continue until the position is filled.

USU is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

The Biology Department at Georgia College & State University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in molecular biology starting August 1, 1999. Candidates must have a Ph.D. or expect to complete all requirements for their Ph.D. by June 1, 1999. Georgia College & State University is the public liberal arts university in the state of Georgia and applicants should have a strong commitment to teaching and conducting research with undergraduate and Master's-level graduate students. Candidate will be expected to develop a course in major area. Ability to also teach courses in developmental biology, genetics, and/or cellular and molecular physiology preferred. Applicant should submit a letter of application, curriculum vitae, three letters of reference, transcripts of all college/university degrees, and statements of research interests and teaching philosophy by January 15, 1999, to: **Thomas Toney, Ph.D., Molecular Biology Search Committee Chair, Department of Biology, Georgia College & State University, Milledgeville, GA 31061.** *Georgia College & State University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

BIOLOGY ASSISTANT PROFESSOR. Keene State College is a public arts liberal arts college of the University System of New Hampshire with an enrollment of 5,000 students. The College has been recognized as a leader in American higher education for its commitment to its mission, broad-based strategic planning initiatives, and cohesive sense of community. The College is located in the scenic Monadnock Region of southwest New Hampshire, near experimental forests and national forests. The College owns the 400-acre Louis Cabot Preserve on Lake Nubanusit, while the City of Keene contains extensive conservation lands. The Department of Biology invites applications for a tenure-track position at the Assistant Professor level beginning fall 1999. The ideal candidate can teach undergraduate courses in plant systematics, anatomy and morphology of vascular plants, population genetics, introductory biology, and general education courses; supervise undergraduate research; and manage a small herbarium. Qualifications: Require Ph.D. completed by February 1, 1999, in biology, botany, plant science, plant systematics, plant population genetics, or related field; strong commitment to undergraduate teaching, to liberal arts education, and to an integrated biological perspective; good general knowledge of biology; some undergraduate teaching experience. Familiarity with New England flora or forest species desirable. Minimum salary for Assistant Professor: \$36,500. Submit letter of application, curriculum vitae, clear description of undergraduate teaching experience, statement of teaching philosophy/methods, statement of research interests, and three letters of reference (addressing candidate's undergraduate teaching experience) by December 18, 1998, to: **CHE102398, Biology Search Committee, Office of Human Resource Management, Keene State College, 229 Main Street, Keene, NH 03435-1604.** Keene State College is a member of the Council of Public Liberal Colleges, a national alliance of leading liberal arts colleges in the public sector. *Keene State College is an Affirmative Action/Equal Employment Opportunity Employer and actively seeks women and minority candidates.*

RESEARCH ASSISTANT PROFESSOR position is available to participate in the development and maintenance of a newly created University-wide Optical Imaging Facility. This person will be responsible for the day-to-day operation of the facility as well as supervision of other facility personnel. As such, this person will be expected to participate in the education of other Departmental as well as University-wide scientists and students in the use of digitized video microscopy, operation of the facility in terms of decision making regarding component and software purchases, and in the design of new hardware and software developed on site in the facility. The facility will house a two-photon lifetime imaging instrument, a high-resolution FRET microscope, ion imaging/caged compound microscope, as well as other optical imaging technologies. In addition, this person will be expected to teach in the planned UTHSCSA Workshop on Optical Microscopy. Requirements include a Ph.D. in biophysics, biomedical engineering, computer science, or physics. Send curriculum vitae and three letters of reference to: **Dr. Brian Herman, Professor and Chair, Department of Cellular and Structural Biology, University of Texas Health Sciences Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7762.** *An Equal Opportunity/Affirmative Action Employer.*

CELLULAR NEUROBIOLOGIST

The Department of Biology of Loyola University Chicago seeks a Cellular Neurobiologist for a full-time, tenure-track **ASSISTANT PROFESSOR** position commencing August 1999. Applicants should possess a Doctorate and two years of postdoctoral experience. The successful candidate is expected to generate an active research program in the area of signal transduction, cell-cell communication, or developmental neurobiology. Teaching responsibilities will include an undergraduate course in cell biology and undergraduate and graduate (M.S.) courses in the candidate's area of expertise. A complete application, including curriculum vitae, statement of teaching and research interests, and three letters of recommendation should be received no later than December 31, 1998. Further information may be obtained at [website: http://www.luc.edu/depts/biology](http://www.luc.edu/depts/biology). Please address applications to: **Cellular Neurobiologist Search Committee, Department of Biology, Loyola University Chicago, 6525 North Sheridan Road, Chicago, IL 60626.** *Loyola University is an Equal Opportunity/Affirmative Action Employer. Underrepresented minorities are particularly encouraged to apply.*

POSITIONS OPEN

SYSTEMS NEUROSCIENTIST

The Department of Psychology, University of California, Riverside invites applications for a tenure-track **ASSISTANT PROFESSOR** position, beginning July 1, 1999. The Ph.D. degree is required. Applicants should have demonstrated compelling promise of research and publication using modern approaches in neuroscience to address fundamental problems in brain mechanisms relevant to mammalian behavior. Those with research interests in mechanisms of plasticity are especially encouraged to apply. Applicants should also be committed to excellence in undergraduate and graduate education. The deadline for review of completed applications begins January 15, 1999, and continues until the position is filled. Interested candidates should send their curriculum vitae, reprints if available, a cover letter describing research and teaching interests, and arrange to have three letters of recommendation sent to:

**Dr. Glenn Stanley
Chair, Systems Neuroscience Search Committee
Department of Psychology Box B
University of California-Riverside
Riverside, CA 92521**

The Riverside campus of the University of California is growing rapidly and has an excellent psychology department with a strong record of success in research, teaching, and extramural funding. For information on the Department of Psychology, see our [website: http://www.psych.ucr.edu](http://www.psych.ucr.edu). The campus is centrally located in Southern California, about 50 miles east of Los Angeles and less than an hour's drive from the area's mountains, deserts, and beaches.

The University of California, Riverside is an Equal Opportunity Employer/Affirmative Action Employer.

ASSISTANT PROFESSOR OF PLANT CELL BIOLOGY

The Department of Botany and Plant Sciences, University of California, Riverside, announces a tenure-track appointment in the College of Natural and Agricultural Sciences and in the Agricultural Experiment Station, available July 1, 1999. Salary commensurate with education and experience. Applicants must have a Ph.D. degree in a discipline relevant to plant cell biology. Postdoctoral experience is desirable. The successful candidate is expected to employ modern and innovative techniques to explore contemporary cell biology frontiers; examine problems in basic cell biology, utilizing a plant system that can be readily manipulated by genetic or molecular techniques; establish an active research program; contribute to teaching at the undergraduate and graduate levels; and actively participate in the Cell, Molecular, and Developmental Biology Interdepartmental Graduate Research Umbrella. Research areas are open but may include signal transduction, cell cycle, protein targeting, cytoskeleton, and differentiation. The candidate must possess a strong commitment to teaching excellence and a high research potential. Send letter of application, curriculum vitae, statement of research interests, and the names and addresses of at least three references to: **Dr. Elizabeth M. Lord, Chair, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521-0124. E-mail: lord@ucrcl.ucr.edu; FAX: 909-787-4437; website: http://cnas.ucr.edu/~bps/homepage.htm.** Review of files will begin in January/February of 1999 and will continue until the position is filled.

The University of California, Riverside is an Affirmative Action/Equal Opportunity Employer.

ANIMAL PHYSIOLOGIST

The Department of Biological Sciences at Indiana University South Bend invites applications for a tenure-track position as an **ASSISTANT PROFESSOR** of animal physiology beginning August 1999. A Ph.D. is required and postdoctoral experience is preferred. The candidate is expected to establish an active research program involving undergraduates. Teaching responsibilities will include human anatomy and physiology and introductory biology. Applications are due by December 21, 1998, and should include a description of research and teaching interests, curriculum vitae, and three letters of reference. Send to: **Dr. Douglas Duff, Chair, Department of Biological Sciences, Indiana University South Bend, P.O. Box 7111, South Bend, IN 46634-7111.** *IUSB is strongly committed to achieving excellence through cultural diversity. The university actively encourages applications and nominations of women, persons of color, applicants with disability, and members of other underrepresented groups.*



National Science Foundation

NSF's Division of Biological Infrastructure (DBI), the Division of Environmental Biology (DEB), the Division of Integrative Biology and Neuroscience (IBN), and the Division of Molecular and Cellular Biosciences (MCB) seek qualified applicants to serve as Program Directors under the provision of NSF's rotational program in the areas listed below.

Responsibilities include research proposal evaluation, budget development, and scientific planning. Broad knowledge and specific research accomplishment are key qualifications. Positions will be filled on a one- or two-year rotational/temporary basis beginning late summer/early fall 1999. The current salary range is \$66,138 to \$103,078; qualification requirements are a Ph.D. or equivalent experience plus six or more years of independent research experience beyond the Ph.D.

For general information about NSF programs in the Biological Sciences, consult the NSF website (<http://www.nsf.gov>). For information RE: **DBI** programs, call **Dr. Machi F. Dilworth, 703/306-1470**; RE: **DEB** programs, call **Dr. Bruce P. Hayden, 703/306-1480**; RE: **IBN** programs, call **Dr. Bruce L. Umminger, 703/306-1420**; or RE: **MCB** programs, call **Dr. Maryanna Henkart, 703/306-1440**.

Applicants must submit a résumé or other application format of choice. Applications must specify the job title for which you are applying, and should include the following information: country of citizenship; information about education, including major and type and year of degree(s); complete information about experience related to this job, including job titles, duties, and accomplishments, employer's name and phone number, starting and ending dates and year, and salary to: **National Science Foundation, Division of Human Resource Management, Suite 315, 4201 Wilson Boulevard, Arlington, VA 22230**. Attn: **Madalyn Chisley**. Your voluntary completion of our applicant survey form is requested. For a copy of the applicant survey form, please contact **Ms. Chisley at 703/306-1185, extension 3034**. Hearing-impaired individuals should call **703/306-0189**. *NSF is an Equal Opportunity Employer committed to employing highly qualified staff that reflect the diversity of our nation.*

POSTDOCTORAL APPOINTMENTS

Argonne National Laboratory has Postdoctoral appointments available in the Structural Biology Center and Center for Mechanistic Biology and Biotechnology. We are currently seeking to fill positions in crystallography and in biophysical and molecular biology studies of protein. Crystallographic work will be carried out at the SBC beam lines at the Advanced Photon Source and our R-Axis II area detector facility. The projects include studies of molecular chaperons, immunoglobulins, photosynthetic reaction center, enzymes and other studies of new proteins with novel folds supporting the Structural Genomics Initiative. Methods include MAD analysis, atomic resolution structures, macromolecular assemblies and complementary functional studies. Postdoctoral candidates must have received their Ph.D. not more than 3 years prior to the start date of the appointment.

To apply, please send curriculum vitae and the names and addresses of three references to **Susan Walker, Employment and Placement, Box CMB-122547-43, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Illinois 60439**. Fax: (630) 252-9388. TDD: (630) 252-7722. For additional information, see <http://www.anl.gov/welcome.html>. Argonne is an equal opportunity/affirmative action employer.



POSTDOCTORAL AND TECHNICIAN POSITIONS AT THE NIH GENETICS OF DEVELOPMENT AND DISEASE

Postdoctoral and technician positions are available in the Genetics of Development and Disease Branch at the National Institute of Diabetes and Digestive and Kidney Diseases, NIH, in Bethesda, MD. Areas of interest include:

Chuxia Deng – Functions of FGF receptors and tumor suppressor genes. Projects include cell cycle checkpoints, tumorigenesis, developmental induction, bone growth and creation of animal models of human diseases. For details see *Genes & Dev.* 8: 3045 (1994); *Cell* 82: 675 (1995), 84: 911 (1996); *Oncogene* 15: 685 (1997); *Dev. Biol.* 185: 42 (1997) *Development* 125: 753, 3615 (1998); *PNAS* 95: 3667, 9378 (1998). Postdoctoral and technician (biologist) positions are available. Applicants for the technician/biologist position must be US citizen and should have experience in tissue culture and molecular cloning. The Biologist position will be filled at the GS-9/11 level with an annual salary range from \$32,457 through \$51,049. This is a Term Appointment not to exceed 4 years. Please call (301) 496-4231 to request a vacancy announcement and mandatory KSA's to be addressed. Refer to announcement #DK-98-840.

Richard Proia – Mechanisms of apoptotic-mediated neurodegeneration, therapeutics for glycosphingolipid storage diseases, creation of mouse models of disease, functions of glycosphingolipids in development and nervous system function, and their roles in cell signaling. Approaches include conventional/conditional mouse knockouts and large-scale gene expression analysis. For details see *Nat. Genet.* 14: 348 (1996); *Science* 276: 428 (1997), *PNAS* 95: 2503 (1998); *J. Clin. Invest.* 101: 1881 (1998); *J Biol. Chem.* 273: 19634 (1998). Postdoctoral position available.

The NIH offers a competitive salary and benefits package. Applicants should include a CV with list of publications, a brief description of research experience and the names and addresses of 3 references to Chuxia Deng or Richard Proia at:

**Building 10, Room 9N-119
10 CENTER DR MSC 1812
National Institutes of Health
Bethesda, MD 20892**

Biologist applications should be mailed to:

**Thomascene White
NIH/NIDDK
31 CENTER DR MSC 2560
BETHESDA, MD 20892**

APPLICATIONS MUST BE RECEIVED BY 12/7/98.

POSITIONS OPEN

ASSISTANT PROFESSOR ENTOMOLOGY UNIVERSITY OF MINNESOTA

The Department of Entomology, University of Minnesota is seeking applicants for a 12-month, tenure-track, research-extension position in commodity and structural arthropod pest management. The successful applicant will develop an active research and extension program associated with processed foods, stored commodities, bulk grains, and structures. A Ph.D. or equivalent doctorate in entomology or related field by date of appointment is required. Minimum qualifications include research experience related to commodity and/or structural arthropod pest management. Teaching, outreach, and/or extension experience in entomology or related field is required. Detailed position description is available at [website: www.ent.agri.umn.edu/](http://www.ent.agri.umn.edu/) or by mail. Interested individuals must send a detailed professional résumé, statement of interest and future goals for both (i) research and (ii) outreach and extension, copies of up to four examples of research and/or extension publications, graduate and undergraduate academic transcripts, names and full addresses, including e-mail, for four persons who are familiar with applicant's work. Complete applications must be received by February 1, 1999. Direct inquiries and applications to: Dr. Ralph W. Holzenthal, Chair, Search Committee, Department of Entomology, 219 Hodson Hall, 1980 Folwell Avenue, University of Minnesota, St. Paul, MN 55108. Telephone: 612-624-7728; FAX: 612-625-5299; e-mail: holze001@tc.umn.edu. The University of Minnesota is an Equal Opportunity Employer and Employer.

