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Requirements include a PhD and a minimum of 3-5 years post-doctoral experience (preferably industrial) in Molecular Biology or a related field with demonstrated productivity and creativity as evidenced by a strong publication record. Excellent oral and written communication skills and the ability to effectively interact in multidisciplinary teams are key.

An extensive knowledge and laboratory experience with mammalian heterologous gene expression systems is required along with strong skills in molecular techniques. Experience with microbial, viral vector and insect cell expression systems is highly desirable, as is expression of receptors and development of reporter systems. (Job Code: H8-0270)

BS/MS Scientists

Requirements include a BS or MS in Molecular Biology or a related field with a minimum of 2-3 years experience. Experience in heterologous gene expression using mammalian expression systems is required. The successful candidate will have mastery of mammalian cell culture techniques along with strong technical skills in molecular biology and immunoassay techniques. Experience with bacterial and insect cell expression systems is desirable as is expertise in cDNA library screening, RACE-PCR and gene cloning. Excellent oral and written communication skills are required along with the ability to work as part of varied multidisciplinary teams. (Job Code: H8-0261)

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The Department of Molecular Recognition plays a crucial role in the drug discovery process. We currently have an exceptional opportunity for a scientist to contribute to the conception and planning of methodology to analyze the interactions between small molecules and RNA-derived or ribonucleoprotein-derived biological targets. This work will include development of quantitative assays for these targets involving RNA or RNP/ligand interactions.

Scientist

The selected individual will use excellent technical skills and judgment to optimize experimental procedures relating to one or more of the following: general molecular biology and RNA techniques, cell biology and biochemistry, RNA/protein interactions, and fluorescent based technologies. This position also allows significant interaction within the group to develop

assays as high-throughput screens, as well as with medicinal chemists to provide support for discovery and optimization of lead molecules. Data analysis and interpretation of RNA/RNP-ligand interactions and purification and preparation of specific proteins is required. Responsibilities also include optimal use of literature and computer databases, laboratory organization and maintenance and record keeping.

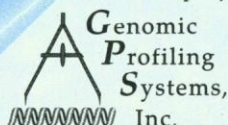
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You should be an energetic self-starter who enjoys the challenge of developing new molecular biological technology. Applicants must have well documented productivity and integrity; must be reliable, flexible, efficient, and work well with a team; must possess strong organizational, interpersonal, and communications skills; and must have excellent computer skills (including computer analysis of DNA sequences and database management).

SENIOR SCIENTISTS

You will lead one of several small teams working interactively towards a common goal of producing important new diagnostic technologies and products. A Ph.D. with 4+ years in the biotech industry, you have demonstrated productivity in microbial molecular genetics (including bacterial). You should have proven skills in conceptualizing, developing, troubleshooting new molecular biological assays, and project/team management.

SENIOR RESEARCH ASSOCIATES

You should have 6+ years relevant professional experience (with 2+ years in biotech industry) and be able to independently and efficiently carry out and troubleshoot: DNA sequencing (including automated), PCR, hybridization (including non-radioactive), recombinant DNA experiments (e.g. cloning and library construction). Also required: M.S. degree or equivalent. Besides the research role there will be lab management responsibilities.

Please submit a CV, one page cover letter, and contact information for 4 references (specifying relationship) to:

Human Resources, Genomic Profiling Systems, Inc.
840 Memorial Drive, 4th floor, Cambridge, MA, 02139.
Or send the same information by email (text or attached Microsoft Word file) to: don_gps@earthlink.net



DIRECTOR, UROLOGY RESEARCH LABORATORIES

The Department of Urology, Indiana University School of Medicine, is seeking a mid-career researcher for the above position. The successful applicant will have a Ph.D. degree or equivalent, qualify for tenure-track position, and have received extramural cancer research funding. Position includes generous start-up with endowed chair and potential for further recruitment. Research focus should be prostate cancer; the applicant will collaborate with other IU Cancer Center investigators and have a secondary appointment in a basic science department. Applicants should send CV and description of research and arrange for three letters of recommendation to be forwarded to **Michael Koch, M.D., Chairman, Department of Urology, 535 Barnhill Drive, #420, Indianapolis, IN 46202.**

Indiana University is an AA/EEOE.



MEDIZINISCHE FAKULTÄT DER HUMBOLDT-UNIVERSITÄT ZU BERLIN

The Charité Medical School of the Humboldt University Berlin/Germany is inviting applications for a University Professor for the Chair of Allergiology to be filled immediately (File number 167/98)

Universitätsprofessor/in für Allergologie Besoldungsgruppe C3 BBesG, Kennziffer: 167/98

The salary is according to the classification for the C3 pay scale. The position is affiliated to the Clinic of Pediatrics with main emphasis on pneumology and immunology. The applicant will become head of the clinical research group "Determinants for the development of atopy and asthma" and will be responsible for teaching and research in the field of allergiology with main emphasis on experimental allergiology and immunology. The applicant is expected to organize interdisciplinary research projects involving clinical working groups of relevant fields. He/she shall be an established scientist. Qualification as university lecturer or equivalent scientific qualification is required.

Charité Medical School is an Equal Opportunity Employer and welcomes applications by women to increase the proportion of female staff in university research and teaching. People with disability with equal qualification will be preferred.

Written applications including curriculum vitae, scientific career, relevant documents, list of publications, and 5 selected publications are to be sent to:

Dekan der Medizinischen Fakultät Charité, Humboldt-Universität zu Berlin, Herrn Prof. Dr. med. Manfred Dietel, Schumannstrasse 20/21, 10117 Berlin, Germany.

Application deadline: six weeks after publication.

FACULTY OR RESEARCH ASSOCIATE POSITION

UNIVERSITY OF UTAH HEALTH SCIENCES CENTER Department of Medical Informatics Genetics Epidemiology Group

A faculty or research associate position is available for a Ph.D. with a background in statistical genetics or genetic epidemiology. The candidate must be interested in genetic analysis of common diseases, including localization of unmapped genes and examination of the genetic epidemiology of known susceptibility genes. He/she will be expected to compete for external funding. The successful candidate will work with an interdisciplinary team actively localizing genes that predispose to breast cancer, colon cancer, prostate cancer, other cancers, and celiac disease, as well as examining the genetic epidemiology of *BRCA1* and *BRCA2* genes predisposing to breast and ovarian cancers.

Send curriculum vitae and three letters of reference to:

Lisa Cannon-Albright, Ph.D.
Genetic Epidemiology
391 Chipeta Way, Suite D2
Salt Lake City, UT 84108
E-mail questions: lisa@episun6.med.utah.edu

The University of Utah is an EEO/AA Employer and encourages applications from women and minorities.



United States Environmental Protection Agency National Exposure Research Laboratory Human Exposure and Atmospheric Sciences Division

The U.S. Environmental Protection Agency (EPA) is seeking highly qualified senior scientific/engineering candidates for the **Director of the Human Exposure and Atmospheric Sciences Division (HEASD)**, National Exposure Research Laboratory (NERL) located at Research Triangle Park (RTP), North Carolina. The NERL is responsible for conducting research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales. The HEASD conducts intramural and extramural research to characterize exposures, across the whole of the exposure assessment paradigm from pollutant source to the dose delivered to the exposed person or receptor. The principal foci of the Division's research are human exposure to chemical pollutants and atmospheric sciences. The Division's research mission encompasses aspects of all components of the exposure assessment paradigm, including exposure/source research; atmospheric processes modeling research; environmental characterization research, including characterizing microenvironmental concentrations/exposures, and defining the critical routes of exposure; exposure analysis research; and exposure/dose research. The human exposure research has both modeling and measurement aspects. It focuses on exposures to susceptible subpopulations and includes field studies of total exposure measurements, the development of probabilistic human exposure models, and the linkage of these models to environmental process models and dose models to achieve source-to-dose models. The atmospheric sciences portion of HEASD's research includes the development and application of instruments and methods to measure atmospheric pollutants and their precursors; chamber and kinetics studies of the chemistry of air pollutants; the development of source apportionment techniques; and the comprehensive profiling of emissions from on- and off-road mobile sources burning gasoline with and without fuel additives.

The Director of HEASD plans, develops, organizes, directs, and implements a highly technical and complex research and development program that has nationwide impact with an annual budget in excess of \$25M and a staff of approximately 130 employees located in RTP and Las Vegas, Nevada. The Director and scientists under the Director's supervision are the Agency's experts in the area of multipathway, multimedia human exposure to environmental contaminants and atmospheric sciences, measurement methods, chemistry, and source characterization; and, therefore, they interact and represent the Agency to a large community of scientists, both nationally and internationally, as well as to the general public and legislative leaders. Ultimately, the research performed will provide an understanding of the critical factors to be considered in developing and implementing programs for the protection of the public's health.

The preferred candidate for this position will have a doctoral degree in one of the biological, physical, or mathematical sciences or in an engineering field. Candidates must also have scientific expertise in either atmospheric sciences or human exposure to chemicals and have demonstrated leadership in scientific management of state-of-the-art programs in atmospheric sciences or human exposure to chemicals. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. **Salary ranges from \$104,577 – \$114,486 per annum**, commensurate with the level of appointment in the Senior Executive Service.

To apply for this position, you must obtain a copy of the vacancy announcement and submit an application containing all the requested information by the closing date of the announcement. **All applications for this position must be postmarked by 9/25/98.** The vacancy announcement may be obtained by calling or writing Ms. Karen Stinson (202) 260-6374, U.S. EPA, Executive Resources & Special Programs (3641), 401 M Street S.W., Washington, DC 20460. The announcement may also be viewed on the Office of Research and Development's Internet Site at <http://www.epa.gov/ord/>.

The U.S. EPA is an Equal Opportunity Employer

Research Opportunities

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 unique opportunities for dedicated professional for the following:

**Mount
Sinai**

Research Assistant Professor

The Institute for Gene Therapy and Molecular Medicine seeks a candidate for a junior faculty position. The selected individual must be experienced in diagnostic pathology, immunocytochemistry, and situ hybridization in laboratory animals, particularly rodents. In this role, you will be expected to co-direct a Morphology and Assessment Core Laboratory by developing necessary methodologies to support ongoing and future research projects. Familiarity with animal pharmacology and toxicology will be particularly welcome. Reply, with statement of research interests, to: **Dr. Swan Thung, Director-Morphology and Assessment Core Laboratory, Professor-Institute for Gene Therapy and Molecular Medicine, Box 1194.**

Postdoctoral Positions Gene Knock-Out and Transgenic Strategies

A postdoctoral position is available immediately to identify and characterize the role of novel retinoic acid target genes by gene knock-out and transgenic strategies. Experience in molecular biology essential, training in transgenic work preferred. Reply to: **Dr. Reshma Taneja, Department of Medicine, Box 1178. Fax: 212-996-5787. Taneja@msvax.mssm.edu**

Stem Cell Biology

A postdoctoral position is available at the Institute for Gene Therapy and Molecular Medicine for an M.D. or Ph.D. to study gene transfer into hematopoietic stem cells, and age-related functional changes in human and murine hematopoietic stem cells. Experience in stem cell biology, and/or a solid background in molecular biology is preferred. Reply to: **Hans W. Snoeck, M.D. Ph.D., Institute for Gene Therapy and Molecular Medicine, Box 1496. Fax: 212-803-6740. E-mail: hans-snoeck@smtplink.mssm.edu**

Neurology

The Department of Neurology has a postdoctoral/faculty position available immediately to study the molecular mechanisms underlying toxic injury to dopamine neurons, using rodent models. Experience with small animal research, histochemistry, and stereology is highly desirable. The successful candidate will join an interactive group of laboratories studying related areas and will have access to state of the art imaging facilities. Reply to: **Dr. C. Warren Olanow, Chairman of Neurology, Box 1137.**

Salaries and appointments are commensurate with experience. We offer excellent benefits and exciting, professional challenges. Please forward your curriculum vitae along with names and phone numbers of three references to the appropriate contact either to their fax or e-mail, if provided, or mail indicating proper department and box number of the position of interest to: **Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an equal opportunity employer fostering diversity in the workplace.

Mount Sinai School of Medicine

Faculty Position in Mouse Genetics University of California, San Francisco Neurology Alcohol Research Program & The Ernest Gallo Clinic and Research Center

The University of California, San Francisco Neurology Alcohol Research Program and The Ernest Gallo Clinic and Research Center seek highly qualified applicants for a faculty position at the Assistant/Associate Professor level to pursue research in alcoholism and drug addiction. The Alcohol Research Program is a multidisciplinary team organized to investigate fundamental mechanisms of alcohol addiction. We have developed innovative approaches in molecular and cell biology, human genetics, and behavioral pharmacology, and we pioneered in bringing invertebrate genetics to the forefront of alcohol research. As part of a major expansion, we seek applications from qualified and motivated individuals who have completed 3-5 years of relevant postdoctoral training or independent research. Candidates should be capable of directing a rigorous research program in mouse genetics with specific emphasis in the nervous system. Recruits are expected to participate in the teaching activities of the UCSF Program in Biological Sciences, the Graduate Program in Neuroscience, and the UCSF Center for the Neurobiology of Addiction. For further information please view our website at <http://egcrc.uscsf.edu>. Applicants should send their curriculum vitae and the name, address, and phone number of four references to:

Mouse Genetics Search Committee
Robert O. Messing, M.D.
University of California, San Francisco
Gallo Center
Building 1, Room 101
1001 Potrero Avenue
San Francisco, CA 94110



CARDIOVASCULAR RESEARCH TRAINING

Pre- and Postdoctoral positions are available for training in basic cardiovascular biology at the University of Nebraska Medical Center. These positions are supported by a training grant from the National Heart, Lung, and Blood Institute. Qualified applicants can choose from several laboratories in basic and clinical departments. Areas of investigation range widely from integrative physiology to molecular mechanisms of cardiovascular disease. Broad areas of research are: regulation of extracellular matrix in cardiac, vascular, and pulmonary tissue; characterization of α_2 -adrenergic receptors; cellular regulation of the renal microvasculature; molecular biology of blood coagulation; molecular genetics and cardiotoxicity of coxsackie B3 virus; neural regulation of blood volume; regulation of the cerebral blood brain barrier; endothelial cell regulation of cerebral vascular tone and permeability; volume regulation in heart failure and diabetes; developmental biology of the heart and major arteries; ion transport in cardiac myocytes, smooth muscle and red blood cells; neural regulation of cardiovascular and pulmonary function in heart failure; control of hematopoietic stem cell production; calcium signaling in cardiac muscle; adrenergic signal transduction; neuro-humoral regulation of the circulation in heart failure.

Applicants must be United States citizens or permanent residents. Pre-doctoral applicants should send an undergraduate transcript, GRE scores, and two letters of reference, along with a statement of career goals. Post-doctoral applicants should send a curriculum vitae, a graduate transcript, two letters of reference and a statement of graduate research and career goals. Information should be sent to:

Irving H. Zucker, Ph.D.
Professor and Chairman
Department of Physiology and Biophysics
University of Nebraska College of Medicine
984575 Nebraska Medical Center
Omaha, NE 68198-4575
izucker@mail.unmc.edu
FAX: (402) 559-4438

University of California, San Francisco Neurology Alcohol Research Program & The Ernest Gallo Clinic and Research Center

The Alcohol Research Program at UCSF is a multidisciplinary team organized to investigate fundamental mechanisms of alcohol addiction. We have developed innovative approaches in molecular and cell biology, human genetics, and behavioral pharmacology, and we have pioneered in bringing invertebrate genetics to the forefront of alcohol research. Our goal is to identify and validate new molecular targets for therapeutic intervention, which will involve significant effort in drug discovery and development in the years ahead. As part of a major expansion we seek applications from qualified and motivated individuals to pursue research in any of the specific areas described below.

Adrienne Gordon, Ph.D., Ivan Diamond, M.D., Ph.D.: Cellular and animal models to study the molecular bases of alcohol tolerance, dependence, and craving.

- Senior postdoctoral fellow/staff scientist with a background in neuroscience.
- Postdoctoral fellow with experience in biochemistry, cell biology, neuroanatomy, and/or molecular biology of signal transduction.

Ulrike Heberlein, Ph.D.: Molecular genetics of ethanol-induced behaviors in *Drosophila*.

- Research associate with experience in *Drosophila* genetics and molecular biology.

Clyde Hodge, Ph.D.: Neurobehavioral pharmacology of drug craving and reinforcement in rodent models of addiction.

- Senior postdoctoral fellow/staff scientist with a background in behavioral neuroscience or behavioral pharmacology as well as experience with mammalian models of addiction. Additional background in neuroanatomy or neurophysiology is desired.
- Postdoctoral fellow with a background in neuroscience, molecular biology, cell biology, or behavioral science.
- Research associate with experience in general *in vivo* laboratory methods as well as mouse transgenic/knockout technology.

Steve McIntire, M.D., Ph.D.: Genes required for ethanol responses and synaptic function in *C. elegans*.

- Senior postdoctoral fellow/staff scientist preferably with a background in *C. elegans* genetics and molecular biology.
- Postdoctoral fellow with experience in molecular biology, genetics, or cell biology.
- Research associate with prior experience with *C. elegans*.

Robert Messing, M.D.: Mouse gene targeting and transgene expression to examine signal transduction pathways in alcohol dependence and addiction.

- Senior postdoctoral fellow/staff scientist with a background in inducible transgene expression in mice.
- Postdoctoral fellow with a background in neuroscience or signal transduction.
- Research associate with experience in mouse breeding, histology of the nervous system, and/or molecular biology.

Michael Miles, M.D., Ph.D.: High-density oligonucleotide array analysis of central nervous system gene expression during behavioral responses to alcohol.

- Postdoctoral fellow with experience in behavioral neurobiology, molecular biology, and/or neuroanatomy.