ASSISTANT PROFESSOR NEUROBIOLOGY UNIVERSITY OF VERMONT

Applications are invited for a tenure-track position in the Department of Biology. Applicants are expected to (1) hold a Ph.D. degree and have two or more years of postdoctoral experience; (2) have research experience with techniques of modern physiology and a primary research focus on some aspect of cellular neurobiology; (3) develop a competitive research program in cellular neurobiology; and (4) teach an introductory course and an advanced neurobiology laboratory course that includes oocyte clamping. Applicants should forward a current curriculum vitae and brief description of their research and teaching plans and should solicit three letters of reference to be sent to:

Dr. Judith Van Houten
University of Vermont
Department of Biology
120A Marsh Life Sciences Building
Burlington, VT 05405-0086

Review of applicants will begin on December 15, 1998. We especially encourage women, disabled, and minority candidates to apply. The University of Vermont is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

The Hendrix College Biology Department is inviting applications for a tenure-track position starting in September 1999. The successful applicant will be a **CELLULAR BIOLOGIST** with broad training and must demonstrate evidence of a strong desire to teach at the undergraduate level, direct undergraduate research, and participate in the life of a small, selective, residential liberal arts college. The applicant will be expected to teach both introductory and advanced courses in cell biology and other courses depending on expertise. Please send a letter of application detailing your teaching experience and philosophy, a curriculum vitae, transcripts, and three letters of reference to: Mark Sutherland, Biology Department, Hendrix College, 1600 Washington Avenue, Conway, AR 72032. E-mail: sutherlandm@hendrix.edu. Application review will begin on January 2, 1999. Hendrix College is an Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR position available immediately to study insect transposable elements and their development into insect germline transformation vectors. Candidate should have at least five years of postdoctoral research experience with extensive expertise in insect genetics and molecular genetics and a record of research productivity. Send curriculum vitae, summary of research experience and interest, and have three letters of reference sent by November 23, 1998, to: Center for Agricultural Biotechnology, 5115 Plant Sciences Building, College Park, MD 20742-4450. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR (RESEARCH) OR ASSOCIATE PROFESSOR (RESEARCH)

The Department of Radiology at Stanford University seeks applicants for an Assistant Professor (Research) or Associate Professor (Research) position to develop a program in molecular imaging. The successful candidate will, through independent research as well as extensive collaborations, develop new methodologies for imaging gene expression *in vivo*. The individual will, in conjunction with other departments throughout the University, participate in the development and testing of new imaging marker genes designed to diagnose pathology, aid in drug design, and monitor gene therapy. Candidates must have a Ph.D. or equivalent degree in a physical or biological science. Preference will be given to candidates with experience in multiple imaging modalities including nuclear medicine, computed tomography, magnetic resonance, and optical imaging, and with a strong background developing imaging techniques, instrumentation, and reconstruction algorithms. Working knowledge of and experience with molecular biology laboratory techniques is preferred. The candidate will be expected to develop independent extramural funding and participate in other program-wide development activities. Send curriculum vitae and the names of at least three references to: Norbert J. Pelc, Sc.D., Chairman, Molecular Imaging Faculty Search Committee, Department of Radiology, Lucas MRI/S Building, Corner Welch Road and Pasteur Drive, Stanford University, Stanford, CA 94305-5488. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

ASSISTANT PROFESSOR

Tenure-track Associate Member (Assistant Professor) position available in the Ovarian Cancer Research Program at Fox Chase Cancer Center. Seeking candidates with at least four years of postdoctoral experience in ovarian cancer laboratory research or a research discipline that the applicant would like to apply to ovarian cancer. Current peer-review support will be considered an asset. The program currently includes internationally recognized research in epidemiology, risk assessment, etiology, drug resistance and experimental therapy, treatment and prevention clinical trials, and quality of life assessment. Fox Chase is a National Cancer Institute-designated comprehensive cancer center and offers a competitive salary and support package to successful applicants. Interested applicants should send a curriculum vitae, three references, and a research plan to: Thomas C. Hamilton, Ph.D., Director, Ovarian Cancer Research Program, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

We are accepting applications for the National Sciences and Engineering Research Council of Canada (NSERC) Women in Science and Engineering **ASSISTANT PROFESSOR** in biochemistry, molecular genetics, or microbiology to participate in a joint program (anthropology, biology, chemistry), in applied biomolecular science at Lakehead University. We seek a Biochemist or Molecular Biologist interested in the regulation of gene expression and/or enzymatic activity in any well-characterized prokaryotic or lower eukaryotic system, whose expertise extends to organisms of potential value to forensic science, pulp and paper, or mining industries. *This program is directed to women who are Canadian citizens or permanent residents of Canada.* Please submit a curriculum vitae, research proposal in NSERC format, a statement on teaching interests, recent reprints, and three letters of recommendation to: Dr. J. Gellert, V.P. Academic, Lakehead University, 955 Oliver Road, Thunder Bay, Ontario P7B 5E1 Canada. Additional information, e-mail: lmalek@lakeheadu.ca.

RESEARCH INSTRUCTOR/ASSISTANT PROFESSOR

The University of Illinois, Section of Hematology/Oncology invites applications for a non-tenure Research Faculty position. We seek a Ph.D. with extensive experience in leukemia biology or hematopoiesis or genetics to apply genomic technology to identify new genes related to proliferation and engraftment of marrow stem cells. Candidates should submit their curriculum vitae with list of three references to: Carol Westbrock, M.D., Department of Medicine, The University of Illinois at Chicago, 900 South Ashland (M/C 734), Chicago, IL 60607.

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

POSITIONS OPEN

THE UNIVERSITY OF NEW MEXICO DEPARTMENT OF PATHOLOGY

ASSISTANT PROFESSOR in receptor-mediated signaling pathways. The Program in Signal Transduction and Cell Adhesion at the University of New Mexico Department of Pathology is directed at understanding basic cellular and molecular mechanisms in human disease. We seek a collegial Investigator who will participate in our research, training, and teaching missions. The successful candidate will be expected to develop a highly vigorous, competitive, and interactive research program. Minimum requirements: (a) Ph.D., M.D., or equivalent; (b) completed Postdoctoral or Fellowship training. Highly desirable: (a) productivity in research relevant to asthma, inflammation, or hematopoiesis (appropriate research topics include chemokines, chemokine or other surface signaling receptors, and intracellular activation pathways); (b) experience teaching medical students, graduate students, and Fellows; (c) history of relevant publication; (d) history of relevant funding. An attractive start-up package is available through a Howard Hughes Medical Institution grant. For best consideration, the applicant should submit the following before December 31, 1998: a curriculum vitae, the names of three references, a concise description of their research plan, and their date of availability to: Larry Sklar, Department of Pathology, University of New Mexico Health Sciences Center, Albuquerque, NM 87131-5196. Applicants must be eligible to work in the United States. UNM is an Equal Opportunity/Affirmative Action Employer and Educator.

MOLECULAR BIOLOGY/BIOCHEMISTRY POSITIONS

The Department of Biology at the University of Missouri-St. Louis invites applications for two tenure-track positions at the **ASSISTANT/ASSOCIATE PROFESSOR** level, beginning fall 1999. Applicants must have a Ph.D. and postdoctoral experience in molecular biology/biochemistry. Candidates whose research focus is plant molecular biology or biochemistry will be given particular consideration. The successful candidates will be expected to establish strong, externally funded research programs, teach undergraduate and graduate courses in molecular biology or biochemistry, and contribute to the development of our biotechnology program. Applicants should submit curriculum vitae and a statement of research plans and teaching interests. Applicants should arrange to have three letters of reference sent to: **Molecular Biology Search Committee, Department of Biology, University of Missouri-St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121-4499.** Review of applications will begin on January 1, 1999.

The University of Missouri-St. Louis is an Affirmative Action/Equal Opportunity Employer committed to excellence through diversity.

ASSISTANT PROFESSOR OF BIOLOGY

Tenure-track, nine-month faculty position, Assistant Professor, starting August 1999. Earned doctorate in the biological sciences required. Teaching duties include human anatomy and physiology, general biology, laboratories, environmental science. A strong commitment to teaching excellence is required. Biotechnology or environmental science research interest desirable. Submit curriculum vitae, evidence of successful teaching, description of research plans, transcripts, and three letters of reference to: Search Committee, Department of Chemistry and Chemical Engineering, South Dakota School of Mines and Technology, 501 East Saint Joseph Street, Rapid City, SD 57701-3995. Review of complete applications will begin on December 15, 1998, and will continue until the position is filled. SDSMT is an Equal Employment Opportunity/Affirmative Action/ADA Employer and Provider.

ASSISTANT PROFESSORS. The Biology Department of Rutgers University-Camden seeks two broadly trained Eukaryotic Cell and Molecular Biologists for tenure-track positions beginning September 1999. Ph.D. required and postdoctoral experience preferred. These positions entail teaching undergraduate and graduate courses in molecular biology or genetics and participation in introductory biology courses. Please send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. H. Lee, Biology Department, Rutgers University, Camden, NJ 08102. Review of completed applications will begin January 18, 1999, and continue until the positions are filled. Rutgers is an Equal Opportunity/Affirmative Action Employer.

MAYO CLINIC POSTDOCTORAL FELLOWS AND RESEARCH TECHNICIANS

Mayo Clinic, Rochester, Minnesota is establishing a Molecular Medicine Program with several new groups working on gene therapy using different vital systems. In the group of **Dr. Roberto Cattaneo**, motivated postdoctoral fellows and research technicians are required to continue developing measles virus molecular biology, in particular particle assembly and cell entry, with the aim of transforming a safe and effective vaccine strain in a vector for targeting deleterious (cancerous or HIV-infected) cells. Appropriate animal systems will be used to study the *in vivo* effects of the new viruses. Experience in molecular biology is required, training in virology is desirable. Applications along with curriculum vitae and bibliography should be sent to:

Dr. Roberto Cattaneo
Molecular Biology Institute
University of Zurich

Winterthurerstrasse 190, 55-L34, 8057
Zurich, Switzerland

Positions are available beginning January 1999, for two years or eventually longer. An initial working period of several weeks in Zurich, Switzerland may be envisaged. Informal inquiries should be directed to **Dr. Roberto Cattaneo** by email at cattaneo@molbiol.unizh.ch. The deadline for applications is December 1, 1998. *Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.*

PENNSTATE



The Pennsylvania State University's Life Sciences Consortium

The Pennsylvania State University has embarked on a substantial enhancement in the life sciences through its new intercollege Life Sciences Consortium (LSC), dedicated to building excellence and supporting interdisciplinarity. Eight new faculty searches are presently underway in four of the LSC member colleges. These tenure track positions will be co-funded by the college and the LSC. The subject areas, levels and home colleges are listed below.

Eberly College of Science

Bioinformatics	Associate Professor
Computational Biology	Associate Professor

College of Agricultural Sciences

Microbiological Engineering	Associate Professor
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College of Health and Human Development

Behavioral/Functional Neurosciences	Associate Professor
Neural Control of Movement	Assistant Professor

School of Medicine, Hershey Medical Center

Statistical Genetics	Assistant Professor
Protein Degradation in Regulation of Cell Function	Associate Professor
Human Genetics	Associate Professor

A more complete description of each position and the home department, as well as the LSC Integrative Biosciences Graduate Degree Program, can be found at the **LSC web site** (<http://www.lsc.psu.edu>) under Faculty Development. Applicants should send their curriculum vitae, research program summaries, and the names of three professional references to the individual indicated at the web sites or to: Ms. Judith Burns, The Life Sciences Consortium, 519 Wartik Laboratory, The Pennsylvania State University, University Park, Pennsylvania 16802. All application materials will be conveyed to the chairs of the respective search committees.

Penn State is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply



MAYO FOUNDATION ROCHESTER, MINNESOTA POSTDOCTORAL POSITION

A position is available immediately to participate in the development of a national center for genetic testing for Niemann Pick Type C disease. The project will include development of mutation screening assays, analysis of gene expression, study of genotype-phenotype correlation's and delineation of other genes important in the expression of NPC disease. Research will be centered in the DNA diagnostic laboratory with interactions with the biochemical genetics laboratory and with the Department of Medical Genetics.

Experience in molecular techniques is essential. Previous work with mutation screening assays is helpful, but all strong candidates will be considered. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Foundation is a nonprofit clinical practice integrated with education and research in a unified multi-campus system. Interested individuals should send copies of curriculum vitae, summary of research interests, and the names of three references to:

Karen Snow, Ph.D.
Mayo Foundation
Division of Laboratory Genetics
Hilton 970
200 First Street S.W.
Rochester, MN 55905

Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator

Tenure-Track Position in the Molecular Mechanism of Disease

National Human Genome Research Institute (NHGRI)
National Institutes of Health (NIH)

The intramural program of the National Human Genome Research Institute (NHGRI), the National Institutes of Health (NIH) in Bethesda, Maryland, has an opening for a tenure-track scientist to direct an independent research program in genetic studies of disease or development. The successful applicant will become a member of the Genetic Disease Research Branch (GDRB) and will be provided the space and resources needed to pursue a vigorous research program including access to clinical research within the NIH Clinical Center and to core facilities for transgenic and knock-out mice, FACS, confocal microscopy, and genomic mapping and sequencing technology. We are particularly interested in scientists who can take a multidisciplinary approach to the study of genetic disease mechanisms in humans and/or model systems.

Candidates must have a Ph.D. and/or M.D. or V.M.D. as well as advanced training in developmental genetics, embryology, and cell biology. We are seeking to recruit an individual who is ready to pursue an independent research program that combines several of these areas, taking advantage of interactions with the members of the GDRB working in the areas of developmental biology, cell biology, and neuroscience and with scientists within the NHGRI and the NIH campus as a whole.

Competitive salary and benefit packages are available. Please forward curriculum vitae and three references to:

Leslie Biesecker, M.D.
NHGRI
Building 49, Room 4A80
49 Convent Drive
Bethesda, MD 20892-4472
leslieb@helix.nih.gov

Closing Date: March 1, 1999 -NIH is an equal opportunity employer-

For more information see: <http://www.nhgri.nih.gov/DIR/GDRB>

National
Human
Genome
Research
Institute

at the
National
Institutes
of Health



POSITIONS OPEN

MICROBIOLOGIST

Lyon College invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to start August 1999. A Ph.D. in biology, biochemistry, or a related field is required. Previous experience teaching at an undergraduate liberal arts college will be considered advantageous, and postdoctoral training in an appropriate area is preferred. Candidates must possess a commitment to excellence in teaching at the undergraduate level in a liberal arts environment and have experience utilizing biochemical methods to address research questions in microbial systems. The successful applicant will be qualified to teach courses in biochemistry and microbiology, participate with other faculty in teaching introductory biology, and develop a research program involving undergraduate students. Lyon College is a dynamic small liberal arts college affiliated with the Presbyterian Church, which has been consistently ranked, in quality and in value, among the top regional liberal arts colleges in the South. Send application materials, including curriculum vitae, statements of teaching philosophy and research interests, unofficial copies of graduate transcripts, and the names, addresses, telephone numbers, and e-mail addresses of three references to: **Dr. Paul Rosenblum, Chair, Biology Search Committee, Lyon College, 2300 Highland Road, Batesville, AR 72501.** Applications may also be sent as e-mail attachments to e-mail: facsearch@lyon.edu. For more information about Lyon College, visit our website: <http://www.lyon.edu>. Women and minority candidates are urged to apply.