Dorit Ron, Ph.D.: Effects of alcohol on protein anchoring and scaffolding in signal transduction.

- Postdoctoral fellow with experience in biochemistry, cell biology, neuroscience, and/or molecular biology of signal transduction.

Kirk Wilhelmsen, M.D., Ph.D., Cheryl Jay, M.D.: Mapping human genes that contribute to alcoholism.

- Senior staff scientist in bioinformatics, preferably with experience in genetics.
- Postdoctoral fellow with experience in statistical biology.
- Postdoctoral fellow with experience in linkage analysis, association studies, mutation detection, and candidate gene screening.
- Research associate with experience in molecular genetic analysis.
- Senior staff scientist with a background in assessment of addictive disorders and personality traits and experience in psychometrics.
- Postdoctoral fellow with experience in clinical studies of addiction, particularly alcoholism.

Senior postdoctoral fellows/staff scientists should have several years of postdoctoral experience in academic science or biotechnology and be interested in carrying out independent and innovative research in an interdisciplinary team environment. Postdoctoral fellows should have a Ph.D. or M.D. in the appropriate areas of research. Research associates should have a B.S. or M.S. degree and some relevant laboratory experience. Salary levels will be commensurate with experience. Applications including a curriculum vitae, summary of research experience, and names of three references should be sent by letter directly to the appropriate faculty member at the following address: **(Faculty Name), UCSF Gallo Center, Building 1, Room 101, San Francisco General Hospital, San Francisco, CA 94110.**

For further information about the Alcohol Research Program at UCSF, please visit our website at <http://egcrc.ucsf.edu>.

UCSF is an Equal Opportunity Employer.

Biochemistry/X-ray Crystallography Research Associates

Sunesis Pharmaceuticals is a venture-funded company dedicated to the discovery of small-molecule drugs by the integration of innovative chemical and biological approaches. Our co-founders, **Dr. Jim Wells** (formerly of Genentech) and **Prof. Jon Ellman** (UC Berkeley), have made important contributions to the fields of protein engineering and combinatorial chemistry throughout the 1990s.

We are looking for two Research Associates who wish to participate in building this exciting technology-driven company. Both positions require adaptable, organized, efficient people who communicate well and wish to gain expertise in a wide array of techniques.

Biochemistry Research Associate: The successful candidate will carry out the cloning, expression, and purification of target proteins; develop lead discovery methods; characterize lead molecules using binding and cell-based activity assays; work up and analyze data; and present results at meetings. Experience in most or all of these areas, in addition to a basic understanding of equilibrium binding and enzyme kinetics, are strongly desired. A B.A./B.S. in biochemistry, molecular biology, or chemistry is required. Job code BC898.

X-ray Crystallography Research Associate: The successful candidate will have proven success in protein purification and characterization, with experience in crystallization also desired. The ability to collect X-ray diffraction data a definite plus. Experience in the construction and use of recombinant protein systems is also beneficial. An M.S. or B.S. with 2+ years of related experience is required. Job code XR898.

We offer the opportunity for career growth, a highly competitive salary, generous equity participation, and an attractive benefits package. Please send your résumé, including cover letter and list of references, to:

Sunesis Pharmaceuticals
3696 Haven Avenue #C
Redwood City, CA 94063

or e-mail to: jobs@sunesis-pharma.com including the job code on the subject line.

Position Title: PLANT PHYSIOLOGIST-WEEDS

Series/Grade: GS-0435-12

Salary: \$46,254 to \$60,135 per annum (Includes 5.42% Locality Pay) Type of Appointment: Permanent

Location of Position: PEST MANAGEMENT & AGRICULTURAL SYSTEMS RESEARCH, SIDNEY, MONTANA

Announcement Number: ARS-X8W-226

Closing Date: AUGUST 17, 1998

Area of Consideration: U.S. CITIZENS

DUTIES: Conducts research concerning weed management systems that reduce environmental impacts in irrigated and dry land farming systems. Determines the influence of weed management systems on crop production practices and the environment. Serves as a member of a team conducting research to obtain knowledge about the biology and cultural management methods that can be used to control northern Great Plains weeds. Research objectives are to develop and test integrated weed management systems that reduce herbicide use and the potential for off-site movement of herbicides; to determine the influence of weed management systems on weed population dynamics and the weed seed bank in the soil; and to determine the interaction between weed population dynamics and the effectiveness of cultural and chemical weed control techniques.

QUALIFICATIONS: All candidates must have a degree in plant physiology or a related scientific discipline that included at least 10 semester hours in plant physiology. Candidates must have 1 year of specialized experience equivalent to the GS-11 grade level in the Federal government that has provided (1) knowledge of research methods used in plant physiology and integrated plant management systems (ecology); (2) ability to conduct research using appropriate experimental design, procedures, techniques, and statistical analyses; (3) ability to communicate proficiently with industry representatives, regulatory officials, and other scientists; and (4) ability to publish written results in peer-reviewed scientific journals. A Ph.D. or equivalent doctoral degree that has provided the above knowledges and abilities may be substituted for the experience requirement.

APPLICATION INFORMATION: Contact Person: **Charlotte Anderson**, USDA, ARS, Northern Plains Area, 1500 North Central, Sidney, MT 59270, E-mail: canderson@sidney.ars.usda.gov; Telephone: 406-482-2020; Fax: 406-482-9450; INTERNET ADDRESS: www.ars.usda.gov; Fax: 301-504-1535, E-mail: scirecruit@ars.usda.gov. The U.S. Department of Agriculture is an Equal Opportunity Provider and Employer.



MAYO CLINIC

POSTDOCTORAL FELLOWS AND TECHNICIANS

Motivated research technicians and postdoctoral fellows required to develop innovative approaches to cancer gene therapy at Mayo Clinic Rochester. Successful applicants will join the Molecular Medicine Program, headed by **Dr. Stephen J. Russell**, recently recruited to Mayo Clinic to establish new programs of gene therapy research. Topics for individual projects include: the development of targeted gene delivery vehicles capable of efficient cell-specific *in vivo* gene delivery; the use of forced evolution (randomization/selection) strategies for the optimization of vector performance; the development of novel therapeutic genes with potent bystander effects to mediate efficient tumor destruction *in vivo*; and the development of novel strategies to harness the immune system for treatment of cancer. *In vivo* testing and clinical translation of promising vectors will be a high priority. Experience in molecular biology, protein engineering, tumor immunology, gene transfer technologies, and/or *in vivo* cancer models is desirable. Application deadline is August 31, 1998. Please send curriculum vitae and bibliography to:

Mr. Owen E. McClure

Mayo Foundation

Research Administration, Siebens 6th Floor
200 First Street Southwest
Rochester, MN 55905

Informal e-mail inquiries should be sent to **Dr. Stephen J. Russell** at sjr@mrc-lmb.cam.ac.uk.

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



St. Jude Children's Research Hospital

ALSAC • Danny Thomas, Founder

Postdoctoral Position in Molecular Neurobiology

This laboratory is interested in identifying molecular events that play a defining role in the processes of neuronal degeneration. Presently the main focus of this work concerns the molecular events that underlie the human neurodegenerative syndrome of ataxia telangiectasia (for a description of recent work see; Science [1998] 280, 1089).

This NIH-funded postdoctoral position would be suited to a recent Ph.D. and/or MD with a molecular biology or neurobiology background. This position will provide excellent training for someone interested in obtaining experience in current techniques in molecular neurobiology. Support facilities at this institution are exceptional, and the research environment is highly interactive. This position is available immediately, and interested candidates should send a curriculum vitae and must arrange to have three letters of recommendation sent to: **Peter McKinnon, Ph.D., Department of Genetics, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105-2794.** EOE.



**Postdoctoral Position at NIH
Gene Isolation, Regulation and
Insulin-Dependent Diabetes Mellitus
(IDDM)**

Two positions, for up to five years, available immediately. The laboratory clones, sequences, expresses, and determines the function of novel genes in the beta cells of the pancreas, particularly in relationship to IDDM. Current emphasis is on the function of two of five recently isolated genes, IA-2 and IA-2B, which are members of the protein tyrosine phosphatase family and major autoantigens in IDDM. The autoimmune response to these autoantigens is highly predictive in identifying individuals likely to develop clinical disease. Applicants should have an M.D., Ph.D., or equivalent, with a strong background in molecular biology and/or cell biology and at least one year of postdoctoral research experience. Send curriculum vitae, bibliography, and names of three references to: **Abner Louis Notkins, M.D., Chief, Experimental Medicine Section, Infection and Immunity Branch, NIDR, NIH Building 30, Room 121, 30 Convent Dr. MSC 4322, Bethesda, MD 20892-4322, Voice: (301) 496-4535; Fax: (301) 402-4163, E-mail: notkins@yoda.nidr.nih.gov.**

NIH is an Equal Opportunity Employer

**Postdoctoral
Fellowships**

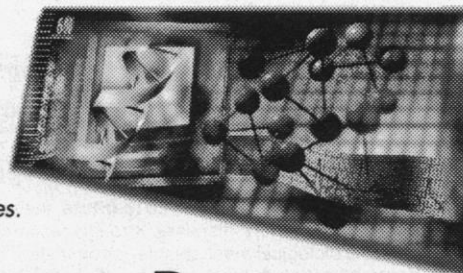
Two Postdoctoral fellowship positions are available in the Genetics of Cancer Susceptibility Group in the Mammalian Genetics Laboratory (MGL), to work on the functional analysis of mouse Brac1 and Brac2 proteins and their interacting proteins using ES cell technology, BAC transgenic mice, and yeast two-hybrid method. Candidates should have experience with molecular biology and/or biochemistry techniques. Experience with mouse or yeast genetics background preferred. Candidates must have the ability to work in an interactive collaborative environment and have excellent communication skills. More information about the ABL-Basic Research Program and their research may be found at their website: <http://nmrweb.ncicrf.gov/abl>.

The ABL-Basic Research Program is located at the NCI-Frederick Cancer Research and Development Center, Frederick, MD (45 miles north of Washington, D.C.), and offers a full complement of benefits, competitive postdoctoral stipends, and an excellent work environment. To apply, please send a curriculum vitae, an introductory letter containing a brief description of research experience, and contact information for three references to:

Dr. Shyam K. Sharan
c/o Human Resources Dept.-SS
ABL-Basic Research Program
NCI-FCRDC
P.O. Box B, Bldg. 428
Frederick, MD 21702



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IMMUNOLOGY

Postdoctoral Fellow-Immunology

A fully funded position is available for a researcher with a strong background in immunology to study chemokine biology using transgenic and knock-out approaches. Areas of concentration include development of conditional genetic systems to study chemokines and their receptors and development of new genetic models of inflammation. Requires a PhD in Molecular Biology, Immunology or a related field in addition to experience with mouse genetics and *in vivo* biology. For consideration, respond to Dept. DMS/PD/SL.

INFECTIOUS DISEASES

Postdoctoral Fellow-Actinomycete Molecular Genetics

Will join an interdisciplinary team in the Microbial Products Group involved in Actinomycete molecular biology and secondary metabolism. Requires a PhD in Molecular Biology or a related discipline with expertise in microbial genetics and molecular biology. Experience in the molecular biology of actinomycetes and secondary metabolite production (particularly in heterologous expression of secondary metabolites) would be an advantage. For consideration, respond to Dept. DMS/PD/TH.

Postdoctoral Fellowships-Fungal & Bacterial Diseases

Two positions are available for highly motivated, innovative individuals with a strong interest in bacterial and fungal virulence. In these challenging roles, you will develop methodology to define genes important in pathogenesis. Requires a PhD and expertise in bacterial or fungal systems. Additional experience and/or knowledge of animal models is desirable. For consideration, respond to Dept. DMS/PD/KS.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume which MUST include the specific Dept. Code for your position of interest and salary requirements to: Human Resources-DMS, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. Please visit our web site at <http://www.sp-research.com> for additional information. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



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LOVELACE RESPIRATORY RESEARCH INSTITUTE

Lung Cancer Biologists and Respiratory Immunologists

Lovelace Respiratory Research Institute, the nation's only Institute dedicated to eradicating respiratory diseases through research aimed at understanding their causes and biological mechanisms, is committed to recruiting new junior and senior staff members to study mechanisms underlying lung cancer development, pulmonary immunology, and asthma.

The lung cancer program presents a unique opportunity for scientists to conduct both independent and highly interactive research. With strong affiliations at the University of New Mexico and Veterans Hospital, it is possible to conduct research using both animal models and human subjects and to actually translate findings in the laboratory to the clinic. Moreover, strong ties with the Epidemiology Department at the University of New Mexico allow opportunities to also conduct population-based research. The Lung Cancer Program is multidisciplinary but with a focus on applying research discoveries ultimately to early detection and intervention. Areas of research needed to enhance the program include but are not limited to angiogenesis, nuclear transcription factors, and chemointervention.

The immunology program is focused on recruiting scientists who have research experience in the basic mechanisms of the development of immune and/or inflammatory responses in the lung as well as in the roles of these responses.

Successful candidates will be provided with an excellent start-up package. Send cover letter indicating research interests and resume in complete confidence to **Dr. Steven Belinsky, Director of the Lung Cancer Program (refer to Job #S798) or Dr. David Bice, Director of Immunology Program, (refer to Job #S698), Lovelace Respiratory Research Institute, P.O. Box 5890, Albuquerque, NM 87185 or by e-mail to hrrmail@lrri.org, Dr. Belinsky or Dr. Bice.**

We are an Equal Opportunity Employer.



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FOR INFORMATION CONTACT:

U.S.: Bren Peters
Phone: 202-326-6541
Fax: 202-289-6742
E-mail: science_displayads@aaas.org

Europe: Debbie Cummings
Phone: 44 (0) 1223 302 067
Fax: 44 (0) 1223 576 208
E-mail: european_ads@science-int.co.uk

Procter & Gamble

CARDIOVASCULAR BIOLOGY

*Procter & Gamble
Pharmaceuticals
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Scientist in
cardiovascular
biology at the
Health Care
Research Center
in Mason, Ohio
near Cincinnati.*



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please. Applicants must
be presently authorized
to work in the U.S. on
a full-time basis.

Equal Opportunity
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• Senior Research Scientist

The successful candidate will be an established research leader in the fields of inflammation and vascular cell adhesion molecules with 3-5 years of independent research. The role of this individual will be to conduct research as part of a multifunctional team with the goal of identifying therapeutic agents effective at preventing myocardial damage resulting from acute episodes of ischemia and reperfusion. The ideal candidate will have expertise and a record of publication on immune regulation of leukocyte and endothelial cell function and its role in cardiovascular disease states. A good working knowledge of the cell biology and physiology of the cardiovascular system is essential. Well developed written and oral communication skills are also required.

Procter & Gamble is a Fortune 20 company that has been consistently rated as one of the "most admired" corporations in the U.S. Our support for research and development has increased substantially in recent years, with growing emphasis being placed in expanding the Health Care area. This is evidenced by P&G's recent construction of a world-class Health Care R&D facility outside of Cincinnati, Ohio, that is capable of housing 2,000-2,500 researchers by the end of the decade. In addition, our top-rated benefits package serves to support the company's commitment to obtain and retain the best qualified scientists. Qualified candidates should send resume and publication list to:

Dr. G. D. Owens • The Procter & Gamble Company
Doctoral Recruiting, Dept. RH • P.O. Box 538707
Cincinnati, OH • 45253-8707
E-Mail: rolfes.rl@pg.com
(plain text or Microsoft Word only please)

Postdoctoral Positions In Cell Biology

Mount Sinai School of Medicine is in the midst of substantial growth. Under the leadership of a new Dean, we are expanding our research and core facilities.

**Mount
Sinai**

The Department of Cell Biology and Anatomy occupies 25,000 square feet on the 18th floor of the Annenberg Building which overlooks Central Park on Manhattan's "Museum Mile," and houses current research including the study of macromolecular assemblies involved in organelle biogenesis, signal transduction, cell motility, cell-cell interactions, and RNA formation.

This continued growth has created exciting postdoctoral opportunities. Specific research interests of participating faculty include the following:

-Avrom Caplan, Ph.D. (caplan@msvax.mssm.edu)
Role of molecular chaperones in signal transduction and macromolecular assembly.

-Paul B. Lazarow, Ph.D. (lazarow@msvax.mssm.edu)
Biogenesis of peroxisomes in yeast; genetic defects in human peroxisome assembly that cause fatal neurological disease (e.g. Zellweger syndrome).

-Sandra K. Masur, Ph.D. (masur@inka.mssm.edu)
1.) Integrins, growth factors, and cadherins in the cell biology of wound healing; and 2.) Impact of targeted mutations in extracellular matrix molecules on cell structure and function.

-Anne Moscona, M.D. (A_Moscona@smtplink.mssm.edu)
Molecular mechanisms responsible for the pathogenesis of human parainfluenza viruses.

-Serafin Pinol-Roma, Ph.D. (spinolr@smtplink.mssm.edu)
Ribonucleoprotein assemblies, the nucleolus, and nucleocytoplasmic exchange of proteins and RNA.

-Aurelian Radu, Ph.D. (radua01@doc.mssm.edu)
Nucleocytoplasmic transport in mammalian cells; intracellular traffic of non-viral vectors for gene therapy.

-Lynn Schnapp, M.D. (lschnapp@smtplink.mssm.edu)
1.) Integrin-extracellular matrix interactions and their role in the development of cardiopulmonary disease; and 2.) Effect of HIV infection on interactions between lymphocytes, microvascular endothelium, and surrounding extracellular matrix.

We offer excellent benefits, as well as a stimulating and challenging environment. For more information on the Department of Cell Biology and Anatomy, visit our web site at <http://www.mssm.edu/cellbio>. Please direct inquiries and curriculum vitae for your area of interest to the faculty member's e-mail address or to the following mail address: **Department of Cell Biology and Anatomy, Mount Sinai School of Medicine, Box 1007, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an equal opportunity employer fostering diversity in the workplace.