ASSISTANT PROFESSOR CELL DYNAMICS

California Institute of Technology

We invite applications for a tenure-track Assistant Professor position in the Division of Biology at the California Institute of Technology. The applicant is expected to develop a state-of-the-art research program, and to be committed to high-quality teaching as well. We are particularly interested in candidates who take a multidisciplinary approach to investigate basic questions of subcellular regulation and function. The uniqueness of the applicant's proposed research program will be a major consideration. The term of the initial appointment is four years. Applicants who have completed the requirements for a Ph.D. degree should submit, by January 1, 1999, a curriculum vitae, list of publications, and a brief statement of teaching experience, research interests, and plans. In addition, the candidate should arrange to have three letters of reference sent. All materials should be sent to: **Cell Dynamics Search Committee, Division of Biology 156-29, California Institute of Technology, Pasadena, CA 91125 USA.** CalTech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

Marquette University Biology Department invites applications for a tenure-track **ASSISTANT PROFESSOR** beginning August 16, 1999, to teach a one-semester undergraduate laboratory course in cell biology annually beginning August 1999. At the graduate level, the candidate will participate in a team-taught cell biology lecture course and offer a biennial seminar course. The successful candidate will have postdoctoral experience and must develop an extramurally funded research program in some aspect of cell biology. Send curriculum vitae, a statement of research interests, and three letters of recommendation by December 15, 1998, to: **Dr. Brian R. Unsworth, Marquette University, Department of Biology, WLS 112, P.O. Box 1881, Milwaukee, WI 53201-1881.** Department information available on website: <http://mendel.biol.mu.edu>. Marquette University is an Equal Employment Opportunity/Affirmative Action Employer.

SPORE RESEARCH PATHOLOGIST

Position for Research Pathologist (M.D.), at the Research Instructor level, specializing in breast cancer. Candidate will support Research Investigators and will serve as Co-Director of Histopathology Shared Resource. Candidate must be a Board-certified Anatomical Pathologist with a specialty in breast cancer pathology. The applicant should have a demonstrable interest in molecular genetics of breast cancer and a strong background in molecular biology. Please send curriculum vitae, a short statement of research goals, and names of three references to: **Marc Lippman, M.D., Lombardi Cancer Center, Research Building, 3970 Reservoir Road, N.W., Washington, DC 20007.**

POSITIONS OPEN



RESEARCH TECHNICIAN

The Henry M. Jackson Foundation is in need of a Research Technician to support rapid immuno-diagnostic research projects located within the Biological Defense Research Program, Naval Medical Research Center, Bethesda, Maryland. The incumbent will be responsible for production and purification of recombinantly produced antibodies, development and evaluation of immunological assays, and biosensor-linked assays. The incumbent is required minimally to have completed an appropriate Bachelor's degree with two to three years of relevant work experience utilizing biochemical, immunological, and molecular techniques essential to the performance of job specification. Preference will be given to candidates possessing experience with protein purification, chromatography (affinity), immunoassay development (i.e., Elisa), and biacore surface plasmon resonance biosensor knowledge. Must be U.S. citizen in order to be processed for a security clearance. We offer a competitive salary and generous benefits package. Send cover letter and résumé to:

**Human Resources Department, Attn: PL#2980417
Henry M. Jackson Foundation
for the Advancement of Military Medicine
1401 Rockville Pike, Suite 600
Rockville, MD 20852
E-mail: hr@mail.hjf.org**

Equal Opportunity Employment/Affirmative Action.

GENETICIST

The Department of Biology at Emory University seeks a Geneticist to fill a tenure-track position at the **ASSISTANT PROFESSOR** level, although more senior candidates with exceptional qualifications will be considered. Areas of research interest extend from the study of gene function to the comparative analysis of genomes, and all individuals with broad training in genetics are encouraged to apply. The successful candidate will be expected to establish a strong independent research program and will participate in undergraduate teaching within the Biology Department. Biology Department faculty have strong interactions with other scientists at Emory University via interdepartmental graduate programs of the Graduate Division of Biological and Biomedical Sciences and graduate teaching will be done in the appropriate programs. Applicants should submit a curriculum vitae, a statement detailing research accomplishments and future research plans, and should arrange for three letters of recommendation to be sent to: **Dr. Sue Jinks-Robertson, Genetics Search, Department of Biology, Emory University, 1510 Clifton Road, Atlanta, GA 30322.** E-mail: genetics@biology.emory.edu. Review of completed applications will begin January 4, 1999. Information on the Biology Department and Emory's graduate programs can be obtained from the following website: <http://www.emory.edu/BIOLOGY>.

Emory University is an Equal Opportunity/Affirmative Action Employer.

NMR RESEARCH SCIENTIST

The Stanford Magnetic Resonance Laboratory seeks an outgoing and experienced NMR scientist to operate, maintain, and collaborate with researchers on the new Varian 800. You will be responsible for implementation and development of NMR methods for the study of proteins and nucleic acids and will be responsible for the upkeep of the spectrometers in the facility. You will also implement modern NMR methods for macromolecular structure determination, instruct and collaborate with researchers, take responsibility for helium and nitrogen gas fills of the magnets, schedule and prioritize NMR use, and maintain computer resources related to NMR data acquisition and processing. A Ph.D. in chemistry, physics, or biophysics in the area of NMR spectroscopy and experience in the maintenance of an NMR spectrometer are required. Postdoctoral experience in modern protein NMR experiments including heteronuclear NMR and relaxation measurements is desirable. Knowledge of UNIX-based computers preferred. Please send résumé and cover letter to: **Stanford University, Human Resources Services, Req# 1982354, 655 Serra Street, Stanford, CA 94305-6110.** For information on this and other positions, see us on the World Wide Web at website: <http://jobs.stanford.edu>. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

GERIATRIC RESEARCH PSYCHIATRIST ENDOWED CHAIR

The University of Alabama, Birmingham (UAB) Department of Psychiatry, Division of Geriatric Psychiatry is accepting applications for a Board-certified Psychiatrist to fill a research-oriented position at the rank of **ASSOCIATE PROFESSOR** or **PROFESSOR**, tenure-track or tenured. The successful candidate will be appointed to the UAB Geropsychiatry Research Chair. Primary responsibilities to involve establishment, coordination, and direction of a strong translational research program in the division. Clinical and teaching responsibilities also included. Requirements include demonstrated interest and expertise in affective disorders research; well-established research credentials—substantial experience, publication record, and productivity in translational research; demonstrated ability to obtain peer-reviewed, federal funding; evidence of ability to successfully mentor young investigators and to foster and strengthen collaborative ventures with departmental colleagues and other departments and institutions. Competitive salary/benefits package. Applications to: **Robert O. Friedel, M.D., Chair, University of Alabama, Birmingham, Department of Psychiatry, 1700 7th Avenue South, Birmingham, AL 35294-0018.** Affirmative Action/Equal Opportunity Employer.

The Department of Psychology at the University of Michigan (UM) invites applications for an anticipated full-time, **TENURE-TRACK POSITION** in the area of developmental cognitive/affective neuroscience. Pending approval by the College of Literature, Science, and the Arts, the position will begin September 1, 1999. We are especially interested in individuals with interdisciplinary interests that span the area of development and one or more of the following: the biological basis of temperament and emotion, neurological/psychological disorders, and brain and behavior. We seek candidates with primary interests and technical skills in developmental neuroscience, with some preference for individuals with particular expertise in imaging processes. Joint appointments possible with relevant UM units. The primary criterion for appointment is excellence in research and teaching. Responsibilities include graduate and undergraduate teaching, as well as research and research supervision. Send curriculum vitae, letters of reference, copies of recent publications, and a statement of research and teaching interests by no later than January 20, 1999, to: **Chair, Developmental Neuroscience Search Committee, Department of Psychology, University of Michigan, 525 East University Avenue, Ann Arbor, MI 48109-1109.** The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR POSITIONS

HARVARD UNIVERSITY Department of Organismic and Evolutionary Biology

The Department of Organismic and Evolutionary Biology of Harvard University invites applications and nominations for two regular faculty positions at the Assistant Professor level. These positions involve teaching and research in plant developmental evolutionary biology, plant population biology, or plant population genetics.

For further information about the department, see website: www.oeb.harvard.edu and website: www.herbaria.harvard.edu.

Send curriculum vitae and names of three references by February 1, 1999, to:

**Professor Otto Solbrig
Department of Organismic and Evolutionary Biology
Harvard University
22 Divinity Avenue
Cambridge, MA 02138**

Harvard University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE FERMENTATION/CELL CULTURE

Immediate opportunity for M.S./B.S.-level scientist with four-plus years of experience with Baculovirus expression system and cell culture, operation of bioreactors, and molecular biology, and biochemistry techniques; ability to handle 20L bioreactor and equipment in the pilot plant. Send your résumé to: **Agouron Pharmaceuticals, Inc., Code 105/BN, 3301 North Torrey Pines Court, La Jolla, CA 92037.** E-mail: jobs@agouron.com; website: www.agouron.com.

Equal Opportunity Employer.

Funding Opportunities in Genetics of Drug Addiction Vulnerability

The National Institute on Drug Abuse announces a Request for Applications (RFA) to solicit grant applications for research projects to identify genetic variation in humans that increase vulnerability to addiction to, or dependence on, stimulants, narcotics, nicotine, benzodiazepines, barbiturates, cannabis, hallucinogens and/or multiple drugs of abuse. Priority will be given to applications with sufficient statistical power to identify genetic variation or chromosomal locations associated with increased addiction vulnerability. To achieve sufficient statistical power, efficient data collection, and rapid genetic analysis, investigators may need to establish multidisciplinary and multisite efforts. The RFA utilizes the standard investigator initiated grant mechanism (R01) or the program project mechanism (PO1) to achieve these goals. This RFA is a one-time solicitation. It is anticipated that \$7.0 million (including direct and indirect costs) will be available for this initiative. The deadline for application is January 27, 1999 with a deadline of December 28, 1998 for a Letter of Intent. The full text of the announcement and special requirements of the RFA can be found at <http://www.nih.gov/grants/guide/rfa-files/RFA-DA-99-003.html>.

For further information contact: Jonathan D. Pollock, Ph.D., Division of Basic Research, National Institute on Drug Abuse, NIH, Rockville, MD, 20857

Telephone: 301-443-6300

FAX: 301-594-6043

email: jp183r@nih.gov.



POSTDOCTORAL POSITIONS

The following postdoctoral positions are anticipated to be available on or about January 1, 1999.

Neurobiology of thalamus and vision

Dr. S.M. Sherman, Neurobiology and Behavior

Molecular Neurobiology: Mechanosensory genes and mutations in *Drosophila*

Dr. Maurice Kernan, Neurobiology

Molecular Virology: Attachment and entry mechanisms

Dr. Erich R. Mackow, Medicine

Intracellular signaling interactions

Dr. Erich R. Mackow, Medicine

Angiogenesis in diabetic nephropathy

Dr. M. Goligorsky, Medicine

Nitric oxide regulation of cell migration

Dr. M. Goligorsky, Medicine

Atherosclerosis Research: Molecular biology of lipoproteins and their receptors

Dr. David L. Williams, Pharmacological Sciences

Subunit assembly and localization of ion channels in mammalian neurons

Dr. James S. Trimmer, Biochemistry and Cell Biology

Glycobiology: O-linked carbohydrate modifications of EGF-like modules

Dr. Robert S. Haltiwanger, Biochemistry and Cell Biology

Computational Applied Mathematics: Fluid dynamics, elastic-plastic media, flow in porous media

Dr. James Glimm, Applied Mathematics and Statistics

Replication and maintenance of Epstein-Barr virus genomes during latency

Dr. Janet Hearing, Molecular Genetics and Microbiology

Osteoporosis: Molecular, cellular, and histochemical evaluation of the biophysical treatment of musculoskeletal disorders

Dr. Clinton T. Rubin, Center for Biotechnology

Laser Chemistry: Innovative methods of cation spectroscopy using Rydberg molecules

Dr. Phillip M. Johnson, Chemistry

Organic Synthesis: Preparation of designed supramolecular structures

Dr. Joseph W. Lauher and Dr. Frank W. Fowler, Chemistry

Interfacial Enzymology: Investigation of the mechanism of cholesterol oxidase

Dr. Nicole S. Sampson, Chemistry

Biosynthesis and catabolism of glycoproteins in yeast

Dr. William J. Lennarz, Department of Biochemistry and Cell Biology, and the Institute for Cell and Developmental Biology

Cutaneous gene therapy

Dr. Lorne Taichman, Oral Biology and Pathology

Submit resumes by November 24, 1998 to: George Meyer, Office of the President, State University at Stony Brook, Stony Brook, NY 11794-0701; e-mail: postdocads@notes.cc.sunysb.edu

The State University at Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer.

POSITIONS OPEN

PLANT GENOMICS UNIVERSITY OF GEORGIA

Positions are available to study the organization, function, and evolution of the genomes of major crops and selected botanical models, as part of new National Science Foundation-sponsored initiatives on sorghum, rice, sugarcane, maize, and cotton. We will occupy a 4,800-square foot genomics facility in 1999, and expand into a new biotechnology center in early 2000. The following positions are available immediately:

ASSISTANT RESEARCH SCIENTIST (one), or **SENIOR RESEARCH COORDINATORS** (two): postdoctoral experience, outstanding publication record in molecular genetics, proven personnel management skills and grantsmanship. Must be eligible to hold U.S. federal grants.

POSTDOCTORAL SCIENTISTS (four): Ph.D. with excellent publication record and strong credentials in modern molecular genetics/genomics. Research areas include positional cloning, integration of genetic and physical maps, comparative and functional genomics.

RESEARCH COORDINATORS (two): M.S. and relevant experience in molecular genetics/genomics, excellent organizational skills, personnel and data management capabilities.

GRADUATE RESEARCH ASSISTANTS (one to two): strong undergraduate academic record, commitment to career development. Laboratory skills and publication record a plus.

Competitive salaries commensurate with credentials, excellent benefits. Submit curriculum vitae, selected reprints, and telephone numbers plus e-mail addresses of at least three professional references to: **Dr. Andrew H. Paterson, c/o Office of the Vice-President for Research, University of Georgia, Athens, GA 30602. E-mail: htrucker@arches.uga.edu. Equal Opportunity Employer.**

ENDOWED TRANSLATIONAL RESEARCH POSITION

Birmingham. University of Alabama at Birmingham, Department of Psychiatry and Behavioral Neurobiology, accepting applications from Board-certified Psychiatrists for research position in Division of Behavioral Neurobiology. Successful candidate will hold the C. B. Ireland Endowed Chair for psychiatric research. Expertise in basic biomedical mechanisms underlying the causes and treatment of schizophrenia or other serious mental illness required, with record of substantial experience and productivity in translational research. Must also have demonstrated clinical expertise in designated field. Must have demonstrated ability to successfully mentor young investigators and to foster and strengthen collaborative ventures with departmental colleagues and with other departments and institutions. Must have evidence of substantial and sustained extramural research funding. Teaching and clinical duties included. Position at rank of **ASSOCIATE PROFESSOR** or **PROFESSOR**. Competitive salary/benefits package. Applications to: **Robert O. Friedel, M.D., Chair, University of Alabama at Birmingham Department of Psychiatry, 1700 7th Avenue South, Birmingham, AL 35294-0018. Affirmative Action/Equal Opportunity Employer.**

LECTURER POSITION UNIVERSITY OF CALIFORNIA, SANTA BARBARA

The Department of Chemistry at University of California, Santa Barbara seeks application for a career Lecturer position with potential security of employment. Duties will include instruction at the introductory level; administration of general and organic laboratory courses; orientation, training, supervision, and evaluation of teaching assistants; curricular development and innovation; and coordination of departmental outreach activities to K-12 schools. A Ph.D. degree and at least three years of relevant experience is desired. Demonstrated excellence in teaching, excellent interpersonal skills, familiarity with modern chemical instrumentation, instructional computing, and contemporary methods of instruction required. Appointment can begin April 1, 1999. Salary commensurate with experience. Send résumé, statement of professional interests, and arrange to have three letters of reference to: **Chair, Lecturer Search Committee, Department of Chemistry, University of California, Santa Barbara, CA 93106-9510.** Position is open until filled; however, applications received by December 20, 1998, will be given primary consideration. UCSB is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

COASTAL INSTITUTE DIRECTOR UNIVERSITY OF RHODE ISLAND

The Coastal Institute is a new University of Rhode Island initiative to bring natural and social sciences to bear on critical science and public policy issues related to the coastal and marine environment. The Institute will comprise internal faculty and external partners, who will work as a multidisciplinary organization to address complex and multifaceted problems of coastal zones. The Institute builds on the University's long-standing excellence in marine and environmental studies, and is housed in three new buildings with state-of-the-art facilities.