Mount Sinai School of Medicine

NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE OF DENTAL RESEARCH DIVISION OF EXTRAMURAL RESEARCH

The Division of Extramural Research (DER) is the organization within the National Institute of Dental Research (NIDR) responsible for planning, directing, and administering all grants and cooperative agreements, training and career development awards, and research contracts related to craniofacial, oral, and dental diseases and disorders for the Institute. The DER invites nominations and applications for four Health Scientist Administrator/Medical Officer positions to manage portfolios of grants, awards, and contracts in the following areas:

Inherited Diseases Program Director: requires knowledge of or experience in molecular or developmental biology. Announcement DE-98-0028; Fax ID# 3050.

Chronic and Disabling Diseases Program Director: requires knowledge of or experience in chronic and disabling diseases including neurodegenerative diseases, pain conditions, bone and connective tissue diseases, autoimmune diseases, and the interrelations among chronic systemic diseases. Announcement DE-98-0029; Fax ID# 3001.

Clinical Trials and Clinical Core Centers Program Director: requires knowledge of or experience in clinical trials design, implementation, and assessment. Announcement DE-98-0030; Fax ID# 3002.

Emerging and Re-emerging Infectious Diseases and Immunology Program Administrator: requires knowledge of or experience in microbiology of infectious diseases in general and/or AIDS/HIV and related conditions. This position may be filled at the GS-12, 13, or 14 level only. Announcement DE-98-0031; Fax ID# 3003.

Appointment in the Federal Civil Service at grades GS-13, 14, or 15, or in the PHS Commissioned Corps, may be appropriate. Selection at the GS-15 or PHS grade 0-6 level, in addition to meeting the Civil Service or Corps requirements, is subject to individual approval by a peer review group, unless the selectee currently holds a GS-15 or 0-6 position in the NIH extramural community. Grade and salary are commensurate with professional qualifications and experience. Salary ranges from \$55,969 to \$101,142 per annum. *U.S. citizenship is required.* These positions may be filled either on a permanent or time-limited basis as determined by mutual agreement between the selectee and NIDR.

Applicants should have a D.D.S., M.D., or Ph.D. degree (or equivalent) in a science related to health, dentistry, and/or medicine, and experience as stated above. Demonstrated ability in science administration is required for all positions. Activities include planning and implementing research initiatives through grants, contracts, and/or cooperative agreements and providing administrative and scientific oversight of proposals and awards.

Applicants may submit a curriculum vitae and bibliography, résumé, Optional Application for Employment OF-612 (available in any Federal personnel office), or any other written format that addresses the requirements indicated in the announcement. When submitting an application, be sure to indicate the specific position for which you wish to apply by writing the announcement number on the application. A separate application addressing the stated selective factors must be submitted for each position for which you wish to apply.

To receive a faxed copy of the vacancy announcement for any of these positions, call (301) 594-2953 and cite the Fax ID# listed above. The full texts of the vacancy announcements also are available on the NIDR Home Page at <http://www.nidr.nih.gov>. Further information about the position, including the knowledge, skills, and abilities (KSAs) for these positions may be obtained from:

Ms. Judy Dulovich
Personnel Management Specialist
National Institute of Dental Research
31 Center Drive, MSC 2290
Bldg. 31, Room 2C-39
Bethesda, MD 20892-2290
(301) 496-6971

Applications should be sent to Ms. Dulovich and must be postmarked by the closing date of September 14, 1998.

NIH is an Equal Opportunity Employer.



The Molecular Cardiology Center at Penn
Postdoctoral positions available
in Cardiovascular
Development and Vascular Biology

- 1) Transcriptional mechanisms controlling development and morphogenesis with emphasis defining the function(s) of GATA factors and related co-factors.
- 2) Transcriptional programs controlling vascular smooth muscle cell differentiation and modulation of the smooth muscle cell phenotype.
- 3) Signaling between endoderm and mesoderm during embryonic development.

Applicant must be permanent resident or U.S. citizen.

Send CV and names of 3 references to:

Michael Parmacek, M.D.
University of Pennsylvania
Room 813 Stellar Chance Bldg.
422 Curie Blvd.
Philadelphia, PA 19104-6100
Fax: (215) 573-2094

RESEARCH SCIENTISTS

Avigen, Inc. is a leader in the important development of gene therapy based on adeno-associated virus (AAV) for the treatment of inherited & acquired diseases. We have a great opportunity for a number of hands-on scientists to join our research team in Alameda, CA, which develops new gene delivery systems with capabilities not currently available. The group functions in an open and interactive manner and the publication of scientific results is encouraged.

We are looking for scientists with knowledge/experience in gene expression to develop systems for tissue-specific and/or controllable gene regulation for inclusion into our gene delivery vectors. Candidates MUST have a Ph.D. or M.D. and at least 2 years of postdoctoral experience in a relevant field.

We are also looking for Development and Production Scientists who will be responsible for development and production of recombinant AAV vectors for clinical trials. These positions REQUIRE a Ph.D. in a relevant field or equivalent; 8+ years of industrial experience with small/large-scale mammalian cell cultures under GMP, including working experience with live virus production; and familiarity with current analytical methods used in biologics production characterization, and with commonly used software.

We offer very competitive salaries, benefits paid in full by the Company, stock options, 401(k), and an exciting opportunity to work with a dynamic team focused on exploring the impact of gene therapy on selected human diseases.

To apply, e-mail/send/fax résumé to: **Avigen, Inc., Human Resources**, 1201 Harbor Bay Parkway, Suite 1000, Alameda, CA 94502; e-mail: sdelph@avigen.com, fax: (510) 748-7155. **EOE**



Postdoctoral Position

A position is available to study at the molecular level, how components of the nucleocytoplasmic transport machinery contribute to the development of human cancer.

Specific studies include: analysis of the transcriptional properties of nucleoporins and their fusion partners in myeloid leukemia; analysis of the normal function of oncogenic nucleoporins and their fusion partners using gene-knockout/in animals. A strong background in biochemistry or molecular biology is desirable, with preference given to individuals experienced in transcriptional regulation, nucleocytoplasmic transport, or the use of animal models.

Send CV and names of references to:

Dr. Jan van Deursen
Department of Genetics
St. Jude Children's Hospital
332 North Lauderdale
Memphis, TN 38105
Ph: 901-495-2699 Fax: 901-526-2907
E-mail: jan.vandeursen@stjude.org

Equal Opportunity Employer

Faculty Position in Behavioral Pharmacology
University of California, San Francisco
Neurology Alcohol Research Program & The Ernest
Gallo Clinic and Research Center

The University of California, San Francisco Neurology Alcohol Research Program and the Ernest Gallo Clinic and Research Center seek highly qualified applicants for faculty positions at the Assistant Professor/Associate Professor level to pursue research in alcoholism and drug addiction. The Alcohol Research Program is a multidisciplinary team organized to investigate fundamental mechanisms of alcohol addiction. We have developed innovative approaches in molecular and cell biology, human genetics, and behavioral pharmacology, and we have pioneered in bringing invertebrate genetics to the forefront of alcohol research. As part of major expansion, we seek applications from qualified and motivated individuals who have completed 3-5 years of relevant postdoctoral training or independent research. Candidates should be capable of directing a rigorous research program in behavioral pharmacology. Recruits are expected to participate in the teaching activities of the UCSF Program in Biological Sciences, the Graduate Program in Neuroscience, and the UCSF Center for the Neurobiology of Addiction. For further information please view our website at <http://egcrc.ucsf.edu>. Applicants should send their curriculum vitae and the name, address, and phone number of four references to:

Behavioral Pharmacology Search Committee
Adrienne Gordon, Ph.D.
University of California, San Francisco
Gallo Center
Building 1, Room 101
1001 Potrero Avenue
San Francisco, CA 94110



CORVAS INTERNATIONAL, INC., a dynamic and innovative biopharmaceutical company, is engaged in the design and development of next generation therapeutic agents for the prevention and treatment of major diseases in the cardiovascular, inflammatory and cancer arenas. Located in the scientifically stimulating "biotech beach" area of La Jolla, we are currently seeking highly motivated candidates for the following positions:

SENIOR SCIENTIST
(MOLECULAR BIOLOGY, PROTEASE REGULATION)

You will be an integral member of a team focusing on the regulation of protease function. Significant experience with in vitro evolution of proteins and/or nucleic acids, as well as standard techniques of molecular biology are essential. Phage or equivalent display technologies, bacterial expression systems or bacterial genetics is highly desirable. Previous work in the area of allosteric regulation of protein function is a plus. A PhD with 2+ years relevant post-doctoral experience is required.

SENIOR SCIENTIST
(MOLECULAR BIOLOGY, VASCULAR BIOLOGY)

Join our team focusing on the cloning of novel vascular endothelial membrane proteins with potential therapeutic interest, including vascular targeting. Demonstrated experience in genomic and/or cDNA cloning (conventional and expression-based methodologies) as well as standard methodologies in molecular biology are essential. Experience in phage display of peptides, proteins and antibodies is desirable. A PhD with 2+ years relevant post-doctoral experience is required.

MANAGER
(CLINICAL DEVELOPMENT)

As a member of the clinical development team, you will manage ongoing and planned clinical evaluations of proprietary protein-based therapeutic agents, including CRO management and clinical center auditing. Requires an advanced post-graduate degree with 5+ years demonstrated clinical trials management experience or a BS/RN degree with a minimum of 8-10 years related experience, preferably within the pharmaceutical industry. Proven clinical program management experience with deadline and budget responsibilities is essential. Experience in cardiovascular clinical development is preferred.

SENIOR SCIENTIST
(CHEMISTRY)

The successful PhD-level candidate will conduct state-of-the-art research in several areas of interest, including rational design and synthesis of peptidomimetics, diversity/combinatorial chemistry, and multi-step organic syntheses. Candidate will also propose/develop new programs on protease inhibitors. Requires 5-10 years experience in pharmaceutical synthetic and/or medicinal chemistry, and an ability to lead a small team of chemists.

For consideration, please send/fax CV with letter to: Corvas International, Attn: HR, 3030 Science Park Road, San Diego, CA 92121; Fax (619) 455-0457; www.corvas.com. EOE.

CORVAS
INTERNATIONAL

Tenure-Track Research Positions
Laboratory of Population Genetics
National Cancer Institute, NIH

Tenure-track positions are available in the National Cancer Institute's new Laboratory of Population Genetics (LPG) for individuals with a Ph.D. and/or M.D. interested in interdisciplinary laboratory studies in human cancer genetics. The LPG is assembling a multidisciplinary team of independent researchers who have strong backgrounds in laboratory studies. This team will perform studies aimed at the positional cloning of genes, comprehensive genomic analysis of cancer (and related) phenotypes, molecular epidemiology of genetic susceptibility to cancer, functional genomics of cancer genes, and functional genetics of identified mutations.

The LPG is interested in scientists with experience in genomics and its application in genetic analysis. Relevant genomics experience includes, but is not limited to, high-throughput genetic mapping, radiation hybrid mapping, STS content mapping, microarray expression studies, and/or large-scale sequencing. Experience with application of these techniques in the genetic mapping, physical mapping, and/or positional cloning of either simple or complex traits is desirable. The LPG is also interested in scientists with experience in model organism genetics. This includes the genetic mapping and cloning of genes using traditional rodent models as well as the generation and manipulation of transgenic animals. The laboratory is also interested in scientists with experience in the genetic analysis of other model systems. These include, but are not limited to, *S. cerevisiae* and *C. elegans*. Research projects that permit translation between human and models systems is of highest priority.

The successful applicant will be provided with office space, dedicated laboratory space, desktop computing, and access to sophisticated genetic and genomics informatics infrastructure and support. S/he will have access to state-of-the-art instrumentation including automated electrophoresis instrumentation, microarray readers, and robotics. The investigator will also have access to high-throughput genotyping and sequencing facilities. Technician and postdoctoral fellow positions will be assigned to the investigator based on the research requirements specified by the program. Administrative support staff in the branch will assist in secretarial, administrative, and research support activities.

A two-page statement of research interests and goals, a curriculum vitae, and three letters of reference should be submitted to:

Dr. Robert Strausberg
c/o Mr. Patrick Miller
National Cancer Institute, NIH
Room A206, 41 Library Drive, MSC 5055
Bethesda, MD 20892

The National Cancer Institute is an Equal Opportunity Employer.



Two Positions Available Department of Neuroscience Brown University

Assistant Professor And Assistant or Associate Professor

The Department of Neuroscience is seeking two individuals with research interests in neural systems at the Assistant Professor level (tenure-track) and Associate Professor level (tenured or tenure-track). Appropriate fields of study include the neurobiology of sensory processing, motor control, learning and memory, and higher cognitive functions using electrophysiological or functional imaging methods.

Criteria for Assistant Professor: Ph.D. or M.D. Two or more years of postdoctoral experience in research; ability for independent research and potential to secure external funding to support a scholarly research program; potential to be an effective teacher and mentor for undergraduate and graduate students.

Criteria for Associate Professor: Ph.D. or M.D. **Teaching** — Effectiveness as a lecturer and mentor of graduate students and postdoctoral fellows. Ability to direct courses at the undergraduate and graduate level. **Research** — Record of scholarly productivity through publication in peer-reviewed journals and a record of presentation at scientific meetings and research seminars; established program of research with continuity of funding and continuous productivity; national reputation for excellence in scholarship and a record of professional service to the scientific and academic community.

All applications received by October 1, 1998, will be given full consideration. Please specify if you are applying at Assistant or Associate Professor level. Submit a curriculum vitae, a set of representative reprints, a concise description of research interests and goals, and arrange for three (Assistant Professor) or five (Associate Professor) letters of reference to be sent to:

John P. Donoghue, Department of Neuroscience, Brown University, Search Committee, Box 1953, Providence, RI 02912.

Brown University is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF BOTANY UNIVERSITY OF TORONTO

TWO FACULTY POSITIONS

PLANT POPULATION GENETICIST AND TERRESTRIAL PLANT ECOLOGIST

The Department of Botany, University of Toronto invites application for TWO tenure-track positions at the Assistant Professor level effective 1 July 1999. We seek (1) a plant geneticist with research interests in population and evolutionary genetics. We are particularly interested in applicants using molecular and theoretical approaches to the study of evolutionary processes and with interest in teaching genetics and evolution. (2) A terrestrial plant ecologist with research interests in one or more of the following areas: theoretical and/or experimental community ecology, ecosystem processes including biogeochemical cycling, paleoecology, and interactions between organisms. Applicants should have an interest in contributing to courses in terrestrial field biology and to interdisciplinary programs.

Successful candidates will be expected to develop a vigorous, externally funded research program, train graduate students, and teach at both the graduate and undergraduate levels. A Ph.D. and postdoctoral experience is expected. Applicants should submit a curriculum vitae, copies of up to five recent publications, statements of research and teaching interests, and arrange for three letters of recommendation to be forwarded to the Chair of the Search Committee by October 15, 1998. Applications, specifying the position applied for, should be sent to either (1) **Professor Spencer Barrett, Chair of Population Genetics Search Committee**, or (2) **Professor Robert Jefferies, Chair of Plant Ecology Search Committee**, at the Department of Botany, University of Toronto, 25 Willcocks Street, Toronto, Ontario M5S 3B2 Canada.

The University of Toronto encourages applications from qualified women or men, members of visible minorities, aboriginal people, and persons with disability.

Research Investigator, Ph.D.

Pfizer Inc., a Fortune 100 company, enables its scientists to practice good science and develop their skills in a fast-paced, close knit environment with one of the most envied product pipelines in the world. We take great pride in providing our employees with a collegial environment that gives them the opportunity to work collaboratively in a multidisciplinary scientific community representing the world's finest corporate and academic resources. So if you want to continuously push the boundaries of science while you continue to push your own development, join us at Pfizer for an education in growth and success.

We are seeking a Biochemist working in the field of cytokine signal transduction to join an active, multidisciplinary team of investigators in the discovery of novel agents for the treatment of allergic and respiratory diseases including asthma and allergic rhinitis. Ph.D. in Immunology, Biochemistry or related field and a minimum of 3 years' post-doctoral signal transduction research experience in an academic or industrial environment is required. Successful candidates will have a demonstrated record of independent and creative research in biochemical pharmacology of cytokine signal transduction.

Located in historic Groton, CT, Pfizer offers you a high quality of life close to New York City, Providence and Boston. We also offer very competitive salaries and excellent benefits, including medical/dental coverage, on-site advanced degree programs, 100% tuition reimbursement and generous relocation assistance. For confidential consideration, please forward your resume to: **John Watson, Ph.D., Manager, Allergy and Respiratory Disease Biology, Employee Resources, Pfizer Inc, Job Code #2748, Central Research Division, Eastern Point Road, Groton, CT 06340; Phone: (203) 441-4166; Fax: (203) 441-5719. For more information on current career opportunities, please visit our Web site at: <http://www.pfizer.com>.** We are an equal opportunity employer dedicated to diversity M/F/D/V.



We're part of the cure.

CONFERENCE

9th INTERNATIONAL CONFERENCE OF THE INFLAMMATION RESEARCH ASSOCIATION

November 1-5, 1998

THE HERSHEY LODGE AND CONVENTION CENTER
HERSHEY, PENNSYLVANIA, USA

This Conference usually attracts 400-500 attendees from all disciplines involved in inflammation research and from all stages in the process of discovery and development of drugs for inflammatory diseases. In addition to the main symposia, the format of the Conference encourages maximum participation by attendees (poster, poster discussions, workshops). Many opportunities for informal discussions are also provided. The proceedings of the Conference will be published by *Inflammation Research*.