The Director of the Coastal Institute will lead this initiative. Working with University and non-University partners, the Director will identify issues and problems for investigation and action, formulate the Institute's research agenda, and develop proposals. S/he will also rigorously maintain the Institute as a neutral location in which controversial issues can be discussed and researched. The Director will report to the Vice-Provost for Marine Programs, will directly supervise a small Institute staff, and will represent the Institute within and outside the University.

The Director will have outstanding qualifications in the fields of science or public policy, and administrative and facilitative skills to effectively coordinate the diverse interests and abilities of faculty and partners in the institute. A Ph.D. or equivalent degree or experience is required, as are demonstrated abilities to obtain funding, to manage interdisciplinary projects, and to study coastal issues. Also required are leadership abilities and entrepreneurial spirit necessary to establish and maintain the Institute as an internationally prominent organization. The position may include a tenure-track appointment within an academic department of the University.

For more information on the required and preferred qualifications, visit the Coastal Institute's website: <http://www.gso.uri.edu/ci/director.html> or contact: **Dr. Margaret Leinen, Vice Provost for Marine Programs, e-mail: mleinen@gso.uri.edu** or mail to: **University of Rhode Island, Kingston, RI 02881 USA.** All material available at the above website can also be obtained by **Telephone: 401-874-2987; FAX: 401-874-4017.**

Submit a letter of application and résumé to: **Margaret Leinen, Search Committee Chair (Log #091249), University of Rhode Island, P.O. Box G, Kingston, RI 02881 USA.** Applications will be evaluated starting December 14, 1998, and until the position is filled. *The University of Rhode Island is an Affirmative Action/Equal Opportunity Employer and is committed to increasing the diversity of its faculty, staff, and students. Persons from underrepresented groups are encouraged to apply.*

ASSISTANT PROFESSOR MICROBIAL PATHOGENICITY

Florida International University, the State University of Florida at Miami, seeks to fill a tenure-track position to start August 1999. The successful candidate will teach microbial pathogenicity and other undergraduate/graduate courses in her/his specialty, and will establish a successful research program. More detailed information about the position can be found at website: <http://www.fiu.edu/~biology/micro.html>. Ph.D. required; postdoctoral experience preferred. To apply, send curriculum vitae, statements of research and teaching goals, and three letters of reference by January 8, 1999, to: **John Makemson, Chair, Microbiology Search Committee, Department of Biological Sciences, Florida International University, Miami, FL 33199.**

FIU is an Equal Access/Affirmative Action/Equal Opportunity Employer.

ASSOCIATE/STAFF SCIENTIST IMMUNOBIOLOGY/ASSAY DEVELOPMENT

Oncogene Research Products is a worldwide supplier of specialty antibodies, reagents, and assay kits to the biomedical research community. We seek an Associate/Staff Scientist to develop reagent for assays and explore assay formats and reagents for the study of apoptosis, cell proliferation and metastasis. Requires Bachelor's degree and six-plus years, or Master's degree with three-plus years of industrial hybridoma research experience or a recent Ph.D. with hybridoma research experience. We offer a stimulating, professional environment with competitive salaries and benefits. Submit your résumé with salary requirements to: **Attn: Human Resources, Oncogene Research Products, Code: TM, 84 Rogers Street, Cambridge, MA 02142.**

POSITIONS OPEN

STAFF SCIENTIST. The Gene Targeting Core Facility, National Institute of Dental and Craniofacial Research (NIDCR), NIH is searching for a collaborative Staff Scientist with experience in transgenic technology, molecular biology, and craniofacial developmental biology to assist Investigators with establishment of transgenic and related molecular approaches to the study of gene function, and to conduct research on craniofacial and tooth development. NIH Staff Scientists are considered to have highly specialized and superb scientific skills and expertise, and perform critical functions as key members of a team of researchers whose project goals are defined by a tenured Principal Investigator. The resources available to a Staff Scientist are derived from those assigned to the Principal Investigator, including space, funds, equipment, and personnel. Staff Scientist appointments are made initially for up to five years; additional extensions may be approved contingent upon sustained high-level performance and continued need for the Staff Scientists capabilities. Candidates for this position must have an M.D.-Ph.D.; be U.S. citizens, resident aliens, or nonresident aliens with a valid employment-authorized visa; and have a strong peer-reviewed publication record in the stated areas of research. Salary commensurate with qualifications.

Applicants may apply by submitting a curriculum vitae, bibliography, copy of the Doctoral degree(s), and at least two letters of reference from noncollaborators. Further information about the position may be obtained from: **Ms. Judith Dulovich, NIDCR Personnel Office, Building 31, Room 2C39, 31 Center Drive, MSC 2290, Bethesda, MD 20892-2290. Telephone: 301-496-6971.** All applications materials must be received by the closing date of November 27, 1998.

NIH is an Equal Opportunity Employer.

Faculty positions in molecular neurobiology. The Ohio State University is in the midst of a major initiative in the molecular life sciences that will include at least 30 new faculty positions. The University has made a major commitment to develop an outstanding interdisciplinary program in the molecular neurosciences. Applications are invited for two tenure-track faculty positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The new faculty members will be expected to develop independent research programs using molecular approaches to areas such as sensory systems, neuroimmunology, injury, degeneration, and regeneration in the nervous system. The successful candidates will hold positions in either the College of Medicine and Public Health or Dentistry, with a joint appointment in the Neurobiotechnology Center. A transgenic mouse facility and other excellent support and instrumentation facilities are available. Applicants should submit a curriculum vitae, statement of research plans, and arrange to have three letters of reference sent to: **Dr. Michael S. Beattie, Chair, Molecular Neurobiology Search Committee, 4072 Graves Hall, 333 West Tenth Avenue, Columbus, OH 43210-1239.** Review will begin on December 31, 1998. Visit our website: <http://www.med.ohio-state.edu/neuro/neurohome.html>. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disability are encouraged to apply.*

COPY EDITOR. *Nature Neuroscience*, a monthly journal from the publishers of *Nature*, is seeking a Copy Editor who will work closely with editors and authors to make complex technical manuscripts accessible to the widest possible readership. This challenging job involves substantially editing research articles on a broad range of neuroscience topics to make them clear, concise, and consistent with our style.

The successful candidate will have a degree in biological science, excellent literary abilities, and a commitment to the communication of scientific ideas. Other requirements include routine computer skills, an eye for detail, and the ability to meet regular deadlines. Graduate coursework or laboratory experience in neuroscience is a significant advantage. Copy editing experience is helpful, but a talent for working with words is more important.

This full-time position, based in Manhattan, offers a competitive salary and benefits, a lively work environment, the chance to learn about important developments in all areas of neuroscience, and the opportunity to have a significant influence on a major scientific journal. Please send cover letter, curriculum vitae, and example(s) of scientific text on which you have worked (stating your contribution) to: **The Editor, Nature Neuroscience, 345 Park Avenue South, New York, NY 10010-1707. FAX: 212-696-0978; e-mail: neurosci@natureny.com** as soon as possible, and no later than November 23, 1998.

RESEARCH CHAIR POSITION

The Department of Surgery, Section of Plastic and Reconstructive Surgery, at the University of Chicago invites applicants for a newly created academic research chair in Craniofacial Biology. This chair was endowed by Rhoda and Bernard Sarnot. Candidates are expected to have achieved international peer recognition in basic science research with specific focus in the area of tissue engineering as this might apply to reconstruction of deformities of the head and neck. The successful candidate will demonstrate commitment to teaching and to independent and original research and will be appointed within the Section of Plastic and Reconstructive Surgery. This chair represents an

excellent opportunity for directed investigational pursuits having clinical applicability.

The University of Chicago and its Medical Center are Affirmative Action/Equal Opportunity Employers. Applications from women and representatives of minority groups are encouraged.

Please submit a curriculum vitae and the names of three references to: **Robert Walton, M.D., Chief of Plastic Surgery or Bruce L. Gewertz, M.D., Chair of Surgery** University of Chicago 5841 S. Maryland Ave., MC5029 Chicago, IL 60637.



THE UNIVERSITY OF CHICAGO

THE J. DAVID GLADSTONE INSTITUTES

University of California,
San Francisco

POSTDOCTORAL FELLOWSHIP

Available in the laboratory of **Dr. David Dichek**. Projects are focused on understanding the molecular pathogenesis of atherosclerosis and on developing gene-based strategies to prevent vascular disease. Experimental systems include viral vector-mediated gene transfer in adult animals and generation of transgenic mice with germ-line targeting to the artery wall. Position available immediately. Candidate should possess an M.D. or Ph.D. and have a strong background in molecular biology. Experience with molecular virology is highly desirable.

Please send CV and references to:
#C98-047, Gladstone Institutes, P.O.
Box 419100, San Francisco, CA 94141;
or fax to (415) 431-4039.

Email: hr@gladstone.ucsf.edu
Web: <http://gladstone.ucsf.edu>

Equal Opportunity/Affirmative Action Employer



MAYO CLINIC POSTDOCTORAL FELLOWS AND RESEARCH TECHNICIANS

Postdoctoral fellow and research technician positions are available immediately to work in the laboratory of **Dr. Richard Vile** within the Molecular Medicine Program at Mayo Clinic, Rochester, Minnesota. The specific interests of this group are the construction of novel, targeted viral vectors and the development of gene transfer strategies for the treatment of tumors using both cytotoxic and immunostimulatory genes. Postdoctoral fellows are required with experience in molecular biology, tumor immunology, and virology (particularly adenoviral vectors). Technicians are required with experience in molecular biology, cell culture, and/or laboratory management. Applications along with curriculum vitae and all relevant publications should be sent to:

Dr. Richard Vile
c/o Ms. Maureen Craft
Mayo Clinic Rochester
Guggenheim 18th Floor
200 First Street Southwest
Rochester, MN 55905

Informal inquiries should be directed to **Dr. Richard Vile** by e-mail at r.vile@icrf.icnet.uk or by phone at 00 44 181 383 8584. The deadline for applications is December 1, 1998.

Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR THE UNIVERSITY OF TEXAS AT EL PASO DEPARTMENT OF BIOLOGICAL SCIENCES

The Department of Biological Sciences and the Environmental Science and Engineering Program at University of Texas at El Paso (UTEP) seek to fill a tenure-track position for an applicant with a focus on Southwestern ecosystems. Applicants with strong quantitative skills and an interest in plant community ecology are especially welcome. Available facilities include a 37,000-acre desert field station, 372-acre wetlands wildlife preserve, and a remote sensing laboratory. More information is located at [website: www.utep.edu/biology](http://www.utep.edu/biology). Candidates should have a strong commitment to teaching and research at both the undergraduate and graduate level. Rank is open and salary is competitive. Submit résumé, statement of research interests, teaching philosophy, and listing of three current references (name, address, telephone) to: **Dr. William MacKay, University of Texas at El Paso, Department of Biological Sciences, El Paso, TX 79968-0519.** *The University of Texas at El Paso does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in employment or the provision of services.*

RESEARCH SCIENTISTS AND POSTDOCTORAL FELLOWS IMMUNOLOGY

Five positions are immediately available to study molecular and cellular basis of T cell activation and tumor immunity with **Dr. Pan Zheng** and **Dr. Yang Liu**. Projects include molecular basis for T cell costimulation (*PNAS* 95:6284, 1998; *JEM* 185:1327, 1997; **186:1787**, 1997; **187:1151**, 1998), lineage relationship between memory and effector T cells (*JEM* 185:251, 1998), self-nonspecific discrimination in anti-tumor immunity (*JEM* 179:1205, 1994; *Jl* 155:5323, 1995; **159:360**, 1996; *Cancer Research* 58:3376, 1998) and molecular mechanisms of tumor evasion of host immunity (*Nature*, in press, 1998). Qualifications: Research Scientists, Ph.D., more than two years of postdoctoral training, significant publications. Postdoctoral Fellows, Ph.D. in molecular biology and/or immunology. Send application to: **Yang Liu, Kurtz Chair Professor of Pathology, Ohio State University Medical Center, FAX: 614-688-8152; e-mail: liu-3@medctr.osu.edu or zheng-1@medctr.osu.edu.**

RESEARCH SCIENTIST TRANSGENIC MOUSE CORE FACILITY Purdue University Cancer Center

The Purdue University Cancer Center has an immediate opening for a qualified individual to assume operational responsibility for the Cancer Center's newly developed and fully operational Transgenic Mouse Core Facility (TMCF). The TMCF offers both knockout and conventional transgenic services to the Purdue University community. Responsibilities and duties for this position include the generation of transgenic mice by pronuclear injection, gene targeting in ES cells, the derivation of chimeric mice, plus supervision of support staff. The qualified candidate will have an M.S. and Ph.D. degree, experience in both ES cell culture and transgenic procedures, plus excellent communication and interpersonal skills. Qualified applicants should send their curriculum vitae and the names of at least three references to: **Transgenic Mouse Core Facility Position, Purdue University Cancer Center, Hansen Life Sciences Research Building, West Lafayette, IN 47907-1524.**

Purdue University is an Equal Opportunity Employer.

The Department of Neurology at the University of Pennsylvania School of Medicine is recruiting several faculty members for an expansion of its laboratory-based faculty. The department seeks applications from promising or established researchers in the molecular basis of neurologic disease who are interested in joining a dynamic institution with an outstanding research infrastructure. Generous start-up funds and superb laboratory space have been committed for these faculty positions, which may be at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** levels, in the tenure track. Applicants should send a curriculum vitae, a brief statement of research interests, and the names of three references to: **Francisco Gonzalez-Scarano, M.D., Department of Neurology, Clinical Research Building, 415 Curie Boulevard, Philadelphia, PA 19104-6146.** *The University of Pennsylvania Medical Center is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and underrepresented minorities.*

POSITIONS OPEN

EXPERIMENTAL PHYSICIST. University of Colorado and National Institute of Standards and Technology, JILA, a joint Institute composed of faculty members from both the University of Colorado and the National Institute of Standards and Technology, will have a number of openings during the next few years and is conducting a search for outstanding Experimental Physicists and Chemical Physicists to join the JILA faculty. Junior or senior candidates will be considered, although junior candidates are preferred. The individuals selected will be expected to develop a creative, independent, and broad-based experimental program, establish an active research group including University graduate students and Postdoctoral Research Associates, acquire outside grants and contracts, and assume teaching responsibilities. JILA's research encompasses the areas of atomic and molecular interactions, new states of matter (Bose-Einstein condensates), cooling and trapping of matter, optical and laser physics, nonlinear optics and optical techniques, chemical physics, materials processing and semiconductor fabrication, nanometrology, precision measurement, and gravitational physics. We are looking for individuals in these and closely related areas of research who will help JILA evolve into the twenty-first century, e.g., through developing the laser as a precise measurement tool, determining fundamental constants and testing the fundamental postulates of physics, exploiting Bose-Einstein condensation for metrology and low-temperature physics, devising new ways to direct and control atoms and molecules, characterizing chemical processes and their interactions with nanostructures, or exploring some new scientific area.