SYMPOSIUM TOPICS:

- Molecular Signaling
- Transgenic Mice in Inflammation Research
- Chemokines as Therapeutic Targets
- New Drugs for Inflammatory, Allergic, and Immunologic Diseases

WORKSHOPS/POSTERS

- Targets in Rheumatoid and Osteoarthritis
- Pulmonary Inflammation, Fibrosis, and Disease
- Chemokines/Cytokines
- Angiogenesis, Wound Repair, and Skin Inflammation
- Cancer, Chemoprevention, and Cell Cycle Regulation
- T-Cell Activation and Immune Regulation and Disease
- Cell Adhesion Molecules and Leukocyte Trafficking
- Mediators of Inflammation and Their Enzymes
- Signal Transduction: Regulation of Gene Expression
- New Drugs: Rational Design, Pharmacodynamics, Pharmacokinetics
- C. Gordon van Arman Scholarship Awards

For information, contact:

Joan Chapdelaine, Ph.D., Chrysalis Preclinical Services Corp., Scott Technology Park, 100 Discovery Drive, Olyphant, PA 18447, Phone: (717) 585-2211, Fax: (717) 585-2383, e-mail: joan.chapdelaine@chrysalisintl.com.

Unique Executive Employment Opportunity for Experienced Ph.D's

A large (in excess of \$13 billion), privately owned manufacturing company selling food-related consumer goods worldwide is looking to hire a director of its 15-person internal think tank group operating in North America and Europe. Examples of research areas include long-range weather forecasting, crop production/price modeling, intelligent agent technology, data visualization, neural networks, fuzzy logic, game theory, optimization modeling, and knowledge management, among others. Analytical approaches often involve using advanced mathematical, forecasting, and modeling techniques, and incorporate leading-edge thinking from a variety of disciplines.

We are looking for a scientist with 10–15 years of post-Ph.D experience from anywhere across a broad range of natural, physical, or social sciences; an interdisciplinary background is preferred, but not required. Candidates may come from academia (such as MIT, University of Chicago, etc.), independent think tanks (such as Santa Fe Institute, RAND, etc.), private and national laboratories (such as Battelle, Lawrence Livermore, Oak Ridge, etc.), R&D-driven companies (such as GE, 3M, etc.), or elsewhere. Most important are the candidate's abilities to use a scientist's and a business person's perspectives in identifying/prioritizing worthy projects, providing leadership to business unit executives in adopting new technologies, and managing a diverse group of people in executing the projects. Cash compensation will be well above academic and nonprofit pay scales.

Interested candidates should send a recent CV or résumé to **Amy Miller via fax (212-370-0896)** or e-mail (**amiller@russreyn.com**) at Russell Reynolds Associates, the executive search firm retained to conduct this assignment.

Staff Scientist - Computational Chemistry

The Hospital for Sick Children is a world renowned leader in health care, research and teaching. We are an integral part of an exciting research community which encompasses the University of Toronto and affiliated hospital research institutes which are home to an established group of experimental and theoretical structural biologists working with X-ray-crystallography, NMR spectroscopy and protein folding.

The Program in Structural Biology and Biochemistry at the Research Institute, The Hospital for Sick Children (HSC), invites applications for a staff scientist position in the field of computational chemistry to build on its current strength in research on the structure and function of biological macromolecules. The successful applicant would be expected to develop an outstanding independent research program and to compete effectively for external funding, as well as to obtain an appointment in a suitable department at the University of Toronto. Requirements include a Ph.D. degree or equivalent and at least two years of postdoctoral experience in the field of molecular mechanics or related computational approaches addressing questions of biological significance. The appointment can begin as early as January, 1999.

We offer an environment that is both professionally challenging and personally rewarding. Please forward your curriculum vitae outlining your current and long-term research objectives along with three letters of reference, no later than October 16, 1998, to: Dr. B. Sarkar, Chair, Search Committee in Computational Chemistry, Structural Biology and Biochemistry, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, M5G 1X8 Canada <http://www.sickkids.on.ca> The University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed firstly to Canadian Citizens and permanent residents.

A health care, teaching, and research centre dedicated exclusively to children; affiliated with the University of Toronto.



University of Toronto



THE HOSPITAL
FOR SICK CHILDREN

POSITIONS OPEN

ASSOCIATE DEAN FOR RESEARCH AND GRADUATE STUDIES

The University of Wisconsin Medical School seeks an individual with outstanding scientific and leadership credentials to serve as Associate Dean for Research and Graduate Studies.

The Associate Dean will work closely with faculty to coordinate and develop diverse research programs and facilities, and will report to the Dean of the Medical School.

The successful candidate will demonstrate a commitment to encouraging interdisciplinary/intercollege faculty research and graduate student training, as well as to exploring and fostering collaborative partnership with industry leaders.

The Associate Dean will maintain a strong research and/or teaching program as a faculty member in an academic department appropriate to his or her research interest.

Send curriculum vitae and letter of interest to: Elizabeth Craig, Ph.D., Chair, Associate Dean Search Committee, c/o Margie Martin, Room 1225 MSC, 1300 University Avenue, Madison, WI 53706. To ensure full consideration, please apply by September 1, 1998. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality. The UW-Madison is an Equal Opportunity/Affirmative Action Employer.

University of Notre Dame **FACULTY POSITION**, biochemistry/molecular biology. The Department of Chemistry and Biochemistry at the University of Notre Dame invites applications from outstanding candidates for a tenure-track faculty position in the area of biochemistry and/or molecular biology available in the fall of 1999. The appointment is expected at the **ASSISTANT PROFESSOR** level. The research interests of the applicant should be complementary with those of the department. Applicants are expected to have a strong commitment to developing an active research program and to teaching at the undergraduate and graduate level. Postdoctoral experience is highly desirable. Review of applications will begin on October 1, 1998. A complete résumé, a description of research plans, a summary of teaching interests, and three letters of recommendation should be sent to: Dr. A. Graham Lippin, Chairman, Department of Chemistry and Biochemistry, University of Notre Dame, 251 Nieuwland Science Hall, Notre Dame, IN 46556-5670. The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSORS IN NEUROSCIENCE

In connection with the launch of a new neuroscience initiative, the Princeton University Department of Psychology anticipates making two appointments at the Assistant Professor level, to begin in September 1999. One will be in cognitive neuroscience, for applicants with expertise in human brain imaging. The other will be in behavioral neuroscience, for applicants with expertise in mammalian research. Applicants for both positions should have an active program of research and be prepared to teach at both undergraduate and graduate levels. Please send a curriculum vitae, a one-page research description, and three letters of recommendation to: The Neuroscience Search Committee, Department of Psychology, Princeton University, Princeton, NJ 08544-1010. Applicants should submit materials by November 1, 1998. Princeton is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR ID# 8615

The Department of Psychiatry, Psychiatric Institute, University of Illinois at Chicago (UIC) seeks a full-time tenure-track Assistant Professor in the area of behavioral neuroscience with expertise in rat and monkey models for self-administration of drugs of abuse and a research interest in the mechanism of nicotine or anxiolytic benzodiazepines or ethanol tolerance and dependence. The candidate must have NIH funding, M.D. or Ph.D. required. Send curriculum vitae, summary of current and future research plans, names, addresses, telephone and FAX numbers of at least three Senior Investigators as reference to: Professor G. Pandey, c/o Chris Radzom, University of Illinois at Chicago, Department of Psychiatry, 912 South Wood (M/C 913), Chicago, IL 60612. FAX: 312-413-1128. UIC is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

CHAIR DEPARTMENT OF INTERNAL MEDICINE UNIVERSITY OF KANSAS School of Medicine

University of Kansas School of Medicine invites nominations and applications for the position of Chair, Department of Internal Medicine. Current department faculty have a major role in all three missions of the School of Medicine: research, teaching, and clinical service.

We are seeking an individual with proven leadership and personal skill required to direct this important academic department. In addition to being an excellent academician, the new Chair must be able to advance the research, educational, and clinical mission of the department.

Applications and nominations should include a current curriculum vitae and names and addresses of three references. They should be sent to:

Internal Medicine Chair
Search Committee
c/o Office of the Executive Dean
University of Kansas School of Medicine
3901 Rainbow
Kansas City, KS 66160

The search committee will review applications until the position is filled.

Kansas University is an Equal Opportunity and Affirmative Action Employer.

IMMUNOLOGY FACULTY POSITIONS

The Department of Pathology, Immunology, and Laboratory Medicine (website: <http://www.med.ufl.edu/path>) at the University of Florida College of Medicine is seeking two tenure-track faculty members at the rank of **ASSISTANT** and/or **ASSOCIATE PROFESSOR**. The successful candidates will be expected to hold a Ph.D. and/or M.D. degree and maintain independently funded research programs that complement one or more existing research strengths of the Department in the pathogenesis of autoimmunity, immunogenetics, immunodeficiency, or inflammation associated with mineralization and kidney stone formation. Investigators with expertise in areas of immunology related to autoimmune disease, lymphocyte signal transduction, cell-cell interactions and adhesion molecules, immunological tolerance and transplantation, or knockout/transgenic technologies are especially encouraged to apply. Salary will be commensurate with experience. Anticipated start date is January 2, 1999. Applicants should submit a curriculum vitae, one-page statement of research goals, names of three references, and reprints of three relevant publications by November 1, 1998, to:

Saeed Khan, Ph.D., Search Committee Chair
Box 100275, Health Science Center
University of Florida College of Medicine
Gainesville, FL 32610-0275

Equal Opportunity/Affirmative Action Employer.

BIOPHYSICIST

The Laboratory of Integrative and Medical Biophysics, NICHD, NIH, is offering a **TENURE-TRACK POSITION** to develop an independent research program in physical science as applied to biomedical research. Candidate must show evidence of strong mathematical and computational skills and must have received substantial training in physical science. Qualified candidates must have a doctoral degree, a minimum of three years of postdoctoral experience, and should be able to demonstrate research success as evidenced by a strong publication record. Preference will be given to qualified candidates who have experience in the area of biomedical optics. The willingness and demonstrated ability to collaborate with other research scientists also will be a significant factor in the selection process. Applicants must be U.S. citizens or permanent residents. A tenure-track Investigator will be supported for up to six years before tenure is required. Candidates should send a curriculum vitae, two-page statement of research plans, and three letters of recommendation by September 7, 1998, to: Chair, Laboratory of Integrative and Medical Biophysics Search Committee, c/o Erlinda Ortanez, Building 12A, Room 2041, 12 South Drive MSC 5626, Bethesda, MD 20892-5626. NIH is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR EPIDEMIOLOGY HUMAN MOLECULAR GENETICS

The University of New Mexico (UNM) School of Medicine is seeking a Molecular Epidemiologist or Molecular Geneticist to fill a tenure-track position at the rank of Assistant Professor. Funding for this position, including an attractive start-up package, is provided through a Howard Hughes Medical Institute Research Resources Grant.

The successful applicant will develop an independent research program that employs state-of-the-art molecular technologies to elucidate the role of gene-environment interactions in conferring risk within individuals and populations and to identify genes that predispose to disease, particularly cancer. Participation in graduate and medical teaching activities also will be expected.

The University of New Mexico School of Medicine provides a supportive environment for an independent Investigator to build a career in the molecular epidemiology/genetics of human disease. Relevant areas of emphasis include the Epidemiology and Cancer Control Program, Asthma SCOR Program, Center for Population Health, Emerging Viruses Research Center, Center for Molecular and Cellular Diagnostics, and the UNM Center for Genetics in Medicine.

Requirements of the position include an M.D., Ph.D., or equivalent degree, and postdoctoral research experience. Applicants also must be qualified to work in the United States. Demonstrated productivity, as evidenced by peer-reviewed publications, teaching, and extramural research support are highly desirable. For best consideration, applicants should submit the following before September 30, 1998: a curriculum vitae, the names of three references, a concise description of their research program or plan, and their date of availability to: Dr. Cheryl Willman, Principal Investigator, Howard Hughes Medical Institute Program, University of New Mexico School of Medicine Research Office, BMSB, Box 520, Albuquerque, NM 87131-5196.

UNM School of Medicine is an Equal Opportunity/Affirmative Action Employer and Educator.

ASSISTANT/ASSOCIATE PROFESSOR PEDIATRIC PULMONARY/AIRWAY EPITHELIAL CELL BIOLOGY

University of Colorado Health Sciences Center
National Jewish Medical and Research Center

The University of Colorado and National Jewish Medical and Research Center are jointly recruiting an Investigator in the area of airway epithelial cell biology. Candidates may be basic scientists or Physician-Investigators (M.D. or Ph.D. required). Interest in collaboration with Investigators working in areas relevant to cystic fibrosis, asthma, and/or airway growth and development is necessary. Send curricula vitae to either address listed below before December 1, 1998:

Frank J. Accurso, M.D.
The Children's Hospital
1056 East 19th Avenue, B-395
Denver, CO 80218

or

Robert Mason, M.D.
National Jewish Medical and Research Center
1400 Jackson Street
Denver, CO 80206

National Jewish Medical and Research Center is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

RESEARCH ASSISTANT PROFESSOR UNIVERSITY OF PENNSYLVANIA Department of Biochemistry and Biophysics

The Department of Biochemistry and Biophysics at the University of Pennsylvania is searching for a Research Assistant Professor in the area of molecular mechanism of nuclear transport of RNAs and proteins. The appointee will be expected to participate in an intensive team effort of research on the identification of transport receptors for mRNA-binding proteins. Candidates should forward a curriculum vitae, summary of research interests, and arrange for three letters of recommendation to be sent, by September 15, 1998, to: Ms. Ruth Keris, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104-6059. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.



Agricultural Research Service

The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Horticultural Crops Quality Laboratory, in Beltsville, Maryland is seeking a Research Food Technologist/Microbiologist, GS-1382/403-12/13. Salary is commensurate with experience (GS-12: \$47,066-\$61,190 per year, GS-13: \$55,969-\$72,758 per year). *Candidates must be U.S. citizens.* The position conducts high-priority basic and applied food technology and microbiology research on food safety and quality of fresh and fresh-cut fruits and vegetables. In addition to the basic education requirements, applicants must demonstrate (1) knowledge of the principles, techniques, and procedures of food technology and microbiology, (2) ability to design, plan, conduct, and publish research in the area of food technology and microbiology, and (3) skill in the techniques used in the research of microorganisms in food. For information on the research program, contact **Dr. Ken Gross** on (301) 504-6128. This position has specific education and experience requirements, and factors that must be addressed. In order to ensure submission of a complete application and for further description of the duties, applicants must request a copy of the vacancy announcement by calling (301) 504-1484 or by printing it from the internet at <http://www.ars.usda.gov/afm/hrd>. The vacancy announcement number for this position is ARS-S8B-8239. This announcement closes 08/17/98. *USDA/ARS is an Equal Opportunity Provider and Employer.*

NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM DIRECTOR, DIVISION OF INTRAMURAL CLINICAL AND BIOLOGICAL RESEARCH

An outstanding clinician-investigator or researcher to establish an independent research program and oversee intramural clinical and applied research is sought by the National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Institutes of Health (NIH). The position is located in Bethesda, Maryland.

The Director, Division of Intramural Clinical and Biological Research (DICBR) oversees a research program of national and international scope and importance and is a vital member of the senior scientific staff. The DICBR is organized into 4 Laboratories and staffed by approximately 200 employees, fellows, and guest researchers with an annual budget of nearly \$22 million.

The applicant must possess a medical and/or other doctoral-level degree in a biomedical or related field and be involved in the full range of investigations into the basic or clinical sciences related to alcohol issues or a related research area. Salary may range from \$77,798 to \$151,800 per year and additional compensation may be authorized depending on the individual's qualifications.

All applications should include the following: a statement of research interest; a career synopsis; a current curriculum vitae and bibliography; and the name and addresses of five references. A list of the requirements or additional information about the position may be obtained by contacting **Ms. Hanratty** at the address listed below. Applications should be sent and received no later than September 30, 1998, to:

Ms. Kathleen Hanratty
NIH, Bldg. 31, Room 1B58
31 Center Drive MSC 2088
Bethesda, MD 20892-2088
Telephone: (301) 402-2997
FAX: (301) 402-0016

NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disabilities are strongly encouraged. The DICBR/NIAAA is a smoke-free environment.

FACULTY POSITION MOLECULAR CARDIOLOGY PROGRAM

The Molecular Cardiology Program at the University of Chicago invites applications for a tenure-track position at the Assistant or Associate Professor level. The successful candidate has an M.D. and/or Ph.D with research experience in the areas of molecular and cellular biology, developmental biology and/or human and mouse genetics. Applicants should submit a curriculum vitae, summary of research accomplishments, and three letters of recommendation to: **Jeffrey M. Leiden, M.D., Ph.D, Molecular Cardiology Search Committee, The University of Chicago, 5841 S. Maryland, MC 6080, Room B608, Chicago, IL 60637.**



**THE UNIVERSITY
OF CHICAGO**

An Affirmative Action/
Equal Opportunity Employer

GLOBAL OPPORTUNITIES

CHIEF SCIENTIST

The Center for International Forestry Research (CIFOR) is one of 16 international research institutes supported by the Consultative Group on International Agricultural Research (CGIAR). CIFOR endeavours to improve forest conservation and management in tropical developing countries through problem-focused, strategic research. We recognize that there are fundamental links between human well-being and forests, and our research aims to eliminate rural poverty and improve environmental quality by understanding and exploiting these linkages. CIFOR is funded by 29 government and development-assistance agencies and employs 120 staff members, including 37 internationally recruited staff from 22 countries. Our research is undertaken through collaborative arrangements with a global network of research partners working throughout the tropics.

CIFOR seeks an outstanding scientist to provide leadership to the interdisciplinary project teams charged with achieving our research mandate. The Chief Scientist will serve as principal mentor and coach for the teams and will ensure that our research meets international standards of quality and scientific rigour and contributes directly to the achievement of CIFOR's mission and objectives. The Chief Scientist will travel extensively throughout the tropics to accompany scientists to the field, giving special emphasis to CIFOR's ecoregional focus sites in Africa, Asia, and Latin America. The Chief Scientist will also lead the process of setting research priorities and assessing impacts of CIFOR's research.

The successful applicant will have an excellent publication record and will be expected to write strategic syntheses to deliver CIFOR's message to stakeholders and international fora. Fluency in English is essential, and the ability to function in one or more additional languages common in the tropics would be an important advantage. The proven ability to provide scientific leadership in a multicultural setting is of special importance, preferably including field experience in developing countries. Applications from both social and biophysical scientists are encouraged.

The Chief Scientist will be based at CIFOR's head office in Bogor, Indonesia, 50 km south of Jakarta. The successful applicant will be expected to join CIFOR in late 1998 or early 1999.

CIFOR offers an internationally competitive salary, an excellent benefits package, and a stimulating work environment. *We believe that diversity of staff contributes to excellence, and we therefore encourage women and developing country nationals to apply.* Applicants should send a letter of interest and curriculum vitae, plus the names and contact information for three referees, to the address below. The position will remain open until filled but evaluation of applications will begin on 1 September 1998. All applicants will be acknowledged.

To learn more about CIFOR and Bogor, visit our website at <http://www.cgiar.org/cifor>.

Reference: SCI0798, Human Resources Manager, CIFOR, P.O. Box 6596 JKPWB, Jakarta 10065 Indonesia, Fax: +62 251 622100, E-mail: m.paiement@cgnet.com

POSITIONS OPEN

PROFESSIONAL POSITIONS CORNELL UNIVERSITY

The Psychology Department expects to fill two positions for the 1999–2000 academic year. The first position, which may be filled at **ANY RANK**, is in the area of cognition or perception. The individual's expertise should complement our department's strengths in cognition and perception, biopsychology and neuroscience, and social and personality psychology. The individual would be invited to take a leadership role in our developing interdisciplinary Cognitive Sciences program.

The second position, expected to be filled at the **ASSISTANT PROFESSOR** level, can fall into either of two areas: (1) developmental perspective on basic questions in cognition and perception, or (2) cognition of social phenomena, including attitudes and beliefs as well as emotion. Researchers taking any approach in these two areas are encouraged to apply, including those pursuing cross-cultural, evolutionary, or neural approaches. The appointment will begin July 1, 1999. Review of applications will begin October 1, 1998, although later applications will be considered until the position is filled.

Interested applicants should submit a letter of application indicating specific research interests, a curriculum vitae, reprints or preprints of completed research, and three letters of recommendation sent directly from three referees to:

Secretary, Psychology Search Committee
Department of Psychology
284 Uris Hall
Cornell University
Ithaca, NY 14853-7601 USA

Applications from women and minority candidates are especially welcome. Cornell University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR CHEMICAL TOXICOLOGY

Ph.D. in organic medicinal chemistry, toxicology, or a closely related field with a strong emphasis on both chemistry and toxicology is required. The candidates must have postdoctoral experience and publications in peer-reviewed journals, possess excellent communication skills necessary for undergraduate and graduate teaching, and be in a strong position to establish an independent, externally funded research program that will broaden the research expertise of an emerging toxicology group. Preference may be given to candidates with existing or approved grant funding. This is a tenure-track academic year position beginning in January 1999. Application review will start in August 1998 and continue until the position is filled. Send curriculum vitae, names of three references, copies of selected publications, and a statement of research plans to: **Dr. Z. A. Shaikh, Search Committee Chair, Log # 161087, University of Rhode Island, P.O. Box G, Kingston, RI 02881.** *The University is an Affirmative Action/Equal Opportunity Employer.*

Protein crystallography, Harvard Institutes of Medicine. Funded research position is available immediately at the **ASSISTANT PROFESSOR** level to work with a newly established Macromolecular Crystallography Unit, at the Harvard Institutes of Medicine. The Unit is equipped with state-of-the-art data collection and molecular modeling facilities. Ongoing projects include the structural analysis of signal transduction proteins, transcription factors, and HIV-1-related proteins. Experience in protein crystallization and X-ray crystallography is required.

Send curriculum vitae and three reference letters to: **Dr. Jerome E. Groopman, Division of Experimental Medicine, Beth Israel Deaconess Medical Center, Harvard Institutes of Medicine, 3rd Floor, 4 Blackfan Circle, Boston, MA 02115. FAX: 617-975-5244.**

Receptor Biology Inc., a young dynamic firm that develops and sells targets for high-throughput screening, seeks a **RESEARCH SCIENTIST** to help develop new screening technologies for G protein-coupled receptors. The successful candidate will have a Ph.D. and zero to five years of experience with the molecular biology and pharmacology of GPCRs, second messenger systems (especially intracellular calcium), and fluorescence-based screening techniques. Receptor Biology offers a rewarding work environment, competitive salary, and excellent benefits. Send résumé to: **Receptor Biology Inc., 10,000 Virginia Manor Road, Suite 360, Beltsville, MD 20705, Attn: Staffing.**

POSITIONS OPEN

Faculty position in remote sensing oceanography. The University of Southern Mississippi (USM) Institute of Marine Sciences invites applications for a full-time, tenure-track faculty position in remote sensing oceanography in the Department of Marine Science. The appointment will be made at either the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, depending on qualifications. The successful applicant should hold a Ph.D. in oceanography, marine science, or a closely related field, and have a strong research interest in using airborne or satellite remote sensing of the ocean in his/her studies. Applicants with interests in ocean color applications (SeaWiFS, hyperspectral sensors) are particularly encouraged to apply. The appointee is expected to maintain a strong, externally funded research program; to supervise graduate students; and to develop and teach courses at the graduate level. It is anticipated that the successful applicant will take a leadership role in the continuing development of a comprehensive remote sensing program in the Department of Marine Science.

The USM Department of Marine Science is a multidisciplinary academic unit (M.S. and Ph.D.) with research and teaching programs in biological, chemical, geological, and physical oceanography. The Department of Marine Science is located at NASA's John C. Stennis Space Center on the Mississippi-Louisiana border. Besides NASA research activities, the Stennis Space Center is also the home of the NASA Commercial Remote Sensing Program, the U.S. Naval Oceanographic Office, NOAA's National Data Buoy Center, the Naval Research Laboratory-SSC, and the Maury Oceanographic Library. NASA Goddard has designated NRL-SSC as the Gulf of Mexico Region Receive Site for SeaWiFS data. Ample opportunities are available for research collaboration with oceanographers at these federal agencies. More information about our program is available on the Internet at **website: <http://www.marine.usm.edu>.**

Review of applications will begin October 1, 1998, and continue until the position is filled. This position could be filled as early as January 4, 1999. Qualified applicants should mail a complete curriculum vitae, a statement of teaching and research interests, and names of four references to: **Search Committee Chair, Department of Marine Science, Institute of Marine Sciences, The University of Southern Mississippi, Building 1103 Room 102, Stennis Space Center, MS 39529. E-mail: marine@ssc.usm.edu.** *Affirmative Action/Equal Opportunity Employer/ADA Institute.*

RICHARD AND JEAN IVEY RESEARCH CHAIR IN MOLECULAR TOXICOLOGY University of Western Ontario

The Richard and Jean Ivey Fund has established an Endowed Research Chair in molecular toxicology in the Faculty of Medicine and Dentistry at the University of Western Ontario (UWO). The successful candidate will hold a tenured position within the Department of Pharmacology and Toxicology and will function as a senior member of the Drug and Environmental Safety Research Program, composed of members from multiple faculties at UWO, the London Teaching Hospitals, and their affiliated Research Institutes.

Applicants must have a Ph.D. and/or M.D. degree or equivalent, an established record of independent research and peer-reviewed funding, and a very strong publication record. Preference will be given to candidates investigating the molecular mechanisms by which drugs and/or environmental contaminants exert their toxicity. In addition to maintaining an excellent externally funded research program the successful candidate will contribute to the academic activities of the Department of Pharmacology and Toxicology, the Drug and Environmental Safety Research Program, and the Faculty of Medicine and Dentistry.

Applications should be received by October 1, 1998, when the Search Committee will begin its deliberations. Complete applications will contain a curriculum vitae, at least three letters of reference, and a description of research accomplishments and future research plans. Send applications and confidential letters of reference to: **Jack Bend, Ph.D., Professor and Chair, Department of Pharmacology and Toxicology, Room M275, Medical Sciences Building, Elgin Road, University of Western Ontario, London, Ontario N6A 5C1 Canada.**

The University of Western Ontario is committed to Employment Equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disability.

POSITIONS OPEN

STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

Several positions are available for **TENURE-TRACK** faculty appointments, **OPEN RANK**, in the general areas of organic chemistry or inorganic chemistry.

Completed applications must be received by October 15, 1998. Appointment will commence on or after September 1, 1999.

Applicants must be strongly motivated toward creative research and committed to teaching at the undergraduate and graduate levels.

All applications must include the following materials: a current curriculum vitae and list of publications; a brief statement of research interests (three pages or less); and arrange to have three letters of reference sent on your behalf to the Chair of the appropriate search committee (see below).

Applications in the general area of organic chemistry should be addressed as follows:

**Chair, 1998–99 Organic Chemistry
Search Committee
Department of Chemistry
Stanford University
Stanford, CA 94305-5080**

Applications in the general area of inorganic chemistry should be addressed as follows:

**Chair, 1998–99 Inorganic Chemistry
Search Committee
Department of Chemistry
Stanford University
Stanford, CA 94305-5080**

Stanford University is committed to Equal Employment Opportunity through Affirmative Action and is eager to identify minority persons and women with appropriate qualifications.

THE UNIVERSITY OF MEMPHIS INSTITUTE FOR INTELLIGENT SYSTEMS

Applications are invited for a tenure-track faculty position in the Institute for Intelligent Systems at the **ASSOCIATE PROFESSOR** rank.

Applicants should have a strong and ongoing record of significant interdisciplinary research and be committed to excellence in teaching at all levels. Successful candidates should have a Ph.D. in a field closely related to the mission of the Institute (**website: <http://www.psyc.memphis.edu/iis/iis.htm>**), and to provide instruction in a number of broad, interdisciplinary areas.

Applicants are welcome from artificial intelligence, cognitive science, neural networks, or, more generally, complex dynamical systems; researchers active in interdisciplinary ways in robotics, vision, adaptive sensory-motor control, and behavioral neurobiology are particularly sought.

The selection process will begin October 15, 1998, and will continue until this position is filled.

A complete current curriculum vitae and at least three letters of recommendation should be directed to: **Vice Provost for Research and Dean of the Graduate School, 308 Administration Building, Campus Box 526639, The University of Memphis, Memphis, TN 38152, Attn: P. Heliste.**

An Equal Opportunity/Affirmative Action University. Women and minorities are strongly urged to apply. Successful candidates must meet guidelines of the Immigration and Reform Control Act.

FACULTY POSITION GENOMICS/HUMAN GENETICS Fred Hutchinson Cancer Research Center

The Division of Molecular Medicine and Cancer Biology of the Fred Hutchinson Cancer Research Center is soliciting applications to fill an open faculty position at the **JUNIOR FACULTY** level. Applicants with outstanding accomplishments in genomics or human genetics will be considered. Candidates should send a curriculum vitae, a concise statement of his/her research plans, and three letters of reference to:

**Molecular Medicine and Cancer Biology
Faculty Search Committee
Fred Hutchinson Cancer Research Center
Division of Basic Sciences
Mailstop: A2M-015
1100 Fairview Avenue North
P.O. Box 19024
Seattle, WA 98109-1024**

Application deadline: October 15, 1998.

FHCRC is an Equal Opportunity Employer committed to work force diversity and provides a smoke-free environment. We strongly encourage applications from women and minority groups.

GROUP LEADER

Mechanisms of Apoptosis

The Molecular Virology and Carcinogenesis Laboratory, ABL-Basic Research Program, NCI-Frederick Cancer Research and Development Center (NCI-FCRDC), invites applications for a tenure-track position in the Mechanisms of Apoptosis group. The applicant should have the potential to develop an independent basic research program in molecular and cellular biology with emphasis on the regulation and execution of apoptosis during tumor development. Candidates with confirmed expertise in these areas are encouraged to apply. The position is available for a Ph.D. or M.D.-Ph.D. who has at least two years of relevant postdoctoral experience. Salary will be commensurate with education and experience. Visit our website at: <http://nmrweb.ncifcrf.gov/abl>.

The ABL-Basic Research Program, NCI-FCRDC is located in Frederick, MD, a suburban community at the foot of the scenic Catoctin Mountains, 45 miles north of Washington, D.C. and west of Baltimore, MD. The ABL-BRP offers a full complement of benefits, including medical, dental, and life insurance, a matched 401k, competitive salary, and an excellent work environment. For full consideration, please send a CV, a one- to two-page statement of research interests and goals, and three letters of recommendation to:

Dr. Karen Vousden
c/o Human Resources Dept.
ABL-Basic Research Program/KV
P.O. Box B, Bldg. 42
Frederick, MD 21702-1201



*An Equal Opportunity/Affirmative
Action Employer.*

SCIENTIFIC DIRECTOR

NATIONAL INSTITUTE OF ARTHRITIS AND MUSCULOSKELETAL AND SKIN DISEASES

THE POSITION: Scientific Director of the Intramural Research Program, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS). The NIAMS Intramural Research Program conducts clinical and laboratory research related to arthritis, musculoskeletal and skin diseases and also conducts basic research in biochemistry, immunology, pathology, histochemistry, chemistry, molecular biology, structural biology, and pharmacology. The Scientific Director serves as the principal advisor to the Director of the NIAMS concerning all ongoing and projected intramural research programs of the NIAMS and is fully responsible for the development of broad decisions concerning program planning, budget and policy formulation, and research allocation of the intramural program. The Scientific Director represents the NIAMS in discussions of NIH-wide intramural policies and programs, and serves as a vital member of the senior staff of the Institute. In addition to the managerial/administrative responsibilities outlined above, the Scientific Director will carry out her/his own research program. Resources commensurate with the proposed program will be provided.

THE CHALLENGE: To provide strong and effective leadership in the overall scientific management of an innovative basic and clinical research program in the field of arthritis and musculoskeletal and skin disease with a budget of \$23 million and a staff of 180. The NIAMS is currently pursuing cutting-edge research on a broad spectrum of investigations, from fundamental analyses of protein structure and function by physical, genetic, and biochemical means to research on the etiology, pathogenesis, and treatment of selected rheumatologic and skin diseases.

THE IDEAL CANDIDATE: Will have demonstrated scientific leadership and research experience in both a basic and clinical research program of national and international standing in an area relevant to arthritis, musculoskeletal and skin diseases. Applicants must have a M.D. and/or Ph.D. degree.

SALARY: The Scientific Director will be appointed in the Senior Biomedical Research Service (salary up to \$151,800) or, if medically qualified, as a Title 38 employee with a salary depending on the candidate's experience.

HOW TO APPLY: An application accompanied by a current curriculum vitae and bibliography should be submitted to: Dr. Allen M. Spiegel, Chair, Search Committee, c/o The National Institute of Arthritis and Musculoskeletal and Skin Diseases, Attn: NIAMS Personnel Office, Building 31, Room 4C13, 31 Center Drive MSC 2350, Bethesda, MD 20892-2350. For further information please call Ms. Kathleen Phelan at (301) 496-0436 or visit our website at www.nih.gov/niams/.

NIH is an Equal Opportunity Employer

**APPLICATIONS SHOULD BE POSTMARKED BY AUGUST 31, 1998, AND RECEIVED BY
CLOSE OF BUSINESS SEPTEMBER 4, 1998.**

ASSISTANT/ASSOCIATE PROFESSOR NATURAL PRODUCTS CHEMISTRY/BIOLOGY

The Department of Medicinal Chemistry and Molecular Pharmacology invites outstanding young scientists with interest in the general area of natural products science to apply for a tenure-track faculty position. This research area is broadly defined by experimental approaches at the chemistry/biology interface that impact chemical-drug discovery including bioorganic chemistry, molecular biotechnology, and combinatorial biosynthesis. A successful candidate is expected to establish a strong research program with extramural funding. Commitment to excellence in teaching at the undergraduate and graduate levels will be required. The department offers a vigorous research environment with first-rate analytical instrumentation; numerous opportunities exist to participate in interdepartmental programs such as the Purdue Cancer Center and related graduate programs. Candidates must hold a Ph.D. in a molecular science and are expected to have at least two years of postdoctoral training. *Minority and women scientists are especially encouraged to apply.* Applicants should submit a curriculum vitae, a detailed description of research plans, and names and addresses of three references to: Professor V. Jo Davison; Chair, Faculty Search Committee; Department of Medicinal Chemistry and Molecular Pharmacology; 1333 Robert Heine Pharmacy Building; Purdue University; West Lafayette, IN 47907-1333. Review of the candidates will begin on October 1, 1998, and continue until the position is filled. *Purdue University is an Equal Opportunity/Equal Access Employer.*

FACULTY POSITION DEPARTMENT OF HUMAN GENETICS and DEPARTMENT OF SURGERY THE UNIVERSITY OF CHICAGO

The Department of Human Genetics and the Department of Surgery at the University of Chicago are jointly recruiting a faculty member with expertise in molecular oncology to lead our state-of-the-art laboratory. The ideal candidate is an investigator with the ability to develop an independently funded research program in molecular genetics of gastrointestinal cancers and to take advantage of the extensive collaborative interactions available with members of the University genetics and molecular biology community. The University of Chicago and its Medical Center are Affirmative Action/Equal Opportunity Employers and applications from women and members of minority groups are encouraged. Send a Curriculum Vitae, letter of intent and names of three references to: Fabrizio Michelassi, M.D. Chair, Search Committee, The University of Chicago, 5841 S. Maryland Ave., MC5094, Chicago, IL 60637.