The salary range is \$50,000 to \$80,000, depending upon experience and qualifications. Interested persons should send a curriculum vitae, a detailed proposal of research (two to three pages) and arrange for three letters of recommendation to be sent to: **The Search Committee, JILA, Campus Box 440, University of Colorado, Boulder, CO 80309-0440.** Candidates whose applications are received by January 1, 1999, will be reviewed for a start date between June and September 1999. See the JILA website: <http://jilawww.colorado.edu>. *The University of Colorado at Boulder is committed to diversity and equality in education and employment.*

PROFESSOR/CURATOR IN PLANT SYSTEMATICS HARVARD UNIVERSITY Department of Organismic and Evolutionary Biology

The Department of Organismic and Evolutionary Biology seeks to appoint a Plant Systematist at the tenure level to develop a program of research and teaching in plant systematics. As Curator of the vascular plant collections in the Harvard University Herbaria, the incumbent will be responsible for oversight of the operations of the collections and for strategic planning.

For further information about the department, see [website: www.oeb.harvard.edu](http://www.oeb.harvard.edu) and [website: www.herbaria.harvard.edu](http://www.herbaria.harvard.edu).

Send a letter of nomination or application including curriculum vitae, a statement of teaching and research interests, and the names and addresses of at least three professional references by February 1, 1999, to:

**Donald H. Pfister
Harvard University Herbaria
22 Divinity Avenue
Cambridge, MA 02138**

Harvard University is an Affirmative Action/Equal Opportunity Employer.

CEREBROVASCULAR POSTDOCTORAL POSITION University of Medicine and Dentistry of New Jersey

Postdoctoral position immediately available to study the mechanisms through which excitatory amino acids control the relationship between cerebral blood flow and oxygen consumption. Long-term Postdoctoral Training position for Ph.D./M.D. applicant experienced in the study of either cerebral blood flow or neuroscience.

Send curriculum vitae, reprints, names and addresses of references to: **Harvey R. Weiss, Ph.D., Department of Physiology and Biophysics, University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854.** Visit our website: <http://www.umdj.edu/hrweb/>. *UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Disabled/Veterans, and a member of the University Health System of New Jersey.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITIONS

Positions are available immediately for Ph.D. or M.D.-Ph.D. scientists trained in cell and molecular biology or protein chemistry to engage in full-time investigative research in the Department of Pathology at the University of Virginia. These positions are offered by **Dr. Steve Gonias**: LDL receptor homologues and urokinase receptor in cellular motility; α_2 -macroglobulin in cellular growth; **Dr. Adam Goldfarb**: structure-function studies of SCL/Tal, a basic helix-loop-helix transcription factor involved in hematopoietic stem cell development and leukemogenesis; and **Dr. Chris Moskaluk**: identification of novel genetic and RNA expression changes in the progression of human prostate cancer. For more information on these research programs, please review our Internet sites at [website: www.med.virginia.edu/medicine/clinical/pathology/faculty/faculty.html](http://www.med.virginia.edu/medicine/clinical/pathology/faculty/faculty.html). Applicants should submit a letter of interest, curriculum vitae, and the names of three references to the specific faculty member listed above at: **The University of Virginia Health Sciences Center, Department of Pathology, Box 214, Charlottesville, VA 22908.** *The University of Virginia is an Affirmative Action/Equal Opportunity Employer.*

MOLECULAR BIOLOGIST

RESEARCH ASSOCIATE position available for a Doctoral-level scientist with one to three years of postdoctoral experience to work on the isolation and characterization of receptors with biologically important functions. Candidates should have a Ph.D. in either molecular biology, biochemistry, or any other relevant discipline. Successful candidate will be expected to take a leadership role in the cloning, expression, and mutagenesis of these novel receptors. A record of publication in quality journals is highly desirable. Please send a curriculum vitae, the names of three references, and copies of relevant publications to:

**Dr. Salvatore V. Pizzo, Chairman
Department of Pathology
Box 3712
Duke University Medical Center
Durham, NC 27710**

No telephone calls please. *Duke University Medical Center is an Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIP SCIENCE EDUCATION

Michigan State University invites applications for a full-time Postdoctoral Associate position in the Lyman Briggs Residence Science School. This individual will be involved with the development, implementation, and assessment of World Wide Web-based curricular materials for a first-year biology sequence. Information about the position can be found at the following website: <http://lecture.life.msu.edu/~hughes/position.html>. Send all application materials by December 15, 1998, to: **Estelle J. McGroarty, Associate Dean, College of Natural Science, 103 Natural Science Building, Michigan State University, East Lansing, MI 48824.**

The start date is negotiable; the salary will be based upon qualifications. *Michigan State University is an Affirmative Action/Equal Opportunity Employer.*

CELL/MICROBIOLOGIST. Warren Wilson College, a liberal arts college in the mountains just outside of Asheville, North Carolina, seeks to fill a full-time continuing position (beginning August 1, 1999) in cell biology/microbiology. The successful candidate will be able to teach courses in microbiology, biochemistry, genetics, cell biology, general biology, and human biology. Responsibilities will also include supervising undergraduate research projects. To apply, send cover letter, curriculum vitae, official graduate transcripts, evidence of teaching excellence, and three letters of reference to: **Dr. Virginia McKinley, Vice President for Academic Affairs, Warren Wilson College, P.O. Box 9000, Asheville, NC 28815-9000.** Review of applications will begin December 1, 1998.

MOLECULAR BIOLOGIST. Ph.D. or M.S. plus extensive experience needed for research on transgenic striped bass, including transfection with pantropic retroviral vectors, naked DNA plasmids. Experience required in DNA hybridization, extraction, PCR analysis, basic molecular biology. Experience desired in microinjection, electroporation, transgene development, fish spawning, experiment design, computer analysis. Contact: **Kent SeaFarms Corp., 11125 Flintkote Avenue, Suite J, San Diego, CA 92121.** FAX: 619-452-5765; e-mail: info@kentsafarms.com.

Research Scientist

Cedars-Sinai Medical Center's Department of Obstetrics & Gynecology, Division of Gynecologic Oncology, is recruiting for a PHD, MD or MD/PHD Scientist. The Department consists of faculty with research interests in cellular and molecular biology. Preference will be given to individuals with an exciting research program focused on ovarian and/or breast cancer. An interest in tumorigenesis, molecular genetics, growth factors and translational studies is highly desired. We offer a busy clinical service and tumor bank which provides ample human tumor specimens for study.

Cedars-Sinai is affiliated with the University of California at Los Angeles' School of Medicine and all academic faculty appointments must meet the criteria of the University for Assistant or Associate level.

Applications should include a curriculum vitae, statement of research interests, status of current funding, and salary requirements to: **Rebecca Chandler, Human Resources Manager/Academic Services, Cedars-Sinai Medical Center, 8723 Alden Drive, SSB110, Los Angeles, CA 90048, FAX: (310) 358-9243. Email: chandler@cshs.org. EOE/AA** Women and minority applicants are strongly encouraged.



CEDARS-SINAI MEDICAL CENTER.

GLOBAL OPPORTUNITIES

THE AUSTRALIAN NATIONAL UNIVERSITY Lecturer in Invertebrate Zoology

The Division of Botany and Zoology in the Faculty of Science is seeking to attract an outstanding Lecturer (Level B)/Researcher to fill a full-time position in invertebrate zoology, particularly in the field of either ecology, behaviour or whole-organism genetics. The successful applicant will be involved in developing, organising and contributing to undergraduate units in zoology, in supervision of honours and graduate students, and also will be expected to develop a strong independent research program. The position is available from 1 July 1999.

Enquiries to Dr Penny Gullan, Acting Head, Division of Botany and Zoology, telephone: (61 2) 6249 2866 or email: Penny.Gullan@anu.edu.au. Additional information regarding the Division may be obtained from the internet address <http://online.anu.edu.au/BoZo/>. Further particulars, including selection criteria, should be obtained before applying from the Staffing Recruitment Officer, telephone: (61 2) 6249 5903; facsimile: (61 2) 6249 5011 or email: employment.services@anu.edu.au. Applications should be written against the selection criteria and submitted in duplicate to the Staffing Recruitment Officer, Chancery 2A, The Australian National University, CANBERRA ACT 0200, quoting reference number FS20.10.1, including CV, list of publications and the names and addresses (email if available) of three referees.

Closing date: 8 January 1999.

Q I M R



**The Queensland Institute
of Medical Research**

DIRECTOR

The Queensland Institute of Medical Research seeks to appoint a successor to Professor Lawrie Powell AC FTSE, who will retire on 31 December 1999.

The Queensland Institute of Medical Research is a large medical research institute of international standing located within the grounds of Queensland's most comprehensive teaching hospital complex and currently has 385 scientific and support staff. The existing facilities will be expanded during the next four years by the construction of an adjoining 11 story building to house a cancer research centre, \$63 million having been committed to the project.

The Institute is supported financially by block funding from the National Health and Medical Research Council of Australia as well as the Queensland Government, QIMR Trust, the Queensland Cancer Fund, the Leukaemia Foundation and other sources.

Currently research in the Institute is in three main fields with extensive interaction between groups: **Infectious diseases** (the Molecular Parasitology Unit, the Malaria and Arbovirus Unit and the Epstein-Barr Virus Unit); **Cancer and Cell Differentiation** (the Cancer and Cell Differentiation Units and the Leukocyte Biology Unit); **Clinical Sciences and Population Health** (the Clinical Sciences Unit and Epidemiology Unit).

The Director is the chief executive officer and scientific leader of the Institute and is responsible to the Institute Council. The appointee will be accorded the title of Professor in The University of Queensland.

The Chairman of the Institute Council welcomes enquiries about the position and an information package will be forwarded on request. Written applications, including a full curriculum vitae and the names, addresses and fax numbers of 3 referees, should be marked "Private and Confidential" and sent no later than **Friday, 8 January 1999** to:

**Sir Bruce Watson, Chairman
The Queensland Institute of Medical Research
Research Council
The Bancroft Centre
300 Herston Road, Herston QLD 4029,
Australia**

**Telephone: 61+7+3362 0203
Confidential Fax: 61+ 7+3362 0110
Website: <http://www.qimr.edu.au>**

POSITIONS OPEN

POSTDOCTORAL POSITIONS NATURAL PEPTIDE ANTIBIOTICS

Two Postdoctoral positions are available to study antimicrobial peptides found in the cells and secretions of humans and animals. For one position, centering on peptide purification and structure-function analysis, prior experience with RP-HPLC is useful. For the other, which involves regulation of antimicrobial peptide synthesis and processing, a background in molecular biology is required. Antimicrobial peptides play an important role in innate host resistance and may provide new antibiotics for medical and veterinary use (*Trends Biotechnol.* 16:82-8, 1998). The peptides currently under study in our laboratory include human hCAP-18/LL-37 (*Antimicrob. Agents Chemother.* 42:2206-14, 1998), protegrins (*Infect. Immun.* 66:2486-93, 1998), secretory phospholipase A2 (*Infect. Immun.* 66:2791-7, 1998) and others. Please send letter of application, curriculum vitae, summary of research interests, and the names and telephone numbers of at least three references before December 15, 1998, to:

Robert I. Lehrer, M.D.
Department of Medicine
UCLA Center for the Health Sciences
Los Angeles, CA 90095-1690
Telephone: 310-825-5340
FAX: 310-206-8766
E-mail: rlehrer@ucla.edu

UCLA is an Equal Opportunity/Affirmative Action Employer.

EXPERIENCED SENIOR SCIENTIST CANCER CELL BIOLOGY

Precision Therapeutics, Inc. (PTI), a company focused on characterizing patient tumor cells, is seeking an experienced scientist. Qualifications include a Ph.D. in molecular or cell biology with significant cancer research experience. Scientific creativity, independence, and excellent written and verbal communication skills required.

PTI offers a competitive salary and excellent benefits. Please mail/FAX letter of interest, a summary of research accomplishments, and a curriculum vitae to: Precision Therapeutics, Inc., Attn: Dennis Burholt, Ph.D., Scientific Director, 3636 Boulevard of the Allies, Pittsburgh, PA 15213. FAX: 412-688-1015.

NUCLEAR RECEPTORS AND CHROMATIN

A funded POSTDOCTORAL POSITION will be available February 1999 in a newly established laboratory in the Section of Biochemistry at Cornell University, Ithaca, New York. Projects are aimed at understanding the basic mechanisms of transcriptional activation by nuclear receptors and coactivators using molecular and biochemical approaches, including *in vitro* chromatin assembly and transcription systems (see: *Genes Dev.* 12:331-342, 1998). Biochemists and Molecular Biologists with a recent Ph.D. are encouraged to apply. Send curriculum vitae and names of three references to: W. Lee Kraus, Ph.D., Department of Biology, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0347. E-mail: lkraus@ucsd.edu.

POSTDOCTORAL POSITION

A Postdoctoral position is available for the study of the role of molecular pathways of a novel antiapoptotic gene in neurodegenerative disease, cancer, and senescence. Competence in molecular biological techniques, cell cycle analysis, lipid biochemistry, yeast work, and apoptotic techniques are desirable but not necessary. Please send your curriculum vitae and names of three references to: Rose-Mary Boustany, M.D., Duke University Medical Center, MSRB Box 2604, Durham, NC 27710. FAX: 919-681-8090; e-mail: boust001@mc.duke.edu; Telephone: 919-681-6220. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITIONS (four openings) for programs on fisheries and food webs, river-floodplain ecology, and theoretical limnology. Contact: Professor Stephen Carpenter, Professor James Kitchell, or Professor Emily Stanley, Center for Limnology, University of Wisconsin, Madison, WI 53706 USA. E-mail: srcarp@facstaff.wisc.edu, kitchell@mac.wisc.edu, or ehstanley@facstaff.wisc.edu. For detailed description and application information see website: www.limnology.wisc.edu/employment/employment.html.

POSITIONS OPEN



POSTDOCTORAL FELLOWSHIPS

Fellowships for the National Research Service Award Program of the National Institute of Diabetes and Digestive Kidney Diseases (NIDDK), National Institutes of Health (NIH) at Stony Brook are available in cell and molecular biology of metabolic diseases for candidates with Ph.D., Sc.D., M.D., or equivalent. The program benefits from nearly 30 NIH-supported Trainers with state-of-the-art research programs in areas of cell signaling relevant to diabetes, endocrine, and metabolic diseases. This institutional postdoctoral training program is interdisciplinary, interdepartmental, and interinstitutional by design, supported by a regional interaction with Brookhaven National Laboratory and Cold Spring Harbor Laboratory, and is located on the campus of Stony Brook, 50 miles west of Manhattan on scenic Long Island Sound. Current research opportunities include Nada Abumrad: fatty acid transporters; Wadie Bahou: proteases and endothelial cell pathology; Dafna Bar-Sagi: cell signaling by *ras*; Eugenio Cersosimo: counter regulation in diabetes; Ira Cohen: molecular and cellular cardiovascular research; Peter Garlick: controlling protein homeostasis; Michael Frohman: phospholipase D and membrane vesicular trafficking; Marie Gelato: IGF-1 action; Michael Goligorski: angiogenesis, i NO, and diabetes; Roger Johnson: adenyl cyclase biology; Jamie Konopka: G-protein-coupled receptors in yeast; William Lennarz: signaling in development; Craig Malbon: heterotrimeric G-proteins and insulin action; Margaret McNurlan: insulin action in muscle; Todd Miller: tyrosine kinases; Andrew Morris: phospholipid signaling; Mario Rebecchi: phospholipase regulation; Nancy Reich: cytokine signaling; Suzanne Scarlata: insulin receptor structure; Hsien-yu Wang: G-proteins and development. U.S. citizens or permanent residents only are eligible for NIH-supported Fellowships. Applicants should send a curriculum vitae, three references, and a brief letter of research interest to: Craig C. Malbon, Director, c/o Department of Molecular Pharmacology, SUNY/Stony Brook, Stony Brook, NY 11794-8651. FAX: 516-444-7696; e-mail: craig@pharm.som.sunysb.edu. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN MOLECULAR, GENETIC, AND BEHAVIORAL STUDIES OF OBESE ANIMAL MODELS

Nine Postdoctoral Research positions are available to study molecular, genetic, and behavioral aspects of obesity in natural and transgenic animal models. These funded positions will support work in several areas, including (1) genetic mechanisms associated with the regulation of energy expenditure in the development of obesity (Dr. Kozak, four positions); (2) genetic and molecular basis for dietary obesity and macronutrient selection (Dr. Bray and Dr. York, two positions); (3) CRH/urocortin role in the control of energy balance (Dr. York and Dr. Harris, one position); (4) serotonergic systems in dietary-induced obesity (Dr. Bray and Dr. York, one position); (5) molecular/neurochemical basis of stress-induced behavior (Dr. Harris, one position). Preferences will be given to candidates with experience in molecular and cellular biology and/or behavioral physiology and neurochemistry. Send curriculum vitae and names of three references either by mail or e-mail to: Dr. David York or Dr. Leslie Kozak (according to position), Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA 70808-4124. E-mail: yorkda@mhs.pbrc.edu, kozaklp@mhs.pbrc.edu, or harrisrb@mhs.pbrc.edu. Pennington Biomedical Research Center is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately to characterize (1) DNA repair or (2) macromolecular transport pathways in asexual malaria infections. Expertise in one of these areas is required. Previous experience with malaria parasites is desirable, but not required. Applicants should submit a curriculum vitae and the names of three references to: Theodore F. Taraschi, Department of Pathology, Anatomy, and Cell Biology, Thomas Jefferson University, 1020 Locust Street, Philadelphia, PA 19107. FAX: 215-923-2218; e-mail: theodore.taraschi@mail.tju.edu. Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL MODELING POSITION

The Long Term Ecological Research (LTER) Network Office solicits applications for an experienced Environmental Modeler for a two-year postdoctoral appointment. The successful applicant will work with LTER scientists to develop models that reflect the process dynamics of several LTER sites. The goals will be to take advantage of the availability of data collected at LTER sites to provide validation of the generality of the models and to utilize the advanced computing capabilities of the San Diego SuperComputer Center. Stand-alone coding and testing of the models will be completed in year one, with integrated testing and validation against empirical data completed in year two. The applicant will be based at the University of New Mexico in Albuquerque with occasional travel to the San Diego SuperComputer Center. This effort is part of collaboration between LTER and the National Partnerships in Advanced Computational Infrastructure (NPACI) program.

Please direct applications by December 4, 1998, to:

Robert B. Waide
Executive Director
Long Term Ecological Research Network Office
Department of Biology
University of New Mexico
Albuquerque, NM 87131-1091
E-mail: rwaide@tinternet.edu

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

POSTDOCTORAL RESEARCH POSITION SYNAPSE TECHNOLOGIES INC.

Synapse Technologies Inc. is a private Canadian biotechnology firm addressing the health challenges of Alzheimer's disease and other related brain disorders. A Postdoctoral Fellow position is available for research in areas of cell and molecular biology. Applicants should have a Ph.D. in cell or molecular biology, biochemistry, or neurobiology with a strong background in molecular technologies. The candidate will be enthusiastic, self-motivated, and possess excellent communication skills. Canadian citizen or permanent resident preferred. We offer a competitive salary, comprehensive benefits, and a ground-floor opportunity to join a world-class team. Applicants should send a curriculum vitae and three references to: Ms. Pam Remai, Blood Brain Barrier Postdoctoral Fellow Position, Synapse Technologies Inc., 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1Z4 Canada. FAX: 604-822-1939.

SENIOR POSTDOCTORAL POSITIONS involving the application of molecular biology to materials research are available in The W. M. Keck Center for Molecular Electronics at Syracuse University, an academic research center specializing in the development of molecular-scale devices. The successful candidate will have three to five years of experience in molecular biology and protein engineering with a Ph.D. or equivalent. Experience with site-directed mutagenesis of bacteriorhodopsin is beneficial. Salaries are competitive and based on experience. Please submit curriculum vitae and the names and addresses (with e-mail if known) of three references to: Prof. Robert R. Birge, W. M. Keck Center for Molecular Electronics, Syracuse University, 111 College Place, Syracuse, NY 13244-4100. E-mail: rbirge@syr.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITION PLANT MOLECULAR BIOLOGY

A Postdoctoral position is available immediately to characterize the role of ANT in *Arabidopsis* flower development. The project involves identification and characterization of functional domains of ANT using approaches such as DNA binding studies, phenotypic analysis of plants containing altered ANT genes, and transactivation assays. A strong background in general molecular biology techniques is required. Interested applicants should send a curriculum vitae and three letters of reference to: Dr. Beth Krizek, Department of Biological Sciences, University of South Carolina, Columbia, SC 29208. For more information, e-mail: krizek@biol.sc.edu.

POSTDOCTORAL POSITION in lung developmental biology available to study regulation of branching morphogenesis and epithelial differentiation. Requirements: excellence in routine molecular and cell biology procedures; background in gene knockout/transgenic mice. Contact: Dr. Wellington V. Cardoso, Pulmonary Center, Boston University School of Medicine, 80 East Concord Street R-304, Boston, MA 02118. FAX: 617-536-8093; e-mail: wcardoso@bupula.bu.edu.

The Wellcome Trust - Burroughs Wellcome Fund Infectious Diseases Initiative

Collaborative Grants to Support Research in Infectious Diseases in the Tropical Developing World

The Wellcome Trust and the Burroughs Wellcome Fund are pleased to announce a joint initiative to support research in infectious diseases of the developing world. The aim of this trilateral award programme is to build new collaborations and to expand existing linkages among researchers in tropical developing countries with researchers in the UK and USA or Canada.

Nature of these awards

This programme will provide support for original and innovative collaborative research addressing major health problems in developing countries related to bacterial, viral and parasitic diseases. Malaria and HIV, although of paramount global importance, will not be a focus of this programme as there are already major international programmes supporting collaborative work in these diseases.

Although applications must be scientifically driven, address important questions and establish or enhance collaborations, they must also promote scientific training in the developing or developed country. Research programmes may include fieldwork in the developing world as well as bench science in laboratories and range from basic studies of the mechanism of disease to studies in public health to epidemiology, diagnostics, therapeutics or vaccine development.

Sean Hussain, Grants Administrator, The Wellcome Trust, 183 Euston Road, London NW1 2BE, UK. Tel: +44 (0)171 611 8641 Fax: +44 (0)171 611 7288 E-mail: s.hussain@wellcome.ac.uk www.wellcome.ac.uk



The Wellcome Trust is a Registered Charity, No. 210183, and seeks to support research in biomedical sciences and the history of medicine by means of grants and other activities

These are expected to be substantial awards (in the region of £1-3million over 5 years), but smaller-scale trilateral work will be considered. It is expected that there will be one round of applications in 1999 and another in 2000.

Institutional partners

Each application must include at least one partner from the UK, at least one partner from the USA or Canada, and at least one partner from a developing tropical nation. Researchers whose primary affiliation is with a Wellcome Trust Unit, or a US, Canadian, or UK government research unit in a developing country may not apply directly, but may act as a collaborative partner. Collaborative partners (e.g. government research institutes or public health departments), which provide access to disease surveillance data, public health information, training, or serve as field sites are acceptable.

Further Details

The closing date for receipt of preliminary applications for the 1999 competition will be 15 January 1999. Further details of this programme can be obtained from either of the addresses below:

Victoria McGovern, PhD, Program Officer, Burroughs Wellcome Fund, 4709 Creekstone Drive, Suite 100, Durham, NC 27703-8472, USA. Tel: +001 919/991 5100 Fax: +001 919/941 5884 E-mail: vmcgovern@bwfund.org www.bwfund.org

BURROUGHS
WELLCOME
FUND 

EUROPEAN OPPORTUNITIES



The Max Planck Institute for Demographic Research

Director: Prof. James W. Vaupel, Ph.D.

Within the autonomous research group on **DEMOGRAPHIC METHODS OF MODELING, FORECASTING AND SIMULATION** at the Max Planck Institute for Demographic Research the following jobs are available:

Research Scientist

Applicants should have completed a Ph.D. degree in demography or a related subject (economics, statistics, mathematics, etc.) within the past decade. Knowledge of econometrics, a strong interest in modeling and simulation of dynamic systems and the ability to conduct formal demographic and econometric research are necessary. The salary for this position will be BAT-O IIa/Ib.

Two doctoral or postdoctoral fellows

Applicants should have completed a university (doctoral) or Ph.D. (postdoctoral) degree in demography or a related subject (economics, statistics, mathematics, etc.).

For further information, please access <http://www.demogr.mpg.de>. Applications from women are encouraged. Preference will be given to disabled persons, all else being equal.

Inquiries and applications (including CV and selected publications) should be sent by 15 January 1999 to:

Dr. Alexia Fürnkranz-Prskawetz
Max Planck Institute for Demographic Research
Doberaner Straße 114
18057 Rostock
Germany



UNIVERSITY OF MISSOURI-COLUMBIA

The Department of Veterinary Pathobiology seeks to fill a full-time tenure-track faculty position in Molecular Microbiology at the Assistant or Associate Professor level. Candidates will be expected to develop a vigorous, externally funded research program, direct Ph.D. students, and participate in teaching graduate and professional veterinary students.

Candidate should have a Ph.D. degree with a minimum of 3 of years relevant postdoctoral or equivalent experience, significant publications, and evidence of potential for a sustained commitment to high-quality research. Candidate should have expertise in bacterial pathogenesis with strengths in immunology and/or other related areas. Candidates with a Ph.D. and D.V.M. degree are especially desired.

The candidate's research program should complement strengths of the department, which include infectious diseases of food animals, reproductive biology, laboratory animal medicine, immunology, and molecular biology. The Department encourages the development of intra- and interdisciplinary research teams. The successful candidate would be involved in teaching professional students in bacteriology and in graduate education.

Salary for this position is competitive and commensurate with experience. The successful candidate would be located in recently renovated state-of-the-art laboratories. Interested candidates should submit a curriculum vitae, statement of research interests and goals, and the names, addresses, and telephone numbers of at least three references to: **Dr. John N. Berg, Molecular Microbiology Search Committee, Department of Veterinary Pathobiology, 201 Connaway Hall, University of Missouri-Columbia, Columbia, MO 65211 (e-mail address: bergj@missouri.edu).** Non-citizens please include visa status. Review of applications will start November 30, 1998, and will continue until the position is filled. The University of Missouri is an Affirmative Action/Equal Opportunity Employer and encourages applications from females and minorities. Interested parties may view the departmental website at <http://www.hsc.missouri.edu/~vetmed/docs/departs.html#pathobio>.

POSITIONS OPEN

POSTDOCTORAL POSITION available at the VA Medical Center/Oregon Health Sciences University in hepatitis C virus research. This is a VA-funded multidisciplinary program with mentors from areas of molecular virology, transplantation medicine, and cellular immunology. Research is targeted at the pathogenesis of recurrent hepatitis C following liver transplantation. Topics of investigation include the genetic analysis of post transplant hepatitis C quasispecies, a murine model for protective immunity, clonal identification of intra-hepatic lymphocytes, and cellular immunity to HCV-infected allogeneic targets. Applicants should have M.D. or Ph.D. degree and a strong interest in a research career. Previous molecular biology or immunology experience desirable. *Applicants must be U.S. citizens or permanent residents.* Interested applicants should send a curriculum vitae, a statement of career goals, and names of three references to: **Sunwen Chou, M.D., Infectious Disease Section P3ID, VA Medical Center, P.O. Box 1034, Portland, OR 97207.** E-mail (no attachments): corelab@portland.va.gov. *Equal Opportunity Employer.*

Great Lakes Institute for Environmental Research. **POSTDOCTORAL FELLOWSHIPS.** The Great Lakes Institute for Environmental Research at the University of Windsor announces the availability of up to five Postdoctoral Fellowship positions in the areas of ecotoxicology, aquatic ecology, environmental health, air quality, assessment and remediation of toxic metals in the environment, xenobiotic effects on proteins and cell receptors, and analysis of organic contaminants. Positions are available immediately and will be open until suitable candidates are appointed. Application should include a complete curriculum vitae and names of three referees, and be directed to: **Dr. Arthur Szabo, Interim Director, Great Lakes Institute for Environmental Research, University of Windsor, Windsor, Ontario N9B 3P4 Canada.** The University of Windsor is committed to Employment Equity and welcomes applications from aboriginal peoples, persons with disability, and members of visible minorities. Applications from women are particularly encouraged.

POSTDOCTORAL POSITION available in the Molecular and Cellular Endocrinology Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) at NIH. Our laboratory studies transcriptional regulation by thyroid hormone and steroid hormone receptors and molecular mechanisms of thyroid cancer. Strong background in molecular biology required. Experience with viral vectors, *in vitro* transcription, or protein purification helpful. Applicants must have a Ph.D. and/or M.D. as well as zero to five years of postdoctoral experience. *Candidates must be U.S. citizens or permanent residents.* Please send curriculum vitae and three references to: **Paul M. Yen, M.D., Molecular and Cellular Endocrinology Branch, NIDDK/NIH, Building 10, Room 8D12, 9000 Rockville Pike, Bethesda, MD 20892.** Telephone: 301-594-6797; FAX: 301-402-4136; e-mail: pauly@bldg10.nidk.nih.gov.

POSTDOCTORAL RESEARCH ASSOCIATE

To study molecular biology, structure, and function of proteins/peptides interaction with membranes or lipid domains and their role in intracellular lipid trafficking and metabolism. A Ph.D. in biochemistry, chemistry, or related field is desirable. Send curriculum vitae and four letters of reference to: **Dr. F. Schroeder, Department of Physiology and Pharmacology, Texas A&M University, College Station, TX 77843-4466.** E-mail: fschroeder@cvm.tamu.edu. Texas A&M University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in AIDS vaccine research with a major focus on humoral immunity is available. Individuals with a Ph.D. and experience in immunology and virology are encouraged to apply for this immediate opening. Please send curriculum vitae to: **Dr. David C. Montefiori, Center for AIDS Research, Department of Surgery, Box 2926, Duke University Medical Center, Durham, NC 27701.** E-mail: monte005@mc.duke.edu.