**THE UNIVERSITY
OF CHICAGO**

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ENVIRONMENTAL ADVISORS

The U.S. Agency for International Development (USAID) seeks to fill through Personal Services Contracts its Central and South America Regional Environmental Advisor positions based in Guatemala City and Quito respectively. Substantial travel in the regions to USAID-assisted countries is required to advise governments and local USAID offices on environmental impacts of development activities, and to assist in the design and monitoring of environment and natural resource management programs and policies. Minimum qualifications include: (1) an advanced degree or equivalent experience in an environmental discipline, e.g., ecology, environmental planning, natural resource economics, forestry, urban and industrial pollution prevention, etc.; (2) experience with the design and implementation of environmental impact assessments; (3) experience working in developing countries on sustainable natural resource management issues, preferably in Latin America; (4) a proven track record of working effectively with public sector agencies and with non-governmental organizations (NGOs); (5) strong interpersonal skills; (6) English and Spanish fluency; (7) very strong English writing skills; and (8) *U.S. citizenship*. For the South America position, send SF-171 or AID 1420-17 biographical data sheet, and résumé to Allen Eisenberg, USAID/Lima, UNIT 3760, APO AA 34031; for the Central America position, send the above materials to Margaret Dula, USAID/Guatemala, APO AA 34024. To be considered, applications must be received no later than September 15, 1998. *USAID is an Equal Opportunity Employer.*

POSITIONS OPEN

SENIOR EDITOR

A Senior Editorial position for a Ph.D. scientist with broad interest and expertise in biomedical research is available at *Nature Medicine*. The ideal candidate should have postdoctoral research experience and publications in peer-reviewed journals, combined with excellent written and oral communications skills. Previous editorial experience is desirable.

The position offers an exciting and challenging opportunity to oversee a small editorial group selecting and preparing for publication the research articles published in *Nature Medicine*. The successful applicant will also contribute to other sections of the journal and assist the Editor with the management and long-term development of the title.

Please submit a curriculum vitae, a concise cover letter explaining your interest in the post, and a 500-word *News and Views*-style article on an exciting, newsworthy, and recent development in the field of biomedical research, to:

The Editor
Nature Medicine
345 Park Avenue South, 10th Floor
New York, NY 10010-1707
FAX: 212-683-5751
E-mail: medicine@natureny.com

To arrive no later than 1 September 1998. Informal inquiries only can be made by e-mail: medicine@natureny.com.

ASSISTANT PROFESSOR SCIENCE EDUCATION/PHYSICAL SCIENCE

Tenure-track position to begin January or September 1999. Responsibilities: assume responsibility for the secondary science education program at Keene State College, which includes teaching secondary science methods (physical and life sciences) and supervising student teachers; approximately one half of teaching load is in one or more of the physical sciences.

Qualifications: Doctorate in science education or one of the science disciplines required (physical science preferred). Demonstrated interest and commitment to science education. U.S. secondary school experience preferred. Interdisciplinary science experience desirable. Doctorate must be completed by January or September 1999. Minimum salary for Assistant Professor is \$36,500. Send letter of application, curriculum vitae, description of teaching experience, statement of teaching philosophy/methods, and three letters of reference (with evaluation of candidate's teaching experience) to: Science Education Search Committee, Office of Human Resource Management, Keene State College, 229 Main Street, Keene, NH 03435-1604. Review of applications to begin October 15, 1998, and continue until position filled.

Keene State College is an Affirmative Action/Equal Employment Opportunity Employer and actively seeks women and minority candidates.

ASSISTANT PROFESSORSHIPS IN INORGANIC, ORGANIC, AND PHYSICAL CHEMISTRY

Harvard University
Department of Chemistry and Chemical Biology

Applicants are invited to apply for Assistant Professorships in inorganic, organic, and physical chemistry. Applicants should arrange to have three letters of recommendation sent independently and should provide a curriculum vitae, a list of publications, and outlines of two future research projects. Applications and supporting materials should be sent to: Professor James Anderson, Chairman, Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902. *Harvard University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minority group members.*

POSTDOCTORAL POSITION available immediately in biophysics to study the mechanism of electron transfer and redox-linked proton pumping in mitochondrial and bacterial respiration. Ph.D. in chemistry or biochemistry is required. Experience in protein biochemistry and laser spectroscopy and/or photochemistry is desirable. Send a curriculum vitae and three letters of recommendation by September 1, 1998, to: Dr. Olaf Einarsdóttir, Department of Chemistry and Biochemistry, University of California, Santa Cruz, CA 95064. E-mail: olof@hydrogen.ucsc.edu. *Affirmative Action/Equal Employment Opportunity Employer.*

POSITIONS OPEN



AGRICULTURAL ENGINEER GS-11/12/13/14. U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS) is seeking candidates for a permanent full-time position to conduct basic and applied research related to the quality of deciduous tree fruit crops with emphasis on apples and cherries during growth and maturation and various postharvest stages. The position requires professional research experience and/or directly related education with proven ability to plan, conduct, and report independent research in the specialty area. Applicants must have professional knowledge of engineering principles and technology related to physics, computers, electronics, and optics as well as knowledge of fruit physiology. Salary commensurate with experience (\$38,593 to \$84,495). Negotiable hiring incentives are possible. *U.S. citizenship required.* For information about the research program, contact: Dr. George Hosfield, Telephone: 517-355-0110. For full-text vacancy announcement, which includes application information, call the ARS Dial-A-Vacancy service, Telephone: 301-504-1482 (identify announcement No. ARS-S8N-8227), or access ARS Employment Opportunities on website: <http://www.ars.usda.gov>. Complete applications must be postmarked by August 28, 1998. Incomplete applications will not receive consideration. *USDA/ARS is an Equal Opportunity Employer.*

WILDLIFE ECOLOGIST

The Illinois Natural History Survey invites applications for a Wildlife Ecologist, at the rank of ASSISTANT or ASSOCIATE PROFESSIONAL SCIENTIST. A Ph.D. in wildlife ecology, zoology, or a related field by the starting date is required. The applicant should have experience and interest in field-oriented research on birds or mammals in agroecosystems or grasslands on such topics as wildlife ecotoxicology or habitat fragmentation/landscape ecology. The successful applicant will be expected to develop and maintain a vigorous externally funded research program, and maintain a record of frequent publication in peer-reviewed scientific journals. Opportunities for academic affiliation with the University of Illinois at Urbana-Champaign are possible. To ensure full consideration, submit cover letter, curriculum vitae, statement of research interests, reprints of three representative publications, and arrange for three letters of recommendation to be sent by 15 September 1998 to: Ms. Jacqueline Sanders, Human Resources Manager, Wildlife Ecologist Position, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Telephone: 217-244-7790. *The Illinois Natural History Survey is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available starting October 1, 1998, for an NIH-funded program project on calculation of static and dynamic electrical properties of proteins. Previous experience in molecular modeling, electrostatic calculations, molecular dynamics on proteins is required. Please send a curriculum vitae and three references to: Dr. Kim Sharp, Department of Biochemistry and Biophysics, School of Medicine, University of Pennsylvania, Philadelphia, PA 19104-6059. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE

A position is available for studies on eicosanoid biosynthesis enzymes. Training in biochemistry and/or molecular biology required; experience with recombinant protein expression and characterization helpful. Applicants should send curriculum vitae and names of three references to: Dr. Richard Kulmacz, Hematology Division, Internal Medicine, University of Texas-Houston Health Science Center, 6431 Fannin Street, Houston, TX 77030. *Equal Opportunity Employer.*

An immediate opening for a RESEARCH ASSISTANT exists in our biomedical research laboratory for a highly motivated individual with a strong working knowledge in mass spectrometry and analytical chemistry techniques. The selected candidate will be responsible for the maintenance and running of the mass spectrometers. Applicants should have a B.S. or M.S. in chemistry, biochemistry, or a related field. Prior experience with mass spectrometers (especially GC-C-IRMS and GC-MS) is highly desirable. Contact: Brenda Sager, Telephone: 904-390-3525; e-mail: bsager@nemours.org.

POSITIONS OPEN

CURATOR OF ICHTHYOLOGY

The Academy of Natural Sciences of Philadelphia seeks an outstanding systematic Ichthyologist for a position at the ASSISTANT or ASSOCIATE CURATOR level. The Academy of Natural Sciences is an internationally recognized scientific research institution with an ichthyological collection of over 176,000 lots. Collection strengths are in freshwater Neotropical and marine Caribbean fishes. Our facilities include a fully functional molecular systematics laboratory, X-ray and darkroom facility, and histology laboratory. Requirements: (1) Ph.D. in biology or related discipline; (2) demonstrated research skills in systematics or evolutionary biology of fishes, preferably with a research emphasis on Neotropical freshwater fishes; (3) ability to establish and maintain an independent research program; (4) willingness to share curatorial responsibilities for ichthyology collections; (5) ability to attract funding to support research and collections; (6) willingness to participate in public education and museum programs. This position includes opportunities for adjunct appointment and graduate students at Drexel University and other nearby institutions.

Send curriculum vitae, letter summarizing research interests, reprints, and names and addresses of three references no later than September 4, 1998, to:

Director, Human Resources
The Academy of Natural Sciences
1900 Benjamin Franklin Parkway
Philadelphia, PA 19103-1195

No telephone calls.

Affirmative Action/Equal Opportunity Employer.

TERRESTRIAL ANIMAL ECOLOGIST SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER Edgewater, Maryland USA

The Smithsonian Environmental Research Center (SERC), an international ecological research and education center, seeks a Terrestrial Animal Ecologist for a career-track position. Located on 2,600 acres in Edgewater, Maryland, on the western shore of the Chesapeake Bay, SERC pursues fundamental research on global change, ecology of coastal ecosystems, landscape ecology, and population and community ecology. Research expertise on terrestrial vertebrates and/or invertebrates will be considered equally. The successful candidate will be expected to center a major portion of their research in the Chesapeake Bay region. Comparative studies of other landscapes are also encouraged. The candidate will also be expected to develop an externally supported research program. Integration of research with other staff members is sought to assist in broader ecological interpretation of interconnected ecosystems. A more detailed description of the position and SERC's programs can be obtained at website: <http://www.serc.si.edu>. Letters of inquiry, curricula vitae including names of referees, and a statement of personal research interests should be postmarked by 30 September 1998. For an application package Telephone: 202-287-3102, press 9, and request Vacancy Announcement No. 98MA-1182. *Equal Employment Opportunity.*

STAFF ASSOCIATES

Three positions in the Immunogenetics Division are available for candidates with interest/experience in cellular and molecular immunology. Duties and requirements for each position are as follows: (1) flow cytometry analysis of lymphocyte differentiation antigens; (2) molecular immunology of HLA and lymphokines; (3) propagation and cloning of antigen-specific T cell lines. M.D., Ph.D., or M.S. with four years of experience. Send curriculum vitae and names of three references to: Dr. Nicole Suciu-Foca, College of Physicians and Surgeons of Columbia University, Department of Pathology, P&S 14-401, 630 West 168th Street, New York, NY 10032. *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available in molecular neurobiology of neurodegenerative diseases, including Alzheimer's disease, in established multidisciplinary laboratory. A strong background is desired in biochemistry and molecular biology to explore the molecular basis of these diseases. Submit curriculum vitae and three references to: Carol A. Miller, M.D., University of Southern California School of Medicine, Department of Pathology, MCA-345, 2011 Zonal Avenue, Los Angeles, CA 90033. FAX: 323-442-1808; e-mail: carolmil@hsc.usc.edu.

**University of Minnesota Cancer Center
and Department of Medicine
Translational Physician/Scientist in Breast
Cancer Biology and Therapy**

The University of Minnesota Cancer Center and the Department of Medicine seek an M.D. or M.D./Ph.D. to lead or participate in an interdisciplinary team focused on the development of innovative therapy for breast cancer. Applicants should be Board-eligible or certified in medical oncology or other relevant disciplines and have a demonstrated interest in the clinical care of breast cancer. In addition, applicants should direct laboratory or clinically based research projects addressing the biology, natural history, etiology, or innovative treatment of breast cancer and relevant to the development of new therapy for breast cancer. The applicant's research projects should be federally funded, or show promise of such funding. The successful candidate will have an Assistant or Associate Professor appointment in the University of Minnesota Cancer Center and a tenured or a tenure-track faculty appointment in the Department of Medicine commensurate with level of achievement. *Junior faculty and senior trainees are encouraged to apply.*

Interested individuals should reply with a curriculum vitae, a brief research statement, and names of three references to: **Philip McGlave, M.D., Chair, Translational Physician/Scientist in Breast Cancer Biology and Therapy Search Committee, Attention: Jackie Sterling, University of Minnesota Cancer Center, Box 806 Mayo, 420 Delaware St. S.E., Minneapolis, MN 55455-0392 USA.**

Applications accepted until October 30, 1998, or until position is filled.

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

**Max-Born-Institut für Nichtlineare Optik und
Kurzeitspektroskopie im Forschungsverbund Berlin e. V.**

Das Max-Born-Institut für Nichtlineare Optik und Kurzeitspektroskopie (MBI) ist angesiedelt am Wissenschafts- und Wirtschaftsstandort Berlin-Adlershof. Es ist Mitglied der Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz und wird vom Land Berlin und vom Bund finanziert und als "Large Scale Laser Facility" von der EU gefördert. Mit ca. 200 Beschäftigten betreibt es Grundlagenforschung an und mit Lasern für ultrakurze Impulse und verfolgt potentielle Anwendungen. Durch Laserapplikationslabors stellt es seine apparative Ausstattung und Erfahrung auch externen Nutzern zur Verfügung. Wir suchen zum frühestmöglichen Zeitpunkt eine/n

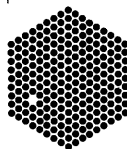
Abteilungsleiter/in

für die Abteilung C1 "Nichtlineare Optik und kohärente Spektroskopie." Arbeitsschwerpunkte der aus ca. 15 wissenschaftlichen und technischen Mitarbeitern bestehenden Abteilung sind Ultrakurzeitspektroskopie an kondensierten molekularen Systemen (Flüssigkeiten, molekulare Schichten, Farbstoffe), Raman-Spektroskopie und Theorie elementarer Anregungen in Molekülen. Die in der Regel habilitierten Bewerber sollten in der Ultrakurzeitspektroskopie an Molekülen international ausgewiesen sein und selbständig wissenschaftlich auf einem der folgenden Gebiete gearbeitet haben: Ultrakurzeitspektroskopie, Molekülphysik, Photochemie. Die Tätigkeit erfordert Erfahrung in der Betreuung von Diplomanden und Doktoranden und in der Einwerbung von Drittmitteln.

Die Vergütung erfolgt nach Vergütungsgruppe BAT/BAT-O Ia. Zur Erhöhung des Frauenanteils in der Forschung werden entsprechend qualifizierte Wissenschaftlerinnen ausdrücklich aufgefordert, sich zu bewerben. Schwerbehinderte werden bei gleicher Eignung bevorzugt.

Bewerbungen mit Lebenslauf, Darstellung des beruflichen und wissenschaftlichen Werdegangs, Zeugnissen und Referenzen richten Sie bitte bis zum **20 September 1998** an den

Direktor des Bereichs C, Herrn Prof. Dr. T. Elsässer, Max-Born-Institut, Postfach 1107, 12474 Berlin



EMBL

Hamburg Outstation

Member States of EMBL (Austria, Belgium, Denmark, Finland, France, Germany, Greece, Israel, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom) are advised that applications are being sought for the following position **at the Hamburg Outstation:**

STAFF SCIENTIST (ref. 98/48)

ABSORPTION X-RAY SPECTROSCOPY

The EMBL Hamburg Outstation carries out research in structural biology, making use of the special properties of synchrotron radiation. It operates seven beam lines at the DORIS storage ring that are fully available to the International user community and in-house research activities. The current post is in the unit for X-ray absorption spectroscopy (EXAFS).

It is expected that the successful candidate will

- carry out independent research projects in molecular structural biology, in particular taking advantage of the EXAFS facilities. Project proposals on structural studies of metallo proteins making complimentary use of techniques available at the Hamburg Outstation, in particular EXAFS and X-ray crystallography, are encouraged. Projects can be in collaboration with other research groups from EMBL and from the external user community;

- participate in the external user support of the EXAFS beam line and be involved in further development of this beam line.

Applicants should have a PhD, sufficient postdoctoral training, significant research accomplishments and extensive expertise in spectroscopic methods with synchrotron radiation.

An initial contract of 3 years' duration will be offered to the successful candidate. This can be renewed, depending on circumstances at the time of the review.

Commencing date: January 1999

Closing date: 30.09.1998

Further information can be obtained from Dr. Matthias Wilmanns, fax: ++49 40 89902 149; email: wilmanns@embl-hamburg.de; www: <http://www.embl-hamburg.de>.

EMBL is an inclusive, equal opportunity organisation.