POSTDOCTORAL POSITIONS are available to study xenobiotic signaling and apoptosis. A Ph.D. degree with a strong background in molecular and cellular biology is required. Please send curriculum vitae and names of three references to: **Dr. A. Tony Kong, Center for Pharmaceutical Biotechnology, University of Illinois, 900 South Ashland Avenue, MC870, Chicago, IL 60607.** E-mail: kongt@uic.edu. *UIC is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL INVESTIGATOR

Postdoctoral position in plankton ecology and/or benthic ecology available in the Biology Department for a **MARINE ECOLOGIST/BIOLOGIST** with interest in harmful algal blooms (HABs). Successful applicant will conduct and participate in laboratory and field investigations in one or more of the following areas: (1) development and testing of antibody and DNA probes and advanced assay techniques; (2) application of clay flocculation to remove HAB cells from seawater, emphasizing planktonic and benthic community impacts. Desirable skills include background in phytoplankton (or HAB) physiological ecology, plankton dynamics, benthic ecology, phytoplankton physiology, biochemistry, immunology, or DNA probe technology. Statement of research interests, curriculum vitae, and names and addresses of three references, should be sent to: **Woods Hole Oceanographic Institution, Box SFT58, Woods Hole, MA 02543.** For further information visit our website: <http://www.whoi.edu>. *Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

Two **POSTDOCTORAL POSITIONS** are available to study the structure and function of ligand-gated ion channels using molecular biological, electrophysiological, biochemical, and pharmacological techniques. Position One will study neuronal nicotinic acetylcholine receptors. Position Two will study GABA receptors in human primary afferent neurons. A recent Ph.D. and molecular biology experience is desirable. Send curriculum vitae and names and addresses of three references to: Position One: **Dr. C. Luetjke, Department of Molecular and Cellular Pharmacology (R-189), University of Miami, P.O. Box 016189, Miami, FL 33101.** E-mail: cluetjke@chroma.med.miami.edu. Position Two: **Dr. R. Davidoff, Department of Neurology (D4-5), University of Miami, P.O. Box 16960, Miami, FL 33101.** E-mail: rdavidoff@mednet.med.miami.edu. Additional information is available at website: <http://chroma.med.miami.edu/pharm/faculty/Leutje.html>. *Equal Opportunity Employer.*

COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS

The Molecular Cardiology Program at Columbia University College of Physicians and Surgeons invites applications for **POSTDOCTORAL FELLOWSHIPS**. We are seeking outstanding applicants well trained in molecular and cellular biology or in electrophysiology. Prior experience in cardiovascular systems is not required.

Applicants should include a curriculum vitae, reprints of publications, a summary of research experience, and three letters of recommendation; send to: **Dr. Andrew R. Marks, Director of Molecular Cardiology, Columbia University College of Physicians and Surgeons, P&S 9-401, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION ANTICANCER DRUG DEVELOPMENT AND PHARMACOLOGY

Individuals interested to work on projects related to experimental therapeutics of brain tumors with expertise in pharmacology, pharmaceutical sciences, biochemistry, or related area are encouraged to apply. Projects will involve one or more of the following areas: drug delivery, drug transport, and drug resistance utilizing *in vitro* and *in vivo* models. Send résumé to: **James M. Gallo, Ph.D., c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** Visit Gallo at website: www.fccc.edu/research/reports/current/ for overview of laboratory activities. *Equal Opportunity Employer.*

Two **POSTDOCTORAL POSITIONS** are available immediately to study the *Drosophila* retinoblastoma protein and its interacting genes. Please visit our website for more information. Successful candidates should have a Ph.D./M.D. and demonstrated a strong background in any of the following areas: *Drosophila* genetics, molecular biology, cell biology, or developmental biology. Please send résumé, names of three referees, and a letter describing research interests to: **Wei Du, University of Chicago, 924 East 57th Street, BSLC R314, Chicago, IL 60637.** E-mail: wdu@ben-may.bsd.uchicago.edu; FAX: 773-702-4394; website: ben-may.bsd.uchicago.edu/CCB/faculty/du.html.

POSITIONS OPEN

POSTDOCTORAL POSITION DEPARTMENT OF STATISTICS THE UNIVERSITY OF CHICAGO

The Department of Statistics at The University of Chicago has received a Group Infrastructure Grant from National Science Foundation that will support up to three interdisciplinary Postdoctoral positions in statistics and some scientific discipline. Recent Ph.D.'s in any area of science, especially genetics, geophysics, or astronomy, who also have a research interest in the use and development of statistical methods for scientific inquiry are encouraged to apply. Undergraduate and graduate teaching opportunities are available. Interested applicants should send a résumé, statement of purpose, and arrange for two letters of reference to be sent to: **Michael Stein, Group Infrastructure Grant Postdoctoral Committee, Department of Statistics, The University of Chicago, 5734 University Avenue, Chicago, IL 60637.** *Equal Opportunity Employer.*

MOLECULAR ENDOCRINOLOGY, GENE REGULATION, CELL CYCLE REGULATION

POSTDOCTORAL POSITION. The molecular mechanisms by which thyroid hormones promote cell proliferation are being studied with particular emphasis on the regulation of cell cycles and interaction of thyroid hormone receptors with Rb and p53. *Candidate must be a U.S. citizen or permanent resident.* Applicants must have a Ph.D. and/or M.D. with less than five years of postdoctoral experience. A candidate with a strong background in molecular biology and cell biology and a passion for science is preferred. Please send your curriculum vitae and three letters of reference to: **Dr. Sheue-yann Cheng, Laboratory of Molecular Biology, National Cancer Institute, National Institutes of Health, Building 37, Room 2D24, 37 Convent Drive, MSC 4255, Bethesda, MD 20892-4255.** Telephone: 301-496-4280. *NIH is an Equal Opportunity Employer.*

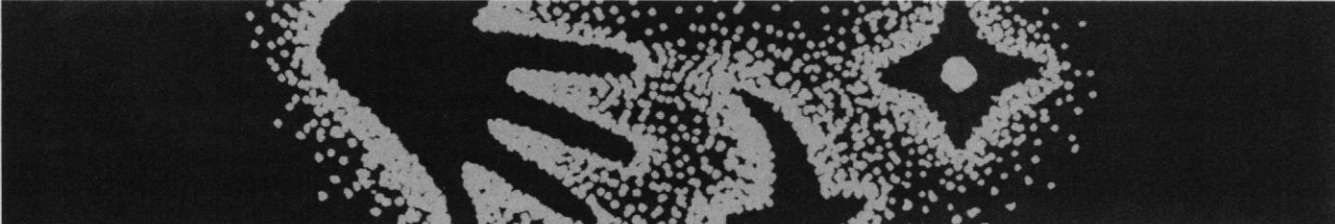
POSTDOCTORAL POSITION IN HIGH-ENERGY PHYSICS

Based in Illinois, involves leading role on the Collider Detector at FERMILAB (CDF) experiment, testing front-end electronics and online calibration software development. Requires Ph.D. in high-energy physics; hardware and software experience for major accelerator projects; experience with electronic and hadronic calorimeters, fast-readout electronics, and data acquisition systems; knowledge of Unix, VxWorks, and NT operating systems, and C, C++, Fortran, and Java programming. Annual salary \$35,000. Send curriculum vitae, statement of research interests, and three letters of reference to: **Prof. R. Wigmans, Department of Physics, Texas Tech University, Lubbock, TX 79409-1051.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION to study differential gene expression in the hearts of lower vertebrates in response to hypoxic stress. Applicants must have experience in molecular biology including RNA isolation and analysis. Will be trained in physiological instrumentation and recording from perfused hearts. Support for two years. Send curriculum vitae and names and addresses of three references to: **Tom McKean, Professor of Zoology, University of Idaho, Moscow, ID 83844-3051.** E-mail: tmck@uidaho.edu. *University of Idaho is an Affirmative Action/Equal Employment Opportunity Employer.*

POSTDOCTORAL RESEARCH FELLOWSHIP. Positions are available for Postdoctoral Fellows experienced in molecular biology, immunology, or protein chemistry. The research undertaken involves viral and immunological features of HIV pathogenesis. *Must be U.S. citizen or permanent resident.* Send curriculum vitae and the names of three references to: **Jay A. Levy, M.D., Division of Hematology/Oncology, Department of Medicine, University of California, San Francisco, CA 94143-1270.**

POSTDOCTORAL POSITION available to study apoptotic signaling pathways in cancer cells (see: *JBC* 272:26056-26061; *Cell Death and Diff.* 5:729-734). A strong background in molecular and cell biology is essential. Send curriculum vitae and names of three references to: **Dr. Glenn D. Rosen, Stanford University Medical Center, 300 Pasteur Drive, Stanford, CA 94305-5236.** E-mail: grosen@leland.stanford.edu. *Stanford University is an Equal Opportunity Employer through Affirmative Action.*



Pharmacia & Upjohn is a global pharmaceutical company with research centers located in Sweden, Italy and the U.S. Research activities are concentrated on Metabolic Diseases, Oncology, CNS and Infectious Diseases to help people live longer and fuller lives.

Research in Stockholm/Uppsala, Sweden is focused on Metabolic Diseases. We are expanding and therefore seeking outstanding individuals to help build our vision and to lead our future growth in the area. Sounds interesting? For the right individual we have the right position in an environment you would find it hard to match and impossible to beat.

Medicinal Chemistry

The large expansion in Medicinal Chemistry which we started two years ago in Sweden will continue for a number of years yet. By the time we occupy new facilities in Stockholm in three years time, we will have again doubled our strength in this area. In 1999 we shall again be looking for talented individuals who want to work in the most stimulating environment in the industry. We are therefore inviting applications from

Postdoctoral synthetic and medicinal chemists who want to join the industry and who want to find out just how much fun you can have discovering new drugs. You will work in multidisciplinary teams in a flexible and cooperative environment and your contributions will have a significant impact on our ability to do that.

Medicinal chemists with industrial experience who want to continue their development as leaders of science and people. You will have experience of drug discovery in an industrial setting and be ready to take on new responsibilities and challenges. Your driving passion will be the science and your contributions will be appreciated.

Senior medicinal chemists who already have demonstrated leadership abilities at an equally senior level in the industry. You will now want to replace your old ceilings by new horizons and lead us into the future.

For further information please contact *Dr Roger Crossley*, phone +46 18 164890.

Diabetes Pharmacology

Two positions are currently available for research scientists with competence in diabetes type 2 research. The main function of the diabetes research unit is to carry out *in vivo* animal experiments with regard to target evaluation/validation and profile evaluation of lead candidate drugs.

The successful candidates will independently establish, plan and conduct animal *in vivo* and *in vitro* experiments. Other tasks will be evaluation of data and reporting of results. The candidates will participate in multidisciplinary teams within our preclinical R&D organisation in Uppsala and Stockholm. Responsibilities will include project team management or project participation, depending on individual competence.

The successful candidates will have a Ph.D. or an M.D./Ph.D. and at least three years of experience following post-doctoral training. A strong track record of experimental research in the diabetes field and experience from pharmaceutical industry are merits.

For further information please contact *Dr Göran Selén* or *Dr Kjell S. Sakariassen*, phone +46 18 163000.

Applications should be sent to **Lotta Hansing**, Pharmacia & Upjohn AB, SE-112 87 Stockholm, no later than November 30 1998.



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POSITIONS OPEN

POSTDOCTORAL POSITION available to study the growth and differentiation of oligodendrocytes. Project focuses on using molecular approaches to investigate the signal transduction pathways involved in stimulating myelin-specific gene expression and oligodendrocyte differentiation in the central nervous system. Experience in molecular biology and cell culture is desirable. Consideration of applications will begin January 1, 1999. Please send curriculum vitae, including a brief description of research experience, and three letters of reference to: **Dr. Robin Miskimins, Division of Basic Biomedical Sciences, Biochemistry and Molecular Biology, University of South Dakota School of Medicine, Vermillion, SD 57069.** USD is an Affirmative Action/Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is available in the Sealy Center for Oncology and Hematology at the University of Texas Medical Branch. Projects will focus on the identification and cloning of novel molecular components of growth signaling pathways in normal and malignant hematopoietic cells. Applicants should send their curriculum vitae, summary of research interests, and references to: **Dr. Michael P. Carroll, Sealy Center for Oncology and Hematology, University of Texas Medical Branch, MRB 9.104, 301 University Boulevard, Galveston, TX 77555-1048.** E-mail: mcarroll@utmb.edu. Equal Opportunity/Affirmative Action Employer, Minorities/Females/Disabled/Veterans. UTMH hires only employees authorized to work in the United States.

POSTDOCTORAL POSITION in immunology is available to study the response of the immune system to modified self-proteins, with possible ramifications to the development and/or progression of autoimmune diseases. A background in basic immunologic techniques is a must, with expertise in the area of antigen presentation encouraged. Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Geoffrey Thiele, Ph.D., VA Medical Center-151, 4101 Woolworth Avenue #R321, Omaha, NE 68105.** The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH ASSOCIATE. Rutgers, The State University of New Jersey. Two-year appointment to work on autocatalyzed cell death in unicellular algae. Experience with protease assays and standard molecular biological techniques required. Funded by NIH.

Send curriculum vitae along with the names of three references to: **Dr. Paul Falkowski, Rutgers, The State University of New Jersey, Environmental Biophysics and Molecular Biology Program, 71 Dudley Road, New Brunswick, NJ 08901-8521.**

Rutgers is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/STAFF ASSOCIATE POSITIONS COLUMBIA UNIVERSITY

Position in atherosclerosis research. The research employs transgenic, inbred, and obese mouse strain to model human lipoprotein disorders and to detect novel atherosclerosis susceptibility genes by whole genome approaches. Send curriculum vitae to: **Dr. Alan Tall, Division of Molecular Medicine, Columbia University, 622 West 168th Street, New York, NY 10032.** Columbia University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the regulation of calcium mobilization by protein kinases. The research involves the use of fluorescent calcium indicator dyes and the patch clamp technique (PNAS 95:1613-1617, 1998). Applicants should preferably have experience in these areas. Send curriculum vitae and contact information for three referees to: **Dr. Alan Fein, Department of Physiology, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-3505 USA.** FAX: 860-679-1269; e-mail: afein@neuron.uchc.edu.

POSTDOCTORAL POSITION available to study mechanisms of transcriptional activation and repression in the *Drosophila* embryo. Candidates should have a Ph.D. and experience in one or more of the following areas: recombinant DNA methodologies, protein purification, and *Drosophila* genetics. Send curriculum vitae, statement of research accomplishments, and names of at least three references to: **Dr. Albert J. Courey, Department of Chemistry and Biochemistry, UCLA, 405 Hilgard Avenue, Los Angeles, CA 90095-1569.**

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA, IRVINE

Three **POSTDOCTORAL POSITIONS** available February 1999 for research on protein methyltransferases. Preference will be given to applicants with proven ability in two or more of the following areas: protein purification and characterization (SDS-PAGE, immunoblotting, column chromatography), mammalian cell culture, HPLC, protein expression in bacteria, and cDNA cloning. Applications close December 18, 1998. Minimum salary: \$29,112 per annum. For consideration, send a curriculum vitae and names of two references to: **Professor Dana W. Aswad, Department of Molecular Biology and Biochemistry, 3205 Bio Sci II, University of California, Irvine, Irvine, CA 92697-3900.** E-mail: dwaswad@uci.edu; website: www.bio.uci.edu/units/mbb/faculty/aswad.html. The University of California is an Equal Opportunity Employer committed to excellence through diversity.

UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO GALLO CLINIC AND RESEARCH CENTER

Several **POSTDOCTORAL OR SENIOR POSTDOCTORAL POSITIONS** are available to study *in vitro* and *in vivo* effects of ethanol on signal transduction in the mammalian nervous system. Seeking candidates with experience in one or more of the following: cell biology and biochemistry, viral-mediated gene transfer in neural tissue, brain slice techniques, neuroanatomy and histology, and imaging. Send curriculum vitae and names of three references to: **Dr. Adrienne Gordon and Dr. Ivan Diamond, c/o Dr. Woody Hopf, Gallo Research Center, Building 1, Room 101, San Francisco General Hospital, San Francisco, CA 94110.** Website: http://gallo.ucsf.edu.