Applicants should submit a curriculum vitae, including a description of current and planned research activities, and names and addresses of three referees, quoting ref. no. 98/48 to:

The Head of Human Resources, EMBL, Postfach 10.2209, D-69012 Heidelberg. Fax: +49 6221 387555; Tel: +49 6221 387208; email: jobs@EMBL-Heidelberg.de

POSITIONS OPEN

MEDIA RELATIONS/SCIENCE WRITER. The University of Pittsburgh Medical Center (UPMC) Health System News Bureau is seeking a Science Writer/Media Relations Specialist to fill an immediate opening. Duties: primary responsibility for handling the routine media needs of the University of Pittsburgh's Graduate School of Public Health and the UPMC Health System's programs in AIDS and other selected research areas. Assist Associate Director in covering research activities related to the University's School of Medicine and the University of Pittsburgh Cancer Institute. Tasks include generating press releases and other materials on research findings, faculty appointments, grant announcements, meetings, and community initiatives. Qualifications: undergraduate degree in English, journalism, communications, or related field required. Undergraduate/graduate course work in biology, epidemiology, chemistry, and other medically related sciences strongly preferred. A minimum of two years of experience working with print/media or in a public relations setting. Experience in an academic or medical setting preferred. Must possess top-notch writing ability to translate medical/scientific information into engaging, clear prose. Must also exhibit proven news judgment, as well as the ability to work under pressure, maintain a flexible schedule, and handle multiple projects with tight deadlines. The UPMC Health System is an international leader in biomedical research. Applicants are encouraged to visit the UPMC Health System's website: <http://www.upmc.edu> for more information. The UPMC Health System offers a competitive salary and benefits package. Qualified applicants should mail résumés to: **University of Pittsburgh Medical Center Health System, Attn: LO, News Bureau, 3811 O'Hara Street, Pittsburgh, PA 15213.** *Equal Opportunity Employer.*

ADVANCED RESEARCH TECHNICIAN

Head Research Technician needed to work collaboratively with Principal Investigator and Postdoctoral Associate in an exciting area of cancer research. Specific projects pursue the genetic and biochemical basis of programmed cell death in mammals. Although principal role will be experimental, position will also have supervisory responsibility for coordinating laboratory functions. Position requires a B.S./M.S. degree with at least three years of experience.

If you are interested in pursuing this opportunity, please forward your résumé in confidence to: **Dana-Farber Cancer Institute, Attention: Dr. Stanley J. Korsmeyer, c/o Human Resources, 44 Binney Street, Boston, MA 02115.** FAX: 617-632-4421; e-mail: skorsmey@imgate.wustl.edu.

Please visit us on the World Wide Web at website: www.dfci.harvard.edu.

We are an 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: mc Carroll@utmb.edu. *Equal Opportunity/Affirmative Action Employer/Minorities/Females/Disabled/Veterans. UTMB hires only employees authorized to work in the United States.*

POSTDOCTORAL POSITION available to study synaptic mechanisms and participate in the cloning of new components of the exocytotic apparatus. Knowledge of advanced genetic techniques in *Drosophila*, competency in molecular biology, and a solid background in either the cell biology of membrane trafficking or electrophysiology desired. Please submit curriculum vitae and three references to: **Dr. Thomas Schwarz, Stanford University, Molecular and Cellular Physiology, Beckman Center B111A, Stanford, CA 94305-5345.**

POSTDOCTORAL POSITION available immediately to study signal transduction and gene expression related to pathogenesis of atherosclerosis. Candidates must have demonstrated expertise in one of the following areas: molecular biology, protein biochemistry, and signal transduction. Send curriculum vitae, and three references to: **Dr. Xilin Chen, Division of Cardiology, Emory University School of Medicine, 1639 Pierce Drive, Atlanta, GA 30322.** FAX: 404-727-3330; e-mail: xchen01@emory.edu.

POSITIONS OPEN



The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Fruit Laboratory, in Beltsville, Maryland is seeking a **RESEARCH HORTICULTURIST**, GS-437-11/12. Salary is commensurate with experience (GS-11: \$39,270 to \$51,049 per year, GS-12: \$47,066 to \$61,190 per year). *Candidates must be U.S. citizens.* The position conducts high-priority basic and applied horticultural research on sustainable cultural systems applicable to small fruit production. For information on the research program, contact: **Dr. Richard Zimmerman, Telephone: 301-504-6647.** This position has specific education and experience requirements, and factors that must be addressed. In order to ensure submission of a complete application, applicants must request a copy of the vacancy announcement by **Telephone: 301-504-1484** or by printing it from the Internet at website: <http://www.ars.usda.gov>. The vacancy announcement number for this position is ARS-S8B-8250. This announcement closes August 31, 1998. *USDA/ARS is an Equal Opportunity Provider and Employer.*

PREDOCTORAL AND POSTDOCTORAL POSITIONS UNIVERSITY OF MINNESOTA Department of Pharmacology

The Department of Pharmacology, University of Minnesota Medical School, has Predoctoral and Postdoctoral openings in several fields. Our faculty members are well-funded and direct strong interdisciplinary research programs.

Areas of emphasis include molecular biology, biochemistry, immunology, and neurobiology-neurochemistry; molecular cloning of receptors and signal transduction; regulation of gene expression (also use of transgenic and gene targeting technology); intracellular electrophysiology, ion channels; biochemical/molecular pharmacology; cancer chemotherapy, immunopharmacology, drug metabolism, enzymology, and antiviral drugs.

Interested applicants for Predoctoral positions should write to the Director of Graduate Studies for more information. Postdoctoral applicants should send a curriculum vitae, statement of research interests, and names of three references to: **Dr. Horace H. Loh, Professor and Head.** The address for both predoctoral and postdoctoral applicants is: **Department of Pharmacology, University of Minnesota, 3-249 Millard Hall, 435 Delaware Street S.E., Minneapolis, MN 55455.**

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

POSTDOCTORAL RESEARCH FELLOWSHIPS

Two Postdoctoral Research Fellowships are available in the Laboratory for Membrane Transport at Harvard Medical School. One position will involve the novel anticarcinogenic agents and will require a strong foundation and extensive experience in cancer biology and in the establishment of animal cancer models in mice. The second position will participate in studies of the membrane attack complex (MAC) and the homologous restriction protein CD59. Experience in molecular pharmacology is desirable. Both positions require a Ph.D., M.D., or equivalent, and extensive experience in the techniques of molecular and cell biology, immunology, immunohistochemistry, and histopathology. Experience in protein chemistry will be helpful.

Please send curriculum vitae, statement of research experience/interests, and names of three references to: **José A. Halperin, M.D., Laboratory for Membrane Transport, Harvard Medical School, 240 Longwood Avenue, C1-607, Boston, MA 02115.** E-mail: jhalperi@warren.med.harvard.edu.

POSTDOCTORAL POSITION available immediately to study motoneuron alterations in mouse models of muscle atrophy and amyotrophic lateral sclerosis. Background in electrophysiology preferred. Position is funded by NASA and NIH. Send curriculum vitae, description of research experience, and three references to: **Dennis Mosier, M.D., Ph.D., Department of Neurology, NB302, Baylor College of Medicine, Houston, TX 77030.** E-mail: dmosier@bcm.tmc.edu; website: <http://www.bcm.tmc.edu/neurol/drm.html>; FAX: 713-798-3853. *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

POSITIONS OPEN

MOLECULAR IMMUNOLOGISTS

The Laboratory of Immunogenetics, National Institute of Health is recruiting individuals for several **POSTDOCTORAL POSITIONS** for studies on natural killer cell recognition and signaling, antigen presentation by non-classical class I molecules, and the role of $\beta 1$ integrins in the immune response. Salary commensurate with credentials and research experience.

Qualified and interested candidates should send curriculum vitae and three letters of reference. For more information regarding these positions, contact:

John E. Coligan, Ph.D.
Laboratory of Immunogenetics
NIH-NIAID Twinbrook II Facility, Room 205
12441 Parklawn Drive
Rockville, MD 20852
Telephone: 301-496-8247
FAX: 301-402-0259
E-mail: joligan@atlas.niaid.nih.gov

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION CARDIAC HYPERTROPHY/DEVELOPMENT

The laboratory utilizes molecular techniques and transgenic mouse models, as well as knockouts, toward understanding cardiac development and hypertrophic disease. The applicant should have a Ph.D. or M.D. and experience with molecular techniques, tissue culture, or mouse genetics. Please mail or FAX your curriculum vitae and a one-page description of past research experience to: **Dr. Jeffrey D. Molkentin, Children's Hospital Medical Center, Division of Molecular Cardiovascular Biology, 3333 Burnet Avenue, Cincinnati, OH 45229-3039.** FAX: 513-636-5958. *Children's Hospital is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.*

ASSISTANT ATTENDING IN NUCLEAR MEDICINE

Memorial Sloan-Kettering Cancer Center is seeking a Board-certified Nuclear Medicine Physician for a position as Assistant Attending in Nuclear Medicine. The individual should have at least three years of experience in clinical nuclear medicine, demonstrated evidence of scholarly pursuits of clinical problems, and a commitment to teaching. PET experience is highly desirable. Please send inquiries to: **Steven M. Larson, M.D., Chief, Nuclear Medicine Service, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021.** *Memorial Sloan-Kettering Cancer Center is an Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available to study virus-receptor interactions. NIH-funded projects include structural studies of receptors for picornaviruses and adenoviruses, and studies of receptor function in virus entry, pathogenesis, and gene delivery (see: *Science* 275:1320; *J. Biol. Chem.* 272:28518). Applicants with experience in cellular and molecular biology, virology, or protein chemistry will be considered. Please send curriculum vitae and names of three references to: **Dr. Jeffrey Bergelson, Abramson 1202E, Children's Hospital of Philadelphia—University of Pennsylvania, 34th Street and Civic Center Boulevard, Philadelphia, PA 19104.** Telephone: 215-590-3771; FAX: 215-590-2025.

NIH POSTDOCTORAL POSITIONS

Postdoctoral positions are available to work on initiation of DNA replication in mammalian cells, and on gene expression at the beginning of mammalian development. Details are found at website: www.informatik.uni-rostock.de/HUM-MOLGEN/. Keyword is "DePamphilis." Send curriculum vitae and names of at least three references (with telephone, FAX, and/or e-mail numbers) to: **Melvin L. DePamphilis, Building 6, Room 3A02, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20892-2753.** FAX: 301-570-8797; e-mail: depamphm@box-d.nih.gov.

POSTDOCTORAL POSITION in developmental neurobiology available immediately to study activity-dependent synaptic refinement using transgenic mice. Experience in either extracellular recording *in vitro* or whole-cell recording in brain slices is preferred. Training will be provided in molecular biology, cell culture, mouse behavior, and genetics. Please forward curriculum vitae and the names of references to: **Dr. Y. Li, 3347 Beckman Institute, University of Illinois, 405 North Mathews Avenue, Urbana, IL 61801.** E-mail: y-li4@uiuc.edu.

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University College Dublin

An Coláiste Ollscoile Baile Átha Cliath

National Institute of Technology Management OPERATIONS DIRECTOR

Three-Year Contract Post (Ref: 142/98)



Applications are invited for the post of Operations Director. The National Institute of Technology Management has been established at UCD. It will be supported for its first three years by the European Social Fund. The Institute, which is a joint initiative between the Faculty of Commerce and the Faculty of Engineering & Architecture, has as its function to raise Irish Industry's capability to manage technological innovation.

The Institute will pursue its objective by teaching, research, the provision of input to national policy, and promoting the awareness and practice of technology management. The teaching programmes of the Institute commenced in January 1998 with a Master's degree in Technology Management. They will also include Diploma courses, together with shorter executive seminars and workshops.

The Operations Director will be responsible to the Director of the Institute, Professor Thomas Allen of MIT, for managing the day-to-day running of the Institute and of its programmes, and must be able to carry out the functions of the office with a high degree of independence.

The Operations Director will be responsible to the Institute Director for marketing, fund-raising, promotion of the Institute in Ireland and internationally, and for administering its finances, as well as for developing and supporting the academic activities of the Institute in association with academic programme managers.

To carry out the functions of the post effectively, the Operations Director will need a combination of academic and administrative qualifications and experience. Familiarity with curriculum development and management research methodology is assumed. The successful candidate should hold postgraduate qualifications in Engineering or Management, preferably at doctoral level, and should have at least five years' industrial experience.

Salary: IR£45,000 per annum

Applications consisting of a curriculum vitae (6 copies) and the names, contact numbers and addresses of three referees should be sent to the Personnel Office, University College Dublin, Belfield, Dublin 4, Ireland (quoting reference 142/98). Closing date: Not later than 5.00 p.m. on Friday, 4 September 1998.

UCD is an equal opportunities employer

University College Dublin - National University of Ireland, Dublin



GLOBAL OPPORTUNITIES



THE CHINESE UNIVERSITY OF HONG KONG



Faculty of Medicine

The University (founded 1963) offers comprehensive programmes up to PhD level, with student enrolment in 1997-98 standing over 12,000. The Faculty of Medicine offers undergraduate and postgraduate programmes in Medicine, Nursing and Pharmacy. The MBChB programme admits 160 students annually. Clinical courses are taught at the Faculty's 1,450-bed teaching hospital, the Prince of Wales Hospital (which is one of the regional hospitals in Hong Kong) and at the Lek Yuen Health Centre. Applications are invited for the following post:

Department of Surgery

Postdoctoral Fellow

(Ref: 98/064(665)/2) (closing date: 29 August 1998)

Applicants should have a PhD degree with a research background in molecular biology. Experience in protein chemistry will be an advantage. The appointee is expected to study the molecular genetics of diseases. Appointment will be made on a one-year contract. The appointee is expected to assume duty in October 1998 or as soon as possible thereafter. [Note: The University reserves the right not to fill the post or to fill the post by invitation.]

Annual Salary and Fringe Benefits: Postdoctoral Fellow: Commencing HK\$324,300 (approximate exchange rate in July 1998: £1=HK\$12.88; US\$1=HK\$7.8). Starting salary will be commensurate with qualifications and experience. Benefits include annual leave and out-patient medical care. Further information about the University and the general terms of service for teaching appointees is available on our World Wide Web homepage <<http://www.cuhk.edu.hk>>.

Application Procedure: Please send full resume, copies of academic credentials, a publication list and/or abstracts of selected published papers, together with names and addresses (fax numbers/e-mail addresses as well, if available) of three referees to the Personnel Office, The Chinese University of Hong Kong, Shatin, N.T. Hong Kong (fax: (852) 2603 6852) on or before **29 August 1998**. Please quote the reference number and mark "Application" on cover.

POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS

NIEHS, NIH has two Postdoctoral positions available starting approximately October 1, 1998, to investigate structure-activity requirements for substrate specificity of the CYP2C enzymes using cDNA expression systems in bacteria. Technical experience in molecular genetics and protein biochemistry is needed in several of the following areas, including site-directed mutagenesis and construction of chimeras, use of cDNA expression systems such as bacteria, cloning techniques, DNA sequencing, and protein biochemistry. Experience with molecular modeling techniques and/or CYP enzymes beneficial. Requires a Ph.D. in biochemistry, molecular genetics, microbial genetics, or related field. Applicant must have less than five years of postdoctoral experience. The initial appointment is renewable up to five years with a starting salary of at least \$26,500 depending on experience. Applicants should submit a curriculum vitae and three references to: **Joyce Goldstein (A3-02), NIEHS, P.O. Box 1233, Research Triangle Park, NC 27709. Telephone: 919-541-4495; FAX: 919-541-3647; e-mail: goldst1@niehs.nih.gov.**

POSTDOCTORAL ASSISTANT

Ph.D. with background in protein metabolism and molecular biology. Research is focused on the influence of sepsis and trauma on protein metabolism in skeletal muscle. In particular, the molecular regulation of sepsis-induced muscle proteolysis is being studied. Applicant should have knowledge and experience in common techniques in molecular biology such as Northern and Western blot, EMSA, PCR, and should also have experience in animal experiments and cell culture techniques. Ability to work independently, write papers, and participate in writing of grants. Send résumé to: **Business Manager, Department of Surgery, P.O. Box 670558, Cincinnati, OH 45267-0558.**

POSTDOCTORAL POSITION

The American Red Cross is currently seeking an individual to fill a Postdoctoral position available in Rockville, Maryland.

Study the structure-function relationship of the human coagulation factor VIII. The project will require expression of recombinant fVIII with point mutations and substitutions. Requires strong and documented experience in molecular biology.

Applicants should submit their curriculum vitae, summary of research experience, and names of three references to: **Dr. Eugene Saenko, Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855. FAX: 301-738-0794; e-mail: saenko@usa.redcross.org. Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.**

POSTDOCTORAL RESEARCH FELLOWSHIP

in the Department of Pathology, Johns Hopkins University School of Medicine, Baltimore. Requirements: Ph.D. or M.D.-Ph.D. with experience in cellular immunology and with tissue culture and molecular biology techniques. Project: under the supervision of **Dr. Richard Roden**, the Fellow will identify novel molecular targets for use in early detection and vaccines for immunotherapy of gynecologic cancer. Salary level based on experience following NIH stipend guidelines. Position available October 1, 1998. Deadline for applications September 11, 1998. Send résumé and three letters of recommendation to: **Dr. Richard Roden, c/o Room 1D28, Building 36, 9000 Rockville Pike, Bethesda, MD 20892-4040. E-mail: rroden@helix.nih.gov. Include e-mail addresses of three references.**

POSTDOCTORAL POSITION available immediately for three years to study the cellular regulation of topoisomerase II. Project involves identifying the functional role of site-specific phosphorylation of topoisomerase II α and topoisomerase II β in cell differentiation and antitumor drug resistance. Applicants should have Ph.D. in biochemistry, cell biology, or pharmacology. Salary is competitive and commensurate with experience. Submit curriculum vitae and three letters of reference to: **Ram Ganapathi, Cancer Center—M38, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-444-7115; e-mail: ganapar@cc.ccf.org. Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSITIONS OPEN

POSTDOCTORAL POSITION

Postdoctoral positions are available at the University of Florida Gene Therapy Center for individuals with experience in nucleic acid enzymology, virology, vector development, animal models, neurobiology, gene expression, or gene therapy. The applicant will have the opportunity to work on one of several funded projects involving basic studies of adeno-associated virus DNA replication, integration, or transcription, or the use of AAV as a vector for cancer or central nervous system gene therapy. The applicant will also have an opportunity to interact with other faculty in the Gene Therapy Center who are working on diverse gene therapy applications that include cystic fibrosis, AIDS, cancer, hypertension, spinal cord lesions, Alzheimer's disease, inflammatory diseases, retinal diseases, as well as the development of novel gene therapy vectors. The applicant should have an M.D. or Ph.D. degree. Please send résumé and the names of three references (preferably via FAX or e-mail) to:

**Nicholas Muzyczka
Gene Therapy Center
University of Florida
Box 100266 JHMHC
Gainesville, FL 32610
FAX: 352-392-5914**

E-mail: muzyczka@medmicro.med.ufl.edu

Application deadline is November 1, 1998, with a flexible start date.