STAFF ASSOCIATE AND POSTDOCTORAL FELLOWSHIP positions available in research in atherosclerosis and fuel metabolism. Position available for NIH-funded studies of atherosclerosis, regulation of lipoproteins, and diabetic macrovascular disease. The position involves the use and creation of transgenic mouse models. Experience with lipoprotein biochemistry, transgenic mice, and adenovirus technologies helpful. *Postdoctoral candidate with U.S. citizenship or permanent residence status preferred.* Please send curriculum vitae to: **Dr. Ira J. Goldberg, Department of Medicine, Columbia University, 630 West 168th Street, Room P&S 9-510, New York, NY 10032.** FAX: 212-305-5384; Telephone: 212-305-5961. We take Affirmative Action toward Equal Employment Opportunity.

POSTDOCTORAL POSITION available to carry out biophysical studies on peptides that model the effects of "brittle bone disease" mutations on the collagen triple helix. Requires a Ph.D. in a relevant science and experience in physical biochemistry or peptides. Send curriculum vitae, plus the names of two references, to: **Dr. Barbara Brodsky, Department of Biochemistry, University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, Piscataway, NJ 08854.** E-mail: brodsky@umdnj.edu. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.

POSTDOCTORAL POSITION FOX CHASE CANCER CENTER

Postdoctoral position available immediately to study the function of the tuberous sclerosis (TSC) tumor suppressor genes and their protein products, with an emphasis on the potential role of these proteins in vesicular trafficking. Background in molecular and cellular biology is required. Please send curriculum vitae and the names of three references to: **Dr. E. P. Henske, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** E-mail: ep_henske@fccc.edu. Equal Opportunity Employer.

SENIOR POSTDOCTORAL FELLOWSHIP opening in molecular biology/biochemistry. Project includes protein purification, molecular cloning of the gene of the purified protein, and functional studies of the protein. Candidates should have experience in both protein purification and molecular biology. Possibility of long-term position exists. Salary, benefits competitive. Send cover letter, résumé, and names of three references to: **Dr. Lau, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.**

POSITIONS OPEN

POSTDOCTORAL POSITION PHARMACOKINETIC (PK) AND PHARMACODYNAMIC (PD) MODELING

Individuals interested to develop PK/PD models of anticancer drugs using modern methods (mixed effects, Bayesian) of computer analyses are encouraged to apply. Training in one or more of the following areas is needed: statistics, pharmaceutical sciences, engineering, quantitative biology, or related area. Send résumé to: **James M. Gallo, Ph.D., c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** Visit Gallo at website: www.fccc.edu/research/reports/current/ for overview of laboratory activities. Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study the role of nicotinic acetylcholine receptors (nAChR) in normal lung development and how lung development is altered by prenatal exposure to nicotine. Research will combine lung developmental biology in mice and monkeys combined with basic molecular studies of nAChR function and signaling. The candidate should have a Ph.D. or M.D. degree and a background in cholinergic neurotransmission, lung biology, or lung development. Flexible start date and salary commensurate with experience. Send curriculum vitae and names of three references to: **Eliot R. Spindel, M.D., Ph.D., Division of Neuroscience, Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton, OR 97006.** E-mail: spindele@ohsu.edu. Affirmative Action/Equal Employment Opportunity.

POSTDOCTORAL FELLOWSHIP in SIV Research. An NIH-funded position is available in molecular genetics, cellular biology, and pathogenesis of the simian immunodeficiency virus model. Major emphasis of the laboratory is isolation and genetic characterization of new SIV strains of African origin, pathogenesis and vaccine models. This SIV laboratory is located at the Tulane Primate Center. Send curriculum vitae by mail, FAX, or e-mail. Use "Post-Doc application" as the subject for all e-mail applications: **Preston A. Marx, Aaron Diamond AIDS Research Center, Tulane Regional Primate Research Center, 18703 Three Rivers Road, Covington, LA 70433.** Telephone: 504-892-2040, ext. 255; FAX: 504-893-1352; e-mail: pmarx@adarc.org.

POSTDOCTORAL FELLOWSHIPS AVAILABLE AT SLOAN-KETTERING INSTITUTE

Scientists with background and interest in defining the effects of signal transduction pathways, cell cycle control, or protein-protein interactions on the function of AML1, ETS, or bZIP transcription factors in normal and leukemic hematopoiesis are encouraged to apply. A description of your research interests, curriculum vitae, and the names and telephone numbers of three references should be sent to: **Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 575, New York, NY 10021.**

POSTDOCTORAL POSITION IN RNA OR PROTEIN FOLDING AT THE UNIVERSITY OF CHICAGO

NIH-funded positions to conduct fundamental kinetic and thermodynamic studies of RNA and protein folding: rate-limiting steps, time-scales, driving forces, and *in vivo* RNA folding. Send a curriculum vitae including publications and names of references to: **Prof. Tobin Sosnick or Prof. Tao Pan, The Department of Biochemistry and Molecular Biology, 920 East 58th Street, Chicago, IL 60637.** E-mail: trsosnic@midway.uchicago.edu or taopan@midway.uchicago.edu. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. Two positions are available to study stress-induced signal transduction pathways and apoptosis in the eye. A strong background in molecular biology or protein biochemistry is desired. Please FAX or e-mail curriculum vitae and three letters of reference to: **Dr. D. W. Li, Department of Molecular Biology, University of Medicine and Dentistry of New Jersey, Two Medical Center Drive, Stratford, NJ 08084.** FAX: 609-566-6232; e-mail: lidw@umdnj.edu. Visit our website: http://www.umdnj.edu. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Positions available (Ph.D. or M.D.) for research training in experimental hematology and vascular biology in an NIH-sponsored program at the Cardeza Foundation, Thomas Jefferson University. Areas of interest include molecular and cellular aspects of angiogenesis, gene expression by vascular cells, biology of the platelet and endothelial GpIb complexes, megakaryocytic development and gene expression, oxygen-regulated gene expression, role of lipid-binding proteins in thrombosis, and bone marrow transplantation immunology. *U.S. citizenship or permanent residency required.* Please send curriculum vitae and three reference letters to: **Dr. Sandor S. Shapiro, Cardeza Foundation for Hematologic Research, 1015 Walnut Street, Philadelphia, PA 19107-5099. E-mail: sananto1@jefflin.tju.edu. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study and mathematically model the mechanism of chemical-induced dermal irritation. Cytokine and chemokine measurements are used to discern the temporal responses of the skin to organic chemicals. The candidate must have Ph.D. and experience in biochemical and molecular biology techniques with cytokines. Experience in dermal toxicology or skin penetration is desired. Please send curriculum vitae with names of two references to: **James McDougal, Ph.D., Department of Pharmacology and Toxicology, School of Medicine, Wright State University, 3640 Colonel Glenn Highway, Dayton, OH 45435-0001.** Review of applications will begin on November 3, 1998. *Wright State University is an Affirmative Action/Equal Employment Opportunity Employer.*

A POSTDOCTORAL POSITION in retinal neurobiology is available to study synaptic plasticity in the vertebrate retina. The project employs electrophysiological (patch clamp and intracellular recording), neurochemical (HPLC), and anatomical (dye injection) techniques to investigate a circadian rhythm in neuronal light responses in fish and rabbit retinas. Experience in electrophysiology is desirable. Please send curriculum vitae, a description of research experience, and the names and addresses of three references to: **Dr. Stuart Mangel, Department of Neurobiology, University of Alabama School of Medicine, 1719 6th Avenue South—CIRC 425, Birmingham, AL 35294 USA. E-mail: mangel@nrc.uab.edu.** *The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION HARVARD UNIVERSITY

Position available to study the cell cycle dysregulation in head and neck/oral cancer. Specific areas include the regulated expression and cell cycle control of *cdc-1* and *cdc-2*-related sequences (*J. Biol. Chem.* 273:6704-6709, 1998; *FASEB J.* 9:1362-1370, 1995). Qualified candidates should have a strong background in molecular biology and biochemistry. Please forward a curriculum vitae and names and telephone numbers of three references to: **Dr. David Wong, Laboratory of Molecular Pathology, Harvard University, 188 Longwood Avenue, Boston, MA 02115. E-mail: dwong@warren.med.harvard.edu.** Position available January 1, 1999.

RESEARCH ASSOCIATE POSTDOCTORATE

Position available to investigate the role of extracellular collagen-modifying enzymes in the control of insoluble collagen accumulation and osteoblast function and differentiation. Ph.D. in a biological science with a strong background in protein biochemistry, enzymology, cell biology, and experience in recombinant protein expression and purification in bacterial and nonbacterial systems. Send curriculum vitae to: **Phillip C. Trackman, Ph.D., Boston University Medical Campus, 715 Albany Street (W-201), Boston, MA 02118. Boston University is an Equal Opportunity Employer.**

RESEARCH POSITIONS

Research positions are available at North Shore University Hospital for characterization and function of the *ebaf*, a newly identified member of the TGF- β family. Extensive experience in molecular biology and Master's or Ph.D. are required. Send résumé to: **e-mail: tabibzadeh@bioscience.org or Telephone: 516-484-2831.** *We are an Equal Opportunity Employer. Minorities/Females/Disabled/Veterans.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITIONS IN REGULATION OF ASYMMETRIC STEM CELL KINETICS

Positions available immediately for recent graduates trained in biochemistry, cell biology, and molecular biology with interests in the function of tumor suppressor proteins and guanine ribonucleotides in asymmetric stem cell kinetics.

Research projects include investigations of p53 tumor suppressor protein function, DNA replication, cyclin kinase regulation, gene expression analyses by cDNA array techniques, isolation of cell division control genes by insertional mutagenesis, and guanine ribonucleotide metabolism.

Interested graduates should forward curriculum vitae and three letters of reference to:

James L. Sherley, M.D., Ph.D.
Division of Bioengineering and
Environmental Health
Massachusetts Institute of Technology
Building 16, Room 755
77 Massachusetts Avenue
Cambridge, MA 02139

TWO POSTDOCTORAL POSITIONS IN PLANT PHYSIOLOGICAL ECOLOGY

(1) Below-ground carbon allocation in fast- and slow-growing families of loblolly pine (Project Leader: **Dr. Mary A. Topa**).

(2) Applications of stable isotopes to air-pollution stress in forests (Project Leader: **Dr. Jonathan Comstock**).

For details, see website: <http://bti.cornell.edu/hr/postdoc.opp.html>. Interested applicants should send cover letter, curriculum vitae, and names of three references to appropriate Project Leader at: **Boyce Thompson Institute, Tower Road, Ithaca, NY 14853.** *An Equal Opportunity/Affirmative Action Employer.*

COURSES & TRAINING



The University of Maryland anticipates openings for faculty to teach undergraduate science courses on U.S. military bases overseas. Requirements include the Ph.D. or two Master's degrees, recent U.S. university teaching experience, *U.S. citizenship*, commitment to teaching excellence, and qualifications to teach in two different fields. Renewable annual appointments begin August 1999. Frequent relocation and the cost of schooling makes these positions difficult for those with children. See website: <http://www.umuc.edu>, "Faculty/Staff." Send résumé to: **Dr. Rosemary Hoffmann, University of Maryland University College, College Park, MD 20742-1642. E-mail: overseas_programs@admin.umuc.edu** (Please include mailing address). *Affirmative Action/Equal Employment Opportunity.*

GRANTS

PARKINSON RESEARCH GRANTS 1999-2000

The National Parkinson Foundation of Miami, Florida invites the submission of grant proposals for Parkinson research. Funding is made available to support basic bench research in Parkinson's disease. The award for a single grant will not exceed \$40,000. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is February 1, 1999. Funding will commence on June 1, 2000. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. Proposals will be assessed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information please write to:

Paula Conley
Programs and Grants Administrator
National Parkinson Foundation
1501 N.W. 9th Avenue
Miami, FL 33136

POSITIONS OPEN

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

A Postdoctoral position is available January 1999 to study human and mouse DNA damage responses, and the integration of these mechanisms with tumor suppressor pathways. The successful applicant will have experience in biochemistry and molecular biology, and a Ph.D. or M.D. An independent research capability, high motivation, and a desire to learn new things will be advantageous. Please submit a curriculum vitae and two references to: **Dr. David T. Weaver, Center for Blood Research, Harvard Medical School, Warren Alpert 154, 200 Longwood Avenue, Boston, MA 02115. E-mail: dweaver@cbr.med.harvard.edu.**

ANNOUNCEMENT

Two **POSTDOCTORAL POSITIONS** are available for two years to study plant purine and pyrimidine transporters. One position involves cloning and analysis of soybean nucleobase transporter genes via functional complementation of yeast mutations. The second position involves generating and characterizing *Arabidopsis* mutants deficient in nucleobase transporters. Applicants must hold a Ph.D. in biological sciences with experience in plant molecular biology or yeast manipulation. Send a curriculum vitae, names and addresses of three references to: **Dr. Neil Schultes, Ph.D., Department of Biochemistry and Genetics, The Connecticut Agricultural Experiment Station, 123 Huntington Street, New Haven, CT 06511 USA. E-mail: neil.schultes@po.state.ct.us.** Salaries: a minimum of \$29,000 per year. *The Connecticut Agricultural Experiment Station is an Affirmative Action/Equal Opportunity Employer.*

GLOBAL OPPORTUNITIES

THE FEINBERG GRADUATE SCHOOL OF THE WEIZMANN INSTITUTE OF SCIENCE

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The Fellowships are available in all the fields of research pursued by the scientific departments of the Weizmann Institute: chemistry, computer science, environmental science, life sciences, applied mathematics, mathematics, and physics.

Applications may be submitted at any time, but the awards will be made shortly after the usual deadlines for the submission of Fellowship applications, January 1 and May 15 each year. Candidates for Koshland Fellowships must be submitted by a Professor of the Weizmann Institute, so interested candidates are strongly advised to contact prospective sponsors directly.

Further information and application forms may be obtained from: **The Feinberg Graduate School, Weizmann Institute of Science, Rehovot 76100 Israel. FAX: +972-8-9344114; Telephone: +972-8-9343843; e-mail: nfinfo@weizmann.ac.il; website: <http://www.weizmann.ac.il/feinberg/wispdoc.html>.**

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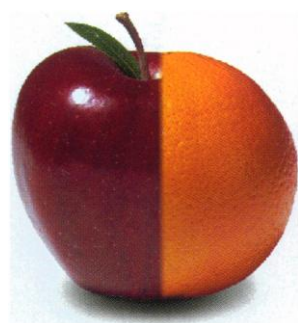
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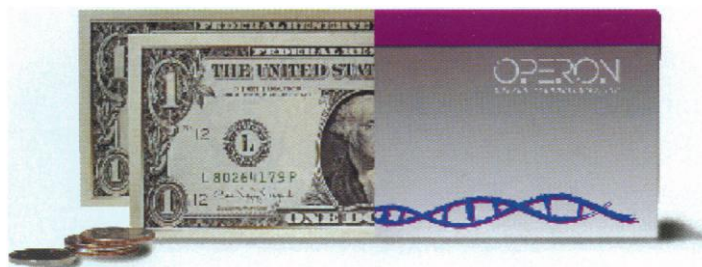
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