Equal Opportunity/Affirmative Action Institution.

A **POSTDOCTORAL POSITION** is available for ongoing research on the molecular mechanisms of gene regulation by Epstein-Barr virus. Projects include the study of lytic gene expression, transcriptional gene regulation, and control of nuclear export. A Ph.D. or M.D. and experience in molecular biology and virology are required. Applicants should send a curriculum vitae, summary of research interests/career goals and names of three references to: **Sankar Swaminathan, M.D., Sealy Center for Oncology and Hematology, University of Texas Medical Branch, MRB 9.104, 301 University Boulevard, Galveston, TX 77555-1048. FAX: 409-747-1938; e-mail: sswamina@utmb.edu. Equal Opportunity/Affirmative Action Employer/Minorities/Females/Disabled/Veterans. UTMB hires only employees authorized to work in the United States.**

POSTDOCTORAL POSITIONS PLANT MOLECULAR BIOLOGY

Two Postdoctoral positions are available immediately to study the molecular biology of photosynthetic acclimation to elevated atmospheric CO₂. Research will examine the molecular control of photosynthetic gene expression at elevated CO₂ via carbohydrate signaling. Experience in molecular techniques is essential: biochemistry and plant biology experience helpful. Send curriculum vitae, statement of research experience/goals, and three reference letters to: **Dr. Jeff Seemann, Department of Biochemistry, University of Nevada, Reno, NV 89557-0014. E-mail: seemann@scs.unr.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE position in the Department of Physiology and Biophysics, Wright State University School of Medicine. Doctorate and research experience required. Conduct experiments on cellular and molecular mechanisms of intracellular ion and volume regulation in isolated neurons and glial cells. Experience with fluorescence imaging microscopy, computerized data analysis, and immunocytochemistry desirable. Send résumé, reprints, and the names of three references to: **Dr. Robert Putnam or Dr. F. Javier Alvarez-Leefmans, Department of Physiology and Biophysics, Wright State University School of Medicine, Dayton, OH 45435. For more information: website: rputnam@desire.wright.edu; e-mail: fleefman@discover.wright.edu. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH POSITION. Position is available at the Medical University of South Carolina's Hollings Cancer Center, to study the genetic aspects of antifolate resistance in childhood leukemia. The successful candidate will join an NIH-supported laboratory and a reference laboratory for major cooperative group. Ph.D. and experience in molecular biology techniques essential. Send curriculum vitae with names of three references to: **Dr. Julio Barredo, Department of Pediatrics and Biochemistry and Molecular Biology, Medical University of South Carolina Children's Hospital, Charleston, SC 29425. FAX: 803-792-8871; e-mail: barredjc@musc.edu.**

POSITIONS OPEN

DEPARTMENT HEAD FISHERY AND WILDLIFE BIOLOGY COLORADO STATE UNIVERSITY

Seeking accomplished individual to provide leadership for a department of 20 faculty with diverse interests in biology and conservation of fish, wildlife, and associated resources. Qualifications include earned Ph.D.; academic experience in teaching, research, and service in the field; and leadership in mentoring faculty and working with external natural resource agencies and publics. Submit by 15 September 1998 for full consideration. The position will begin January 1, 1999. Request full announcement from: **Dr. R. Dennis Child, Fishery and Wildlife Biology Search Committee Chair, College of Natural Resources, 101 Natural Resources Building, Colorado State University, Ft. Collins, CO 80523-1401. Telephone: 970-491-6677; FAX: 970-491-2339; e-mail: dennisc@pica.cnr.colostate.edu; website: <http://www.cnr.colostate.edu/FWB/depthead.html>. Colorado State University is an Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS are available in the Section on Molecular Structure and Function of the National Eye Institute, Bethesda, Maryland. Projects are clustered around an informatics-based approach to the molecular and structural biology of the eye and include expressed sequence tag (EST) and microarray analyses, structure/function prediction, and World Wide Web-based organization of data. This will be carried out in close collaboration with structural biology groups at the University of London with the aim of producing an integrated view of the molecular constituents of the eye. Candidates should have strong backgrounds in molecular biology, molecular genetics, or structural biology with computer skills. Only U.S. citizens or permanent residents may apply. Applications should be sent to: **Graeme Wistow, Ph.D., Chief of the Section on Molecular Structure and Function, National Eye Institute, Building 6, Room 331, National Institutes of Health, Bethesda, MD 20892-2740. E-mail attachments to e-mail: graeme@helix.nih.gov.**

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POSTDOCTORAL POSITIONS IN MOLECULAR ONCOLOGY

Two Postdoctoral positions are available to study the tumor suppressor p53-related or -independent cellular responses to genotoxic stress. Emphasis is being placed on defining the components of the pathways involved in the control of cell cycle checkpoints, apoptosis, and on the regulation of stress-inducible genes. Applicants should have experience in cellular/molecular biology and/or biochemistry. Send a curriculum vitae and three names of references to: **Dr. Qimin Zhan, Department of Radiation Oncology, The University of Pittsburgh School of Medicine, A314-PUH, 200 Lothrop Street, Pittsburgh, PA 15213.**

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POSTDOCTORAL POSITION

Postdoctoral position available immediately to study the molecular and cellular physiology of Ca-dependent K channels. Molecular biology, biochemical, immunocytochemical, and electrophysiological techniques are used to unravel the mechanisms of channel function, their coupling to cell-signaling pathways, and how sexual hormones and aging affect their expression. Ph.D. in physiology, biochemistry, or molecular biology. Preferred background: electrophysiology and molecular biology. Send curriculum vitae and three references to: **Dr. L. Toro, UCLA, Department of Anesthesiology, BH-612 CHS, Box 951778, Los Angeles, CA 90095-1778. FAX: 310-825-6649.**

A **POSTDOCTORAL POSITION** is available immediately to study the role of autocrine growth factor proliferation in leukemia and solid tumors. *In vitro* and *in vivo* murine models in experimental therapeutics are utilized for these studies. Applicants should have a strong background in molecular biology, tissue culture, and biochemical techniques including electrophoresis and chromatography. Send curriculum vitae and letter of interest to: **Dr. Michael Doukas, Chief, Hematology/Oncology Section (111-E), VA Medical Center, University of Kentucky and Veterans Affairs Medical Centers, 2250 Leestown Road, Lexington, KY 40511-1093. FAX: 606-281-4939; e-mail: madouk0@pop.uky.edu.**

POSITIONS OPEN

MOLECULAR ONCOLOGY POSTDOCTORAL RESEARCH FELLOW

A position is available immediately at the American Health Foundation, an NCI-funded Cancer Center dedicated to cancer prevention, for a Postdoctoral Research Fellow. The successful candidate will join a multidisciplinary interactive research group studying the molecular biology of oral carcinogenesis with emphasis on oxidative stress and its effects on signal transduction and cell cycle regulation, and the mechanisms of antioxidants as chemopreventive agents. The ideal appointee would have expertise in the general areas of molecular biology, gene regulation, and signal transduction through oxidative mechanisms. Inquiries may be made to: **Dr. Tony Albino, Telephone: 914-789-7158** or **Dr. John Richie, Telephone: 914-789-7156**. Applicants should send curriculum vitae and two letters of recommendation to: **The American Health Foundation, 1 Dana Road, Valhalla, NY 10595. FAX: 914-592-6317; e-mail: talbino@aol.com or richie@nyc.edu.**

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SENIOR RESEARCH SCIENTIST POSITION CYTOCHROME P450 MECHANISM OF OXYGEN ACTIVATION University of Michigan

POSTDOCTORAL POSITION now available for Ph.D. in chemistry, or closely related field to collaborate on mechanistic aspects of P450 enzymes. Opportunity to work with a diverse group of physical and mechanistic Enzymologists. Desired: strong chemical background, previous postdoctoral research experience with publications, familiarity with analytical techniques, and interest in mechanism of enzyme action. Title of **LECTURER** also possible for qualified candidates. Send curriculum vitae with reference names and addresses to: **Professor M. J. Coon, Department of Biological Chemistry, University of Michigan Medical School, 1301 East Catherine, Ann Arbor, MI 48109-0606. Telephone: 734-764-9132; FAX: 734-763-4581; e-mail: mjcoon@umich.edu.**

RESEARCH POSITION IN PHARMACOLOGY

The Department of Pharmacology at Baylor College of Medicine is seeking applications for a **RESEARCH ASSOCIATE** or **POSTDOCTORAL FELLOW** with experience in modern techniques or molecular biology and/or biochemistry to undertake a research project on characterization and functional analysis of a nucleolar RNA helicase as a chemotherapeutic target. The initial stipend is dependent on training and experience. The Department of Pharmacology has a long-standing program in molecular biology, protein chemistry, and RNA structure and function. Applications should be sent to: **Harris Busch, M.D., Ph.D., Department of Pharmacology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.**

POSTDOCTORAL POSITION AVAILABLE IMMEDIATELY BIOCHEMISTRY/MOLECULAR BIOLOGY

An NIH-funded Postdoctoral position is available immediately to study the proton-translocating ATPase of *E. coli*. The major areas of research include energy-coupling, transmembrane proton movement, and genetic control of ATPase synthesis and assembly. Additional research areas include studying the anticancer mechanism of differentiating agents. Salary range is \$25,000 to \$30,000 depending on experience. For more information contact: **Dr. William Brusilow, Department of Biochemistry and Molecular Biology, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201. Telephone: 313-577-6659; e-mail: wbrusilo@med.wayne.edu.**

POSTDOCTORAL POSITION available to study the molecular mechanism of axonal guidance. Work in our laboratory is directed toward the identification and analysis of growth factors and receptors that regulate the formation of axonal pathways. Candidates with experience in molecular biology are encouraged to send their curriculum vitae, statement of research interests, and the names of three references to: **Dr. Renping Zhou, Laboratory for Cancer Research, College of Pharmacy, Rutgers-The State University of New Jersey, 164 Frelinghuysen Road, Piscataway, NJ 08854-8020. FAX: 732-445-0687; e-mail: rzhou@rci.rutgers.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOW

Department of Botany, College of Natural Sciences. Duty location will be Department of Botany and Kewalo Marine Laboratory. Full-time federal funds, beginning approximately December 1, 1998, for one year, pending funding; renewal dependent upon availability of funds. Duties: marine ecology, algal-invertebrate interactions. Responsible for overseeing both laboratory and field experiments in Pearl Harbor to test antifouling coatings, report preparation, World Wide Web-based communication with cooperating laboratories, and pursuing personal research interest relative to tropical fouling communities. Minimum qualifications: Ph.D. in biological sciences with an emphasis in marine ecology, appropriate research experience in both laboratory and field studies with an emphasis on experimental design and data analysis. Computer skills are expected. Annual stipend: \$27,322 (minimum). Send application including résumé, reprints, and three letters of recommendation to: **Celia M. Smith, Department of Botany, University of Hawai'i, 3190 Maile Way, Honolulu, HI 96822. Inquiries: Telephone: 808-956-8369; FAX: 808-956-3923; e-mail: celia@hawaii.edu. Closing date: September 30, 1998.**

TWO POSTDOCTORAL POSITIONS AT HARVARD MEDICAL SCHOOL/BRIGHAM AND WOMEN'S HOSPITAL

Available immediately to study the role of novel membrane proteins in the regulation of epithelium function and pathogenesis of cystic diseases. Studies involve the determination of structure-function relationships and interactions with other signaling proteins and extracellular ligands. Experience in cellular and molecular biology is required. Some familiarity with transgenic and/or knock-out technology is desirable. Please send curriculum vitae to: **Dr. J. Zhou, Harvard Institutes of Medicine, Room 520, 4 Blackfan Circle, Boston, MA 02115. Telephone: 617-525-5860; FAX: 617-525-5830; e-mail: zhoul@rics.bwh.harvard.edu. Women and minorities are encouraged to apply. Equal Opportunity/Affirmative Action Employer.**

BLOOD COAGULATION ENZYMOLOGY VANDERBILT UNIVERSITY

A **POSTDOCTORAL RESEARCH** position is available to investigate the mechanisms and regulation of blood coagulation and fibrinolysis reactions with protein chemistry, enzyme kinetics, and fluorescence spectroscopy approaches. Interested individuals who are recent Ph.D. degree graduates in biochemistry, biophysics, chemistry, or biology should send a copy of their curriculum vitae and arrange for two letters of recommendation to be sent to: **Dr. Paul E. Bock, Vanderbilt University School of Medicine, Department of Pathology, C-3321A Medical Center North, Nashville, TN 37232-2561. Support is only available for U.S. citizens and permanent residents.**

A **POSTDOCTORAL POSITION** is available immediately to study neural regulation of catecholamine gene expression. Experience with molecular biological and cellular techniques is desirable. Please send résumé and names of three references to: **Marian Evinger, Ph.D., Department of Pediatrics, State University at Stony Brook, Stony Brook, NY 11794-8111. Affirmative Action/Equal Opportunity Employer.**

EUROPEAN OPPORTUNITIES

POSTDOCTORAL FELLOW UNIVERSITY GHENT Department of Respiratory Diseases

We are seeking an experienced **CELL BIOLOGIST** with a strong background in immunology. The candidate should have experience in the field of cell-cell and cell-matrix interaction, both in human and murine systems. The ideal candidate should also be knowledgeable in airway physiology.

The candidate will conduct a research project focusing on the pathophysiology of chronic asthma. The duration of the project is at least five years.

Applications with curriculum vitae should be addressed to:

**Romain A. Pauwels, M.D., Ph.D.
University Hospital Ghent
Department of Respiratory Diseases
De Pintelaan 185
Ghent B 9000 Belgium
FAX: +32-92402341**

POSITIONS OPEN

An NIH **POSTDOCTORAL FELLOW** position is now available in the Laboratory of Molecular Biology and can provide an opportunity for a highly capable individual to join the NIH community and to explore the biochemical mechanisms of HIV pathogenesis. We are presently assessing the biochemical activity of NIV Nef and its capacity to modify cellular function. Experience with molecular biology of cellular signal pathways and gene expression would be an asset. Interested candidates should forward their curriculum vitae and the names of three references to: **Jon W. Marsh, Chief, Unit on Lymphocyte Function, Laboratory of Molecular Biology, National Institute of Mental Health, Building 36, Room 1B08, 36 Convent Drive MSC 4034, Bethesda, MD 20892-4034. E-mail: jon@codon.nih.gov. NIH is an Equal Opportunity Employer.**

COURSES & TRAINING

POSTDOCTORAL AWARDS IN IMMUNOLOGY LOYOLA UNIVERSITY CHICAGO Stritch School of Medicine

NIH training grant in experimental immunology will support two- or three-year training awards in the following areas:

B lymphocyte development and generation of antibody repertoire: **Katherine L. Knight.**

B lymphocyte development and aging: **Pamela L. Witte.**

T lymphocyte activation and differentiation: **Thomas M. Ellis.**

Human thymic epithelial cells in T cell development: **Phong T. Le.**

T lymphocyte response to viral infections: **Daniel G. Quinn.**

Mechanisms of virus entry into mammalian cells: **Thomas M. Gallagher.**

Cancer immunotherapy: **W. Martin Kast.**

Host response to fungal infections: **Herbert L. Mathews.**

Immunology of skin disorders: **Brian J. Nickoloff.**

Neuromodulation of the immune response: **Virginia M. Sanders.**

Immune cells in wound healing: **Luisa A. DiPietro.**

Mechanisms of cell senescence and leukemogenesis: **Manuel O. Diaz.**

In addition to providing an invigorating and cooperative research environment, the program emphasizes an interdisciplinary approach. Trainees are provided regular opportunities to present the results of their research.

Please send curriculum vitae and names of three references to: **Dr. Katherine L. Knight, Department of Microbiology and Immunology, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. Applicants must be citizens or permanent residents of the United States. For more information see Training Grant at website: <http://www.meddean.luc.edu/lumen/DeptWebs/microbio/micro.htm>.**

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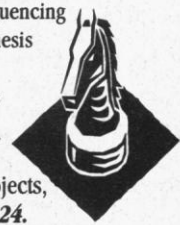
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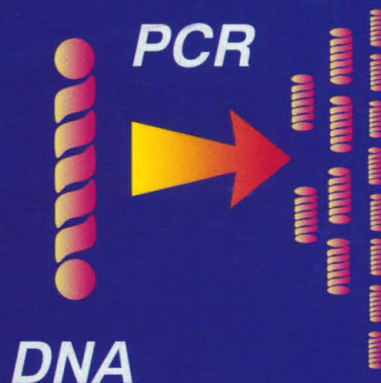
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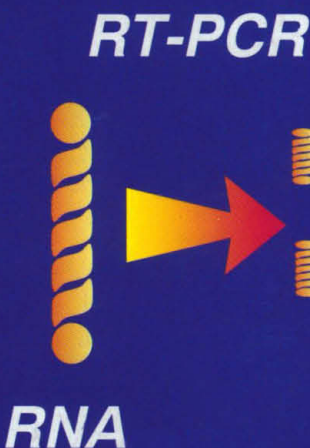
